TETRA TECH

November 30, 2016

Mr. Todd Davis
Site Assessment Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

Subject: **Phase I Targeted Brownfields Assessment**
Former Health Emergency HAZMAT Site, Kansas City, Missouri
U.S. EPA Region 7, START 4, Contract No. EP S7 13 06, Task Order No. 0002.019.020
Task Monitor: Todd Davis, Site Assessment Team Leader

Dear Mr. Davis:

Tetra Tech, Inc. is submitting Phase I Targeted Brownfields Assessment (TBA) report regarding the former Health Emergency HAZMAT Site (HEHS) within KCMO Municipal Farms in Kansas City, Missouri. The goal of the TBA is to identify recognized environmental conditions associated with the subject property. This TBA was completed in accordance with industry standard practice for Phase I Environmental Site Assessments.

If you have any questions or comments regarding this submittal, please call the Project Manager at (816) 412-1760.

Sincerely,

for Christin Russell
START Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Debra Dorsey, START Project Officer (cover letter only)

415 Oak Street, Kansas City, MO 64106
Tel 816.412.1741 Fax 816.410.1748 www.tetratech.com

PHASE I TARGETED BROWNFIELDS ASSESSMENT

FORMER HEHS SITE WITHIN KCMO MUNICIPAL FARMS
8100 OZARK ROAD, KANSAS CITY, MISSOURI

Superfund Technical Assessment and Response Team (START) 4

Contract No. EP-S7-13-06, Task Order No. 0002.019.020

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

November 30, 2016

Prepared By:

Tetra Tech, Inc.
415 Oak Street
Kansas City, Missouri 64106
(816) 412-1741

CONTENTS

CONTENTS (Continued)

CONTENTS (Continued)

APPENDICES

TABLES

EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of the former Health Emergency HAZMAT Site (HEHS) at 8100 Ozark Road in Kansas City, Jackson County, Missouri (subject property). The City of Kansas City, Missouri (City) requested assessment assistance under the TBA program from EPA Region 7 for assessment prior to redevelopment of the former HEHS. START generally conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) designation E 1527-13, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

Purposes of the TBA were to identify recognized environmental conditions (REC), historical RECs (HREC), and controlled RECs (CREC) associated with the subject property, and to identify the nature of contamination and risks posed by the contamination, if present.

The subject property encompasses approximately 18.6-acres of land currently vacant except for several concrete slabs and some roadways associated with previous development.

This Phase I TBA is based primarily on a review of available public records that led to the following findings and opinions, including identification of RECs to the subject property:

- The subject property was listed in the Resource Conservation and Recovery Act (RCRA)-Conditionally Exempt Small Quantity Generator (CESQG) database for an incident reported in June 2005. Limited information is in the environmental database. This database includes selective information on sites that generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA.

- Review of city directories identified the following facilities at the subject property address of 8100 Ozark Road: the City Municipal Correction Institution (MCI), Women's Reformatory, and Kansas City Municipal Farm. According to the environmental database search, the City MCI housed a tank that contained a petroleum product. No spill reports were identified during the environmental database search. The City MCI, Women's Reformatory, and Kansas City Municipal Farm likely used pesticides and other chemicals during groundskeeping activities. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the target property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. Storage of petroleum products and possible use of pesticides and other chemicals during groundskeeping activities do not pose a REC to the subject property.

- Based on interviews and historical documentation, the following were identified in close proximity to the subject property: City of Kansas City, Missouri, MCI, and National Guard Armory. Based on locations of these facilities crossgradient of the subject property, they do not pose a REC to the subject property.

- According to a previous Phase I ESA report regarding the HEHS (Tetra Tech EM Inc. 2011a), the subject property has been used for agricultural and office purposes. The HEHS was used in the past for temporary waste storage. Observations and data from the investigation indicated that unintentional releases of waste materials within the HEHS likely occurred in the past. A removal occurred at the HEHS site, and confirmation sampling occurred after the removal to ensure that all contamination had been removed. However the confirmation sampling did not occur on the entirety of the property; therefore, previous activities pose a REC to the subject property.

- Environmental Advisors and Engineers, Inc. (EAE) prepared an Area-Wide Brownfields Plan (AWBP) for the Municipal Farm properties for facilitation of sustainable reuse and development of the area (EAE 2012). Based on available information, possibly present contaminants within these conceptual land use plan (CLUP) areas covering the subject property are primarily petroleum-related contaminants, herbicides, pesticides, rodenticides, lead, and hazardous waste chemicals based on former uses as a correctional institution and canning factory, agricultural use, and other Municipal Farm activities.

Recommendations

START recommends a Phase II TBA of the subject property to confirm or eliminate the RECs identified in the Phase I investigation. The Phase II TBA should include collection of surface and subsurface soil samples, within areas of formerly demolished buildings, for laboratory analysis. The soil samples should be analyzed for the eight RCRA metals, warfarin, and chlorinated pesticides.

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of the former Health Emergency HAZMAT Site (HEHS) at 8100 Ozark Road in Kansas City, Jackson County, Missouri (subject property). The City of Kansas City, Missouri (City), requested assessment assistance under the TBA program from EPA Region 7 to assess the current environmental condition at the subject property prior to planned future development.

START conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) designation E 1527-13, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (Title 40 *Code of Federal Regulations* [40 CFR] Part 312). For the purpose of this TBA, the *users* are defined as the EPA and the City (ASTM 2013 [Section 3.2.98]). EPA tasked START to conduct a TBA of the subject property to identify recognized environmental conditions (REC) associated with the subject property, and to identify the nature of contamination and the risks posed by the contamination, if present (see Appendix A).

For the purpose of this TBA, the subject property is defined as an approximately 18.6-acre area that includes the footprint of the former HEHS.

1.1 PURPOSE

The goal of this TBA is to identify RECs to the subject property. A REC is presence or likely presence of any hazardous substance or petroleum product on a subject property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substance into structures on the subject property or into the ground, groundwater, or surface water of the subject property. The term includes hazardous substances, even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (ASTM 2013 [Section 1.1.1]). An HREC is a past release of any hazardous substance that has occurred in connection with the subject property and has been addressed to the satisfaction of the applicable regulatory authority, or has met unrestricted use criteria established by a regulatory authority without subjecting the subject property to any required controls (ASTM 2013 [Section 3.2.42]). A CREC is a REC resulting from a past release of hazardous substances

that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (ASTM 2013 [Section 3.2.18]).

This TBA is intended to satisfy one of the requirements for the innocent landowner defense, the contiguous property exemption, and the bona fide prospective purchaser exemption to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the subject property consistent with good customary practice," as defined in Title 42 *U.S. Code* Section 9601 (35)(B).

1.2 SCOPE OF WORK

EPA developed a Statement of Work (SOW) for TBA activities to occur at the former HEHS. The SOW, based on ASTM designation E1527-13, was to identify RECs, HRECs, and CRECs to the subject property. Phase I TBAs typically are conducted in a four-phase process, including: (1) records review; (2) site reconnaissance; (3) interviews with current and previous owners and occupants of the subject property, adjacent property owners and occupants, and local government agencies; and (4) preparation of a report. The EPA SOW is included as Appendix A.

Any items listed in the ASTM standard that the report does not specifically identify as present can be assumed not present within the subject property or within such distance to the subject property as to be of potential concern to the subject property. Any item mentioned but not specifically identified as a REC, HREC, or CREC can be assumed not a REC, HREC, or CREC.

1.3 SIGNIFICANT ASSUMPTIONS

The following are beyond the scope of this evaluation: sampling and analysis for radon in indoor air, and for lead in drinking water; evaluations of indoor and/or outdoor air quality, regulatory compliance, industrial hygiene, and noise impacts; and identification of geological or geotechnical hazards.

1.4 DEVIATIONS

Deletions or deviations from ASTM E 1527-13 or the SOW are as follows. For each deviation noted, the START Environmental Professional (EP) has conducted an analysis of the data gaps or failures, and impacts of these on START's ability to render an opinion regarding conditions indicative of releases or threatened releases of petroleum products or hazardous substances.

- Time gaps of more than 5 years were noted in available historical information. Based on consistent, observed use of the subject property as predominantly farmland, with the men's reformatory and stables and other associated farm structures cited in all reviewed historical information, the EP believes that presence of time gaps does not impact START's ability to render an opinion regarding RECs.

- Interviews with previous land owners were not conducted. Based on consistent, observed use of the subject property, the EP believes information likely to be obtained from past owners, operators, or occupants of the subject property likely would not be additional to that obtained from other resources.

- No interviews with adjacent property owners or occupants were conducted. ASTM Practice E 1527-13 does not require interviews with adjacent property owners unless a property has been abandoned and potential unauthorized uses or evidence of uncontrolled access to the abandoned property is evident. The EP believes that information obtained from other adjacent property owners or occupants likely would not be additional to that obtained from other sources.

1.5 LIMITATIONS AND EXCEPTIONS

This report was based partially on information supplied to START from outside sources and on other information available in the public domain. Conclusions and opinions reported herein are based on the information START obtained in compiling the report. This information is on file at START's office in Kansas City, Missouri. START makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. START does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of the client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

1.6 SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions for the TBA.

1.7 STATEMENT OF USER RELIANCE

START is not required to verify independently the information provided to it by the user or gathered throughout the course of this TBA. For this TBA, EPA Region 7 and the City may rely on information provided unless knowledge is possessed that certain information is incorrect based on additional information obtained during the TBA or otherwise known by the person preparing this report.

2.0 SITE DESCRIPTION

This section briefly describes the subject property and the physical setting based on information obtained from EPA Region 7 and the City, and a records review prior to the site reconnaissance. Observations during the site reconnaissance regarding current land use of the subject property and adjoining properties are conveyed in Section 4.0.

2.1 SITE LOCATION AND LEGAL DESCRIPTION

For the purposes of the TBA, the subject property is an approximately 18.6-acre tract of land at 8100 Ozark Road in Kansas City, Jackson County, Missouri (see Figure 1, Appendix B). The subject property is depicted on the U.S. Geological Survey (USGS) 7.5-minute series Independence, Missouri, topographic quadrangle map (USGS 1975) in northwest ¼, Section 30, Township 49 north, Range 32 west (see Figure 1, Appendix B). Coordinates at the approximate center of the subject property are 39.042777 north latitude and 94.494349 west longitude (Google Earth 2012).

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The subject property is part of a lightly developed area with an adjoining residential neighborhood in Kansas City, Missouri. The subject property is bounded north by vacant wooded land and an animal shelter, with Raytown Road beyond; east by trees, with Ozark Road beyond; south by a National Guard facility and Ozark Road, with residential development beyond; west by vacant wooded land, with Eastern Avenue beyond; and northwest by a Kansas City, Missouri (KCMO) Police Heliport and woods (see Figure 2, Appendix B).

2.3 CURRENT AND PAST USES OF THE SITE

The subject property is currently vacant land except for some concrete slabs and roadways associated with previous development. The HEHS was used by the City until the 1990s and was demolished in 1998 (Environmental Advisors and Engineers, Inc. [EAE] 2012).

The former HEHS was on 18.6 acres of land on the north side of Ozark Road. Prior to 1964, on-site buildings were used for livestock feeding operations associated with the Municipal Farm. From the mid 1960s to 1972, the HEHS location was used for administration purposes by the KCMO Health Department. From 1972 to 1980, as part of the Public Works Department, the HEHS blended and packaged rat bait for a federal rodenticide program. From 1983 to 1993, the HEHS location was used for temporary storage of waste chemicals such as rat poison, waste chemicals from school laboratories, and

other unknown materials. In March 1998, the buildings of the HEHS and concrete pad were demolished (EAE 2012).

2.4 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

The 18,6-acre subject property is vacant land except for some concrete slabs and roadways associated with previous development.

2.5 CURRENT AND PAST USES OF ADJOINING/SURROUNDING PROPERTIES

Currently, the subject property is bounded north by vacant wooded land and an animal shelter, with Raytown Road beyond; east by trees, with Ozark Road beyond; south by a National Guard facility and Ozark Road, with residential development beyond; west by vacant wooded land, with Eastern Avenue beyond; and northwest by a Kansas City, Missouri (KCMO) Police Heliport and woods (see Figure 2, Appendix B).

A review of historical documents indicates that the area surrounding the subject property has been used for a variety of residential and municipal purposes (see Section 6.2 for detailed information).

Possibility of past hazardous material or hazardous waste releases from neighboring commercial facilities poses a REC to the subject property. See Section 6 for additional details regarding neighboring commercial and industrial facilities.

2.6 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS

The following sections describe the environmental setting of the subject property and surrounding area.

2.6.1 Topography

Jackson County is within the west-central part of Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area of the Central Feed Grains and Livestock Region of the United States. The Missouri River is the northern boundary of the County. The northern part of the County is the nearly level flood plain of the Missouri River. Adjacent to the flood plain and south are moderately sloping to steep, loess-covered bluffs and hills. The rest of the County consists of gently sloping to moderately sloping uplands and flood plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their tributaries (U.S. Department of Agriculture [USDA] 1984).

Elevations in Jackson County range from 1,105 feet above mean sea level (amsl) on the divide in the south-central part of the County to 690 feet amsl at normal water level on the Missouri River at the county line on the eastern side of the County (USDA 1984). Based on a review of the USGS 7.5-minute series Independence, Missouri, topographic quadrangle map (USGS 1975), the subject property ranges from approximately 886 to 920 feet amsl. The subject property appears gently sloping on the north and east portion of the site. Bedrock in this part of the Kansas City area dips approximately 6 feet per mile to the northwest. Area topography slopes north and northeast toward Round Grove Creek.

2.6.2 Geologic Setting

Soils on the subject property consist of Knox-Urban Land complex and Knox silty clay loam. The typical soil profile of Knox-Urban Land complex is 0 to 6 inches silt loam, 6 to 46 inches silty clay loam, and 46 to 80 inches silt loam. The typical soil profile of Knox silty clay loam is 0 to 4 inches silt loam, 4 to 54 inches silty clay loam, and 54 to 60 inches silt loam (USDA 2016).

The upper bedrock formation in the vicinity of the subject property consists of the middle Kansas City Group, Missourian Series, Pennsylvania System, which is approximately 215 feet. Underlying the Kansas City Group are the shales of the Pleasanton Group. Underlying the Pleasanton Group are predominantly shales of the Marmaton and Cherokee Groups of the Desmoinesian Series (Missouri Department of Natural Resources [MDNR] 1997). Maximum thicknesses of these groups are as follows: Kansas City Group, 135 feet; Pleasanton Group, 150 feet; and Marmaton Group, 190 feet (Stohr, St. Ivany, and Williams, 1981).

2.6.3 Hydrogeology

The low permeability of the Pennsylvanian Bedrock beneath the site impedes groundwater movement both laterally and vertically. Due to this flow impediment, little opportunity exists for groundwater recharge and discharge (Burns & McDonnell Waste Consultants Inc. 1999). Water for the subject property is supplied by the KCMO Water Department, and is obtained from the Missouri River and groundwater sources near the river.

Mississippian and Pennsylvania formations form the bedrock aquifers in this region. These, and older bedrock aquifers exhibit leaky artesian conditions; however, water table conditions exist near the border of the Ozark Plateaus. Water yields vary from 25 to a few hundred gpm. Water quality is highest near the eastern border of the Osage Plains, and decreases toward the northwest, with increasing

concentrations of chlorides, sodium, and other dissolved solids. Recharge is by regional water movement from the Ozark Plateaus and by limited infiltration of precipitation (Stohr, St. Ivany, and Williams 1981).

Water in numerous drainageways that dissect the bedrock in this area flows into Round Creek Grove. The subject property is on a hilltop that slopes downward to the north-northeast, and shallow groundwater likely perches seasonally at the top of bedrock. Transient water also may be encountered within fracture zones and along bedding planes, and frequently discharges at bedrock outcrops.

Environmental Data Resources, Inc. (EDR), a START subcontractor, identified 2 federal USGS water wells, 2 state wells, and 17 oil/gas wells within 1 mile of the subject property by searching state and USGS database listings. Static water levels in the wells were not provided, and EDR extracted no data on groundwater flow and velocity (EDR 2016a). In the absence of site-specific data or other indicators, the direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, shallow groundwater flow is inferred to the north in the direction of the topographic gradient and surface water flow.

2.6.4 Hydrology

Based on the visual site assessment by START personnel on June 24, 2016, surface water on the subject property appears to follow surface topography and either infiltrates the ground or flows north toward Round Grove Creek.

3.0 USER-PROVIDED INFORMATION

The following section summarizes information provided by EPA Region 7 and the City (users) with regard to the TBA.

3.1 EXISTING STRUCTURE INFORMATION AND DRAWINGS

The City provided a copy of the Municipal Farm Sustainable Reuse Plan, which includes comprehensive land use maps of the Municipal Farm, including the subject property (see Appendix C).

3.2 SUMMARY OF TITLE INFORMATION

The City provided deeds for acquisition of the subject property parcels. No further title search was conducted by Tetra Tech START.

3.3 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The City was unaware of any information regarding environmental liens or activity and use limitations (AUL). The subject property is owned by Kansas City, a municipal corporation of the State of Missouri.

3.4 SPECIALIZED KNOWLEDGE

Interviews with City employees revealed historical knowledge of the subject property and adjacent properties. City employees also discussed a nearby former landfill (see Section 5.1). Tetra Tech reviewed available documents regarding the HEHS including the Phase I Site Characterization Report (see Section 6.2.6).

3.5 OWNER, SITE MANAGER, AND OCCUPANT INFORMATION

The subject property is owned by the City. Mr. Andrew Bracker, Brownfields Coordinator, is considered the key site manager of the subject property. The approximately 18.6-acre subject property is currently vacant land except for some concrete slabs and roadways associated with previous development.

3.6 REASON FOR PERFORMING PHASE I TBA

This TBA was requested by EPA to provide an environmental assessment of the HEHS property. This TBA intends to accurately assess whether the subject property is appropriate for sustainable reuse, and, if necessary, identify areas requiring cleanup. The four main goals of the TBA program are protecting human health and the environment, sustaining reuse, promoting partnerships, and strengthening the

market place. This TBA intends to satisfy one of the requirements for the innocent landowner defense to CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good customary practice," as defined in 42 *U. S. Code* Section 9601 (35)(B).

4.0 SITE RECONNAISSANCE

START members Ms. Christin Russell and Ms. Joann Jeplawy conducted the site reconnaissance on June 24, 2016. Photographic documentation of the site reconnaissance is in Appendix D.

4.1 METHODOLOGY AND LIMITING CONDITIONS

The site reconnaissance consisted of a visual inspection of the subject property in accordance with requirements set forth in 40 CFR Part 312. The purpose of the reconnaissance of the subject property was to seek out "conditions indicative of releases or threatened releases" as required by ASTM 1527-13. Its purpose was also to gather information from the current owners or operators about any HRECs regarding the subject property. START conducted the reconnaissance of the subject property for evidence of the following:

- Use, storage, treatment, disposal, or generation of hazardous substances, "controlled substances," or petroleum products
- Landfills, dumps, or evidence of burial activities or solid waste disposal
- Aboveground storage tanks (AST), underground storage tanks (UST), drums, or containers capable of storing hazardous substances or petroleum products
- Transformers or other electrical or mechanical equipment potentially containing polychlorinated biphenyls (PCB)
- Evidence of petroleum-based heating fuel sources
- Drains, pits, sumps, cisterns, cesspools, or similar receptacles where liquids drain, collect, or are stored
- Pits, ponds, lagoons, or open pools likely to contain hazardous substances or petroleum products or waste
- Staining on pavement or areas of dead, distressed, discolored, or stained vegetation that may indicate RECs
- Grading or fill material that may indicate contaminated soils or dumping
- Chemical smells, petroleum gases, foul odors, wells, and/or other site-specific environmental conditions.

START mobilized to the subject property to observe current conditions and obtain additional information relevant to the TBA. START also observed the exteriors of adjacent and select nearby properties to assess presence of environmental concerns.

Any items listed in the ASTM method not identified in this section can be assumed not present. Likewise, any item mentioned but not identified as a REC can be assumed not a REC. General recommendations regarding the subject property are summarized in Section 8.0.

4.2 GENERAL SITE SETTING

The following sections describe the subject property's current and past uses and exterior and interior features.

4.2.1 Site Description

The subject property encompasses an area of approximately 18.6 acres of vacant land except for some concrete slabs and roadways associated with the former HEHS.

4.2.2 Exterior Observations

The subject property is relatively flat, with drainage flowing from the subject property north and northeast toward Round Grove Creek. The footprint of the former HEHS is centrally located within the subject property. No buildings are present within the subject property.

4.3 SPECIFIC RECONNAISSANCE ITEMS

The following sections are related to items observed during reconnaissance.

4.3.1 Hazardous Substances and Petroleum Products

No evidence of hazardous substances or petroleum products was noted on the subject property.

4.3.2 Hazardous Waste

No evidence of storage or discharge of hazardous waste was noted on the subject property.

4.3.3 Landfills, Dumps, Burials, or Solid Waste Disposal

No landfills, dumps, or evidence of burial activities were observed on the subject property. Solid waste consisting of concrete slabs and rubble was observed throughout the subject property (see Appendix D). Presence of the solid waste does not pose a REC to the subject property.

4.3.4 Storage Tanks

Underground Storage Tanks

No visual evidence of past or present on-site USTs—including pipes, pumps, or stains—was apparent during the site reconnaissance. Mr. Andrew Bracker, City of Kansas City, was aware of an UST possibly present at the National Guard facility at the southeast corner of the subject property.

Aboveground Storage Tanks

No visual evidence of past or present on-site ASTs—including pipes, pumps, or stains—was apparent during the site reconnaissance.

4.3.5 PCB-containing Equipment

No visual evidence of PCB-containing equipment was observed on the subject property.

4.3.6 Heating, Ventilation, and Air Conditioning System and Fuel Source

No heating, ventilation, or air conditioning systems were observed on the subject property at the time of the site reconnaissance.

4.3.7 Drains, Sumps, Pools of Liquids, Standing Water, Cisterns, and Cesspools

No sumps, pools of liquid, standing water, cisterns, or cesspools were observed on the subject property at the time of the site reconnaissance.

4.3.8 Pits, Ponds, and Lagoons

No pits, ponds, lagoons, or open pools likely to contain or to have been used for disposal of hazardous substance or petroleum products, or for waste disposal or waste treatment, were observed on the subject property.

4.3.9 Stains or Corrosion and Stained Soil or Pavement

No stained soil or pavement or corrosion was observed on the subject property at the time of the site reconnaissance.

4.3.10 Areas of Dead, Distressed, Discolored, or Stained Vegetation

No areas of dead, distressed, discolored, or stained vegetation that would indicate RECs were observed on the subject property during the site reconnaissance.

4.3.11 Possible Fill, Grading, or Solid Waste Disposal

No fill, grading, or solid waste disposal was noted at the time of the site reconnaissance.

4.3.12 Smells of Chemical Gases, Petroleum Products, or Noxious Odors

No smells of chemical gases or petroleum products were noted at the time of the site reconnaissance.

4.3.13 Wastewater and Stormwater Systems and Discharges

No wastewater systems or discharges were observed on the subject property.

4.3.14 Wells and Potable Water Supply

No dry, irrigation, injection, abandoned, or other wells were observed on the subject property.

4.3.15 Other Site-specific Environmental Conditions

No other site-specific environmental conditions were noted during the site reconnaissance.

4.4 VICINITY RECONNAISSANCE

The subject property is bounded north by vacant wooded land and an animal shelter, with Raytown Road beyond; east by trees, with Ozark Road beyond; south by a National Guard facility and Ozark Road, with residential development beyond; west by vacant wooded land, with Eastern Avenue beyond; and northwest by a KCMO Police Heliport and woods (see Figure 2, Appendix B).

5.0 INTERVIEWS

The objective of conducting interviews is to obtain information concerning RECs in connection with the subject property. This information was obtained verbally, as indicated below. The interviewee was cooperative and forthcoming with information, unless otherwise specified. Interview documentation is in Appendix E.

5.1 INTERVIEW WITH OWNER

The subject property is owned by the City. START interviewed Mr. Andrew Bracker, City Planning and Development Department Brownfields Coordinator, to identify past and current uses of the subject property (see Appendix E). Mr. Bracker provided historical information, as well as copies of reports regarding the subject property. The HEHS was used from the mid 1980s to 1993 to store hazardous substances, but this site was not permitted or equipped for these activities. This storage occurred in two structures historically associated with the Municipal Farm. The State approved closure of the HEHS in 1993 after an inspection by MDNR. A consent decree was issued specifying cleanup requirements and limiting future use of the site to industrial/commercial use, leading to a deed restriction on the property (City 2009).

Mr. Bracker mentioned that the City had operated a former landfill west of the subject property (the Round Grove Creek Landfill) in 1971 and 1972. The former landfill encompasses approximately 32.7 acres and runs parallel to Raytown Road and Round Grove Creek. The landfill accepted approximated 70,000 tons of waste—primarily residential, construction, demolition, and hospital waste (City 2009). A soil cap was installed on the landfill after closure of it in 1972.

Mr. Bracker was not aware of: (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property, or (3) any notices from any government entity regarding any possible environmental violations relating to hazardous substances or petroleum products for the subject property.

5.2 INTERVIEWS WITH CURRENT OCCUPANTS

No current occupants were interviewed, as the subject property is currently unoccupied.

5.3 INTERVIEWS WITH PAST SITE OWNERS/OCCUPANTS

No interviews were conducted with past owners/occupants of the subject property.

5.4 INTERVIEWS WITH LOCAL/STATE GOVERNMENT OFFICIALS

START interviewed local government official, Andrew Bracker, as described above. START also contacted the Kansas City, Missouri Fire Prevention Division, but was unsuccessful in attempts to contact the Fire Chief for an interview.

6.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the subject property.

6.1 ENVIRONMENTAL RECORDS SOURCES

The following sources of environmental records were accessed and reviewed as part of this assessment.

6.1.1 Environmental Database Search

Federal, state, regional, and local records were reviewed to assess whether the subject property or surrounding properties have undergone significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects. EDR performed a database search of the subject property in accordance with ASTM E 1527-13 (EDR 2016a). A copy of this report is in Appendix F.

The databases searched have been developed and are updated by federal, state, and local agencies. While these databases generally are reliable and comprehensive, cases in which data are out of date and no longer reflect actual property conditions may occur. The Government Records Searched/Data Currency Tracking section of the environmental report identifies when each database was updated (see Appendix F).

The database search identifies properties with environmental records from numerous federal, state, tribal, and local regulatory agencies, and their distances from a specified geographic location (typically the perimeter of the subject property). Environmental databases searched and their recommended search radii are listed in the Map Findings Summary on pages 15 through 18 of Appendix F.

Facilities cited in the environmental database are summarized in Table 6-1. EDR identified eight database listings for the address associated with the subject property. EDR also identified seven database listings for other facilities that could be mapped within the search radii, and identified three database listings for “non-geocoded” or “orphan” facilities that, because of poor or inadequate address information, could not be mapped by EDR.

TABLE 6-1

SUMMARY OF REGULATORY AGENCY DATABASE REVIEW

Database Searched	Search Distance (miles)	Subject Property Identified	Number of Other Facilities within Search Distance
Federal Records			
RCRA-CESQG	0.25	Yes	1 (0 orphan)
RCRA-SQG	0.25	No	1 (0 orphan)
SEMS	0.50	No	1 (0 orphan)
SEMS-ARCHIVE	0.50	No	0 (1 orphan)
State and Local Records			
SPILLS	TP	Yes	0 (0 orphan)
UST	0.25	Yes	1 (1 orphan)
LUST	0.50	Yes	0 (1 orphan)
RGA LUST	TP	Yes	0 (0 orphan)
US Brownfields	0.50	Yes	1 (0 orphan)
ECHO	TP	Yes	0 (0 orphan)
Additional Environmental Records			
FINDS	TP	Yes (2)	0 (0 orphan)
Hist Auto Stat	0.125	No	1 (0 orphan)
Total Number of Database Listings *			18 (3 orphan)

Notes:

* Note that a facility may be listed in more than one database.

Auto	Automotive
CESQG	Conditionally Exempt Small Quantity Generator
ECHO	Enforcement & Compliance History Information
FINDS	Facility Index System/Facility Registry System
HIST	Historical
LUST	Leaking Underground Storage Tank
RCRA	Resource Conservation and Recovery Act
RGA	Recovered Government Archives
SEMS	Superfund Enterprise Management System
SPILLS	State Spills Sites
SQG	Small Quantity Generator
Stat	Station
TP	Target Property
US	United States
UST	Underground Storage Tank

START reviewed the facilities listed within the EDR Report (EDR 2016a), as summarized in Table 6-2. Information gained during additional record review is summarized following Table 6-2.

TABLE 6-2

SUMMARY OF REGULATORY AGENCY DATABASE LISTINGS WITHIN APPROPRIATE SEARCH RADII

Distance from Subject Property (miles)	Address	Direction from Subject Property	Facility Name	Database	Current Status	REC to Subject Property? (Basis)
TP	8100 Ozark Road	NA	HEHS	RCRA-CESQG, FINDS, ECHO	Compliance achieved for the RCRA-CESQG Violations	Yes (new land use)
TP	8100 Ozark Road	NA	MCI*	RGA LUST, US BROWNFIELDS, LUST, UST, SPILLS	Closed	No
<0.125	4601 Eastern	WNW	Police Heliport	UST, RCRA-SQG	Tank currently in use. No RCRA-SQG violations found	No, hydrologically upgradient
<0.125	4329 Raytown	NE	Bens Service Station	EDR Hist Auto	Listed as Bens Service Station 1951-56, and listed as Champlin Oil & Gas 1961-66	No, hydrologically upgradient
<0.25	1704 Sycamore	SSE	1704 Sycamore	US BROWNFIELDS, FINDS, ECHO	Phase I conducted	No, hydrologically crossgradient
<0.25	7600 Ozark Road	SSW	Kansas City Armory	RCRA-CESQG, FINDS, ECHO	No violations found	No, status
<0.50	Raytown Road & Eastern Road	N	Raytown Road	SEMS, SMARS	No Further Remedial Action Planned (NFRAP)	No, status

Notes:

*The Municipal Correction Institution site is not on the subject property.

BROWNFIELDS	Potential Brownfields Inventory Listing
CESQG	Conditionally Exempt Small Quantity Generator
ECHO	Enforcement and Compliance History Online
EDR	Environmental Data Resources, Inc.
FINDS	Facility Index System/Facility Registry System
HAZMAT	Hazardous materials
KCMO	City of Kansas City, Missouri
LUST	Leaking Underground Storage Tank
RCRA	Resource Conservation and Recovery Act
RCRA-CESQG	RCRA-Conditionally Exempt Small Quantity Generator
RCRA-SQG	RCRA-Small Quantity Generator
REC	Recognized Environmental Condition
SEMS	Superfund Enterprise Management System
SMARS	Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs

As noted above, EDR identified three database listings for “non-geocoded” or “orphan” facilities that, because of poor or inadequate address information, could not be mapped by EDR. According to a street map, on-line mapping resources, and information obtained during the site reconnaissance, one of the orphan sites is within the appropriate search radius from the subject property. The site, listed as Summers Gas Station, was identified in the LUST and UST databases. The site was remediated and the status closed on December 6, 1999 (EDR 2016a).

6.1.2 Vapor Encroachment Screen

Tetra Tech completed an initial vapor encroachment screen to determine if a vapor encroachment condition (VEC) exists in the subsurface below any proposed subject property structures from hazardous substances, petroleum, and petroleum products that can include volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and inorganic volatile compounds. The Tier 1 non-invasive vapor encroachment screen assessed presence of the chemicals of concern within the following approximate recommended minimum search distances specified in ASTM E 2600-10 *Standard Guide for Vapor Encroachment Screening on Sites Involved in Real Estate Transactions* (ASTM 2010):

Area of Concern Approximate Minimum Search Distances Surrounding the Subject Property (miles)		
Standard Environmental Record Sources (where available)	**Chemicals of Concern**	**Petroleum Hydrocarbon Chemicals of Concern**
Federal NPL	0.33	0.10
Federal CERCLIS	0.33	0.10
Federal RCRA CORRACTS	0.33	0.10
Federal RCRA non-CORRACTS TSD	0.33	0.10
Federal RCRA Generators	Subject Property Only	Subject Property Only
Federal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
Federal ERNS	Subject Property Only	Subject Property Only
State and Tribal-equivalent NPL	0.33	0.10
State and Tribal-equivalent CERCLIS	0.33	0.10
State and Tribal Landfill or Solid Waste Disposal Sites	0.33	0.10
State and Tribal LUST	0.33	0.10
State and Tribal UST	Subject Property Only	Subject Property Only
State and Tribal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
State and Tribal Voluntary Cleanup	0.33	0.10
State and Tribal Brownfield	0.33	0.10

Notes:

CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS RCRA Corrective Action Activity
ERNS Emergency Response Notification System
LUST Leaking Underground Storage Tank
NPL National Priorities List
RCRA Resource Conservation and Recovery Act
TSD RCRA Treatment, Storage, and Disposal
UST Underground Storage Tank

Based on results of the initial vapor encroachment screen, the following listings were identified in the EDR report (see Appendix F) with chemicals of concern within the minimum search distances (EDR 2016a):

- The subject property is listed in the Facility Index System/Facility Registry System (FINDS), Resource Conservation and Recovery Act (RCRA) – Conditionally Exempt Small Quantity Generator (CESQG), and Enforcement and Compliance History Online (ECHO) databases. Based on use of the facility, the listing does not pose a concern regarding vapor encroachment.

- Municipal Corrections Institute (MCI) is listed in the Recovered Government Archives (RGA) LUST, LUST, UST, and State Spills Sites (SPILLS) databases from 1997 through 2012 at 8100 Ozark Road, immediately adjacent to the subject property. According to online research, the tanks have been removed and the facility was remediated. Based on the status of the facility, the listing does not pose a concern regarding vapor encroachment.

6.1.3 Valuation Reduction for Environmental Issues

The City provided no information regarding valuation reduction for environmental issues associated with the subject property. The City was unaware of any information regarding environmental liens or AULs.

6.1.4 Engineering and Institutional Controls

As part of the environmental records search performed by EDR, federal and state databases for institutional and engineering controls were searched, including EPA's Engineering Controls Sites List and Sites with Institutional Controls, the Navy's Land Use Control Information System, and Missouri's Department of Natural Resources AUL – Sites with Controls. No engineering or institutional controls were reported (EDR 2016a).

6.2 HISTORICAL USE INFORMATION REGARDING THE SITE AND ADJOINING PROPERTIES

Historical data regarding the subject property and surrounding area were gathered to determine past uses and evaluate visible environmental issues that may pose RECs. The following sections describe aerial photographs, Sanborn maps, topographic maps, city directories, and past environmental reports that were available regarding the subject property. Historical use documentation referenced in the following sections is in Appendix G.

6.2.1 Sanborn Map Report

EDR conducted a search of Fire Insurance Maps. According to EDR, no Fire Insurance Maps showing the subject property were available (EDR 2016b) (see Appendix G-1).

6.2.2 Aerial Photographs

START reviewed aerial photographs of the subject property and surrounding area for years 1936, 1940, 1952, 1957, 1963, 1969, 1976, 1979, 1983, 1986, 1990, 1996, 1997, 2005, 2006, 2007, 2009, 2010, and 2012 (EDR 2016c) (see Appendix G-2). Table 6-3 is a summary of information obtained from the aerial photographs.

TABLE 6-3

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1936	**Subject Property:** The subject property appears to be primarily undeveloped land with some improved roadways leading to the area. A structure is visible at the center of the property. **Surrounding Properties:** Surrounding properties consist primarily of agricultural or undeveloped and wooded land with sporadic improved roadways. A structure associated with the Municipal Farm is east of the property. The Reformatory is to the southwest, with a small residential development beyond. The Tuberculosis Hospital is northwest of the property.
1940	**Subject Property:** The subject property appears to be primarily undeveloped land with some improved roadways leading to the area. A structure is visible at the center of the property. **Surrounding Properties:** The area surrounding the subject property appears similar to 1936.
1952	**Subject Property:** The subject property appears to be developed with the structures associated with the HEHS. **Surrounding Properties:** The area surrounding the subject property appears similar to 1940. The residential neighborhoods south and southwest of the subject property have expanded. A structure is northeast of the subject property.
1957	**Subject Property:** The subject property appears similar to 1952. Development of a neighborhood appears in the south central portion of the aerial photograph. **Surrounding Properties:** The area surrounding the subject property appears similar to 1952.
1963	**Subject Property:** The subject property appears similar to the 1957 aerial photograph. **Surrounding Properties:** The area surrounding the subject property appears similar to 1957. Significant expansion of the residential neighborhood south of the subject property is evident.
1969	**Subject Property:** The subject property appears similar to 1963. **Surrounding Properties:** The area surrounding the subject property appears similar to 1963, with addition of a roadway in the area of the current 435 Highway.
1976	**Subject Property:** The subject property appears similar to 1969. **Surrounding Properties:** The area surrounding the subject property appears similar to 1969. Additional structures are within the area of the Reformatory southwest of the subject property.
1979	**Subject Property:** Additional development of the subject property appears west of the HEHS. **Surrounding Properties:** The area surrounding the subject property appears similar to 1976.

TABLE 6-3 (Continued)

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1983	**Subject Property:** The subject property appears similar to 1979. **Surrounding Properties:** The area surrounding the subject property appears similar to 1979.
1986	**Subject Property:** Additional development of the subject property appears southwest of the HEHS. **Surrounding Properties:** The area surrounding the subject property appears similar to 1983.
1990	**Subject Property:** The subject property appears similar to 1986 **Surrounding Properties:** The area surrounding the subject property appears similar to 1986.
1996	**Subject Property:** The subject property is not identified on the aerial photograph; however, it appears similar to 1990. **Surrounding Properties:** The area surrounding the subject property appears similar to 1990.
1997	**Subject Property:** The subject property appears similar to 1996. **Surrounding Properties:** The area surrounding the subject property appears similar to 1996.
2005	**Subject Property:** Concrete slabs and rubble appear on the subject property. One structure in the south-central portion of the subject property remains. Vegetation has grown around the concrete slabs that remain. **Surrounding Properties:** The area surrounding the subject property appears similar to 1997.
2006	**Subject Property:** The subject property appears similar to 2005. **Surrounding Properties:** The area surrounding the subject property appears similar to 2005.
2007	**Subject Property:** The subject property appears similar to 2006. **Surrounding Properties:** The area surrounding the subject property appears similar to 2006, with addition of a landfill to the north.
2009	**Subject Property:** The subject property appears similar to 2007. **Surrounding Properties:** The area surrounding the subject property appears similar to 2007. The landfill previously evident north of the subject property is no longer visible.
2010	**Subject Property:** The subject property appears similar to 2009 except for removal of the former structure in the south-central portion of the subject property. **Surrounding Properties:** The area surrounding the subject property appears similar to 2009.
2012	**Subject Property:** The subject property appears similar to 2010. **Surrounding Properties:** The area surrounding the subject property appears similar to 2010.

Aerial photographs can be used in conjunction with other historical records presented in this section to determine previous land use on the subject property. Structures associated with the HEHS first appear in the 1952 photograph, and is no longer visible in the 2005 aerial photograph.

6.2.3 Historical Topographic Maps

Topographic maps can be used as indicators of land use and structural changes on the subject property, and thus can help determine historical land use that might pose an environmental issue to the subject property. START reviewed combined USGS Independence, Missouri and Kansas City, Missouri quadrangle topographic maps of the subject property and surrounding area for the years 1894, 1934, 1935, 1940, 1957, 1964, 1970, 1975, 1995, 1996, and 2015 (EDR 2016d) (see Appendix G-3). Table 6-4 is a summary of information obtained from the historical topographic maps.

TABLE 6-4

SUMMARY OF HISTORICAL TOPOGRAPHIC MAPS

Year	Description
1894	The subject property is not shown in detail on this topographic map. The map identifies developed cities, railroad tracks, and waterways.
1934/1935	An area identified as a quarry appears on the east boundary of the subject property. The Municipal Farm is present east of the subject property. The Tuberculosis Hospital is directly north of the subject property, and a structure in the area of the Reformatory is southwest of the subject property. Round Grove Creek is north and east of the subject property, the Chicago Rock Island Railroad tracks also are east of the subject property, and the Kansas City Southern Railroad tracks are west of the subject property.
1940	The subject property and surrounding areas appear similar to the 1934/1935 topographic map.
1957	Structures appear in the area of the HEHS on the subject property. The quarry is no longer visible on the subject property. Residential and commercial developments are north and south of the subject property.
1964	The subject property and surrounding area appear similar to 1957. Interstate 435 is under construction west of the subject property.
1970	The subject property and surrounding area appear similar to 1964, with the following exceptions: several commercial structures are visible in the surrounding areas, and the sports complex is under construction northeast of the subject property, beyond the Chicago Rock Island Railroad tracks.
1975	The subject property and surrounding area appear similar to 1970. Construction of the sports complex appears to be complete.
1995	The subject property and surrounding area appear similar to 1975.
1996	The subject property and surrounding area appear similar to 1995.
2015	No structures are on the subject property. The surrounding area appears similar to 1996.

Review of topographic maps did not identify specific potential source areas or environmental issues; however, topographic maps can be used in conjunction with other historical records presented in this section to determine previous land use on the subject property.

6.2.4 City Directories

START reviewed city directory listings for the subject property (8100 Ozark Road, Kansas City, Missouri) and nearby properties along Ozark Road, 47th Street Terrace, 48th Street, Palmer Avenue, and Palmer Drive for the years 1909, 1920, 1925, 1930, 1935, 1940, 1945, 1951, 1956, 1961, 1966, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2006, 2008, and 2013 (EDR 2016e) (see Appendix G-4). Table 6-5 summarizes information found in the city directories. Businesses and residences are on adjoining properties; however, none of the businesses was listed with normal operations that could pose an environmental threat.

TABLE 6-5

SUMMARY OF CITY DIRECTORIES

Subject Property Address	Property Occupant(s)
8100 Ozark Road	Municipal Farm (1961, 1966), City Penal Institution (1961, 1966, 1975), Provyn Cyriel (1961, 1966), City Womens Reformatory (1961, 1966, 1975), Municipal Correctional Institution (1975, 1980, 1985, 1990, 1995, 2006), Kansas City Connections to Success (2008)

City directories can be used in conjunction with other historical records presented in this section to determine previous land use on the site. Review of city directories identified address listings apparently associated with the subject property; based on these listings, the subject property was historically used as Kansas City Municipal Farm, City Penal Institution, Provyn Cyriel, MCI, and Kansas City Connections to Success. No RECs are posed to the subject property based on review of the city directories.

The MCI housed a tank that contained a petroleum product according to the environmental database search. The MCI, Women's Reformatory, and Kansas City Municipal Farm likely used pesticides and other chemicals during groundskeeping activities. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the target property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. Possibility of historical releases of petroleum products on the subject property does not pose a REC to the subject property.

6.2.5 Previous Reports

In addition to the environmental and historical records described above, START reviewed several documents provided by the City (See Appendix H).

A Phase I Site Characterization report, Investigation Addendum Report and Remedial Action Plan, Closure Plan, and a Summary of Closure Corrective Action Sampling Results were prepared on behalf of the City by Burns & McDonnell Waste Consultants, Inc., regarding the HEHS. In the mid-1980s, the City Health Department began to use a small, rectangular, fenced-in area that included two structures to store household hazardous waste (HHW), school laboratory waste, and other hazardous wastes generated by City operations and hazmat cleanups. This site was not permitted to accept or store hazardous waste. In November 1993, the City received a Notice of Violation (NOV) from MDNR after an inspection had found numerous violations. The State sought an assessment of penalties for the City's non-compliance. The State and the City agreed to settle the matter by entering into a Consent Decree. A deed restriction has also been filed for the HEHS property. Since that time, the HEHS property has been sampled, all structures have been demolished, contaminated soil has been excavated, and the State has approved site closure (City 2008). However the confirmation sampling did not occur on the entirety of the property; therefore, previous activities pose a REC to the subject property.

In May 2010, surface soil samples were collected at the MCI and HEHS properties and field-screened for RCRA metals by use of an x-ray fluorescence (XRF) analyzer. The Soil Chemistry Laboratory, Department of Agronomy, Kansas State University (KSU) conducted the sampling and analysis. KSU concluded that no significant concentrations had been identified inconsistent with future use as a community garden (KSU 2010), but recommended followup testing for possible pesticides such as dichlorodiphenyltrichloroethane (DDT) and dichlorodiphenyldichloroethene (DDE) (City 2010).

According to the Municipal Farm Redevelopment Site Analysis, the former Round Grove Creek Landfill is north of the subject property. The landfill encompasses approximately 32.7 acres and runs parallel to Raytown Road and Round Grove Creek. The City operated the landfill in 1971 and 1972. The landfill accepted approximately 70,000 tons of waste—primarily residential, construction, demolition, and hospital waste (City 2009). A soil cap was installed on the landfill after closure of it in 1972. This landfill was not identified in the EDR database reviewed during preparation of this report. According to the EPA Envirofacts Warehouse, the former landfill was referred to the removal section. A determination of no further remedial assessment required occurred in 2001 according to the CERCLIS database (EPA 2011). The former landfill is crossgradient of the subject property and does not pose a REC to the subject property.

The Municipal Farm Redevelopment Site Analysis listed Potters Field Cemetery as an environmental issue. According to this document, the City buried paupers, tuberculosis victims, and murder victims in a Potters Field just north of the National Guard Armory from around 1900 to 1940 (City 2009). This cemetery is crossgradient of the subject property and does not pose a REC to the subject property.

In March 2011, on behalf of the City, Tetra Tech EM Inc. conducted a Phase I ESA of the Municipal Garden Farm Community Garden project, which is included within the boundaries of the subject property (Tetra Tech EM Inc. 2011a). The following findings were identified ("subject property" refers to the location of the current-day municipal garden):

- The subject property was developed as an orchard according to a 1952 aerial photograph. Pesticides and/or chemical fertilizers are commonly used on orchards; therefore, the possibility that historical releases of hazardous materials or hazardous waste occurred on the subject property poses a REC to the subject property.

- The Men's Reformatory and MCI are shown on the subject property in the aerial photographs and other historical documents. The Men's Reformatory and MCI both housed a tank that contained a petroleum product, according to the fire insurance maps and the environmental database search. The Men's Reformatory, MCI, and agricultural land on the subject property likely used pesticides and other chemicals during groundskeeping activities. Environmental samples were collected and analyzed for VOCs, SVOCs, TPH-GRO, TPH-DRO, TPH-ORO, RCRA metals, pesticides, and herbicides. Levels of arsenic and PAH were detected. The detection of arsenic is attributed to background levels, and the PAH compounds are common in urban environments. Possibility of historical releases of petroleum products, hazardous materials, or hazardous waste from either the Men's Reformatory or MCI does not pose a REC to the subject property.

- Review of city directories identified the following facilities neighboring the subject property: MCI, Women's Reformatory, Malaria Research facility, Kansas City Municipal Farm, and the Kansas City Rat Control Laboratory. It is unclear whether the subject property was included in the Municipal Farm land. If the subject property was part of the Municipal Farm, what was applied to the land is unknown. Use of the subject property other than potential recreational/green space by MCI is unknown. MCI housed a tank that contained a petroleum product, according to the environmental database search. MCI, Women's Reformatory, Malaria Research, Kansas City Rat Control Laboratory, and Kansas City Municipal Farm likely used pesticides and other chemicals during groundskeeping activities. Possibilities that historical releases of petroleum products, hazardous materials, or hazardous waste occurred, and that these migrated from adjacent facilities to the subject property, do not pose a REC to the subject property.

- Review of the Fire Insurance Maps identified the following facilities neighboring the subject property: Men's Reformatory, pig sties, a feed building, stable and garage, canning factory, dwellings, poultry houses, and a hot bed. The Men's Reformatory structure did contain a 30-gallon tank of some sort of oil enclosed in concrete. Pesticides and other chemicals likely were used during groundskeeping activities near the pig sties, feed building, stable and garage, and canning factory. Possibility of historical releases of petroleum products from the Men's Reformatory tank and of hazardous materials or hazardous waste from the adjacent facilities such as the Men's Reformatory or farm structures to the subject property does not pose a REC to the subject property.

- Based on interviews and historical documentation, the following were identified in close proximity to the subject property: HEHS and National Guard Armory. Because these facilities are crossgradient of the subject property, they do not pose a REC to the subject property.

In April 2011, Tetra Tech finalized the Limited Phase II ESA of the Municipal Garden Farm Community Garden project. No groundwater was encountered, but soil samples collected during the Phase II ESA

were analyzed for VOCs, SVOCs, total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), TPH-oil range organics (ORO), RCRA metals, and pesticides. Based on the limited sampling during the Phase II ESA near the proposed municipal garden, the soil did not appear to have been affected by historical activities within the area where the community garden was proposed or within adjacent properties (Tetra Tech EM Inc. 2011b).

EAE prepared an Area-Wide Brownfields Plan (AWBP) for the Municipal Farm properties to be used to facilitate sustainable reuse and development of the area. The AWBP conveys information about known and potential Brownfields concerns, prior assessment and cleanup activities, background environmental studies, and results of sampling in the area. Brownfields and areas of potential concern were highlighted in the AWBP. Both the former Men's Reformatory and MCI, which were on the subject property, were discussed in the AWBP. The AWBP outlined the history of each of the facilities as discussed in Section 2.3 above, and recommended a Phase I ESA of these areas as a preliminary investigation. Following the initial investigation, targeted screening or Phase II ESA sampling was recommended to confirm presence of contamination at unacceptable levels. Possibly present contaminants within these conceptual land use plan (CLUP) areas are primarily petroleum-related contaminants, herbicides, pesticides, rodenticides, lead, and hazardous waste chemicals based on former uses as a correctional institution, canning factory, agricultural use, and other Municipal Farm activities (EAE 2012).

7.0 FINDINGS AND OPINIONS

The following significant findings and opinions resulted from records review, interviews, or reconnaissance:

- The subject property was listed in the RCRA- CESQG database for an incident reported in June 2005. Limited information is in the environmental database. This database includes selective information on sites that generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA. Review of city directories identified the following facilities at the subject property address of 8100 Ozark Road: the City MCI, Women's Reformatory, and Kansas City Municipal Farm. According to the environmental database search, the City MCI housed a tank that contained a petroleum product. No spill reports were identified during the environmental database search. The City MCI, Women's Reformatory, and Kansas City Municipal Farm likely used pesticides and other chemicals during groundskeeping activities. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the target property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. Storage of petroleum products and possible use of pesticides and other chemicals during groundskeeping activities do not pose a REC to the subject property.

- Based on interviews and historical documentation, the following were identified in close proximity to the subject property: MCI and National Guard Armory. Based on locations of these facilities crossgradient of the subject property, they do not pose a REC to the subject property.

- According to a previous Phase I ESA report regarding the HEHS (Tetra Tech EM Inc. 2011a), the subject property has been used for agricultural and office purposes. The HEHS was used in the past for temporary waste storage. Observations and data from the investigation indicated that unintentional releases of waste materials within the HEHS likely occurred in the past. A removal occurred at the HEHS site, and confirmation sampling occurred after the removal to ensure that all contamination had been removed. However the confirmation sampling did not occur on the entirety of the property; therefore, previous activities pose a REC to the subject property.

- EAE prepared an AWBP for the Municipal Farm properties for facilitation of sustainable reuse and development of the area (EAE 2012). Based on available information, possibly present contaminants within these CLUP areas covering the subject property are primarily petroleum-related contaminants, herbicides, pesticides, rodenticides, lead, and hazardous waste chemicals based on former uses as a correctional institution and canning factory, agricultural use, and other Municipal Farm activities.

8.0 CONCLUSIONS AND RECOMMENDATIONS

START has performed a TBA in conformance to the scope and limitations of ASTM E 1527-13 regarding the former HEHS in Kansas City, Jackson County, Missouri. Exceptions to, or deletions from, this practice are described in Section 1.4 of this report. Based on available information, this assessment has revealed evidence of several RECs and environmental issues in connection with the subject property, as described in Section 7.0.

This Phase I TBA is based predominantly on a review of available public records. As a general rule, no considered opinion can be issued regarding types and levels of contamination that may be associated with assessed properties without an appropriate scope of work that provides for intrusive exploration, material sampling, and chemical analysis. For this reason, START recommends a Phase II TBA at the subject property to determine if contamination is present at the subject property.

To assess the subject property for other possibly present contaminants based on historical use of the subject property, START proposes collection of surface and subsurface soil samples, within areas of formerly demolished buildings, for laboratory analysis. The soil samples will be analyzed for the eight RCRA metals, warfarin, and chlorinated pesticides.

9.0 CERTIFICATION STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject property addressed in this report. We have developed and performed all appropriate inquiries in conformance to the standards and practices set forth in 40 CFR Part 312, and attest to the completeness and accuracy of the information conveyed in this report.

If you have any questions concerning the findings and conclusions conveyed in this report, please call START Program Manager Ted Faile at (816) 412-1754 or START Project Manager Christin Russell at (816) 682-8631.

Assessor

Christin Russell

Christin Russell
Geologist

10.0 REFERENCES

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APPENDIX A

STATEMENT OF WORK

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE 1 OF PAGES 9

2. AMENDMENT/MODIFICATION NO. 015

3. EFFECTIVE DATE See Block 16C

4. REQUISITION/PURCHASE REQ. NO. PR-R7-16-00282

5. PROJECT NO. *(If applicable)*

6. ISSUED BY CODE R7

Region 7
US Environmental Protection Agency
11201 Renner Blvd.
Lenexa KS 66219

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

TETRA TECH, INC.
Attn: TED FAILE
415 OAK STREET
8164121754
KANSAS CITY MO 641061120

CODE 806586967 FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*

x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-S7-13-06 0002

10B. DATED *(SEE ITEM 13)* 06/20/2013

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended , by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted ; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted , such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)* Net Increase: $75,830.74
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER *(Specify type of modification and authority)* CLAUSE B-3 INCREMENTAL FUNDING

E. IMPORTANT: Contractor ☒ is not. ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

DUNS Number: 806586967
MODIFICATION NECESSARY TO ADD FUNDS IN THE AMOUNT OF $75,830.74, RESULTING IN A NEW TASK ORDER CEILING AND TOTAL OBLIGATED AMOUNT OF $2,262,663.63. ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME AND IN ACCORDANCE WITH CONTRACT MODIFICATION #16.

NOTE TO CONTRACTOR: SUBTASK #002.019 TOTAL CEILING AMOUNT--$100,815.38--KC MUNICIPAL FARMS
TOCOR: TODD DAVIS
Period of Performance: 07/02/2013 to 06/10/2018

Add Item 0014 as follows:

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*

16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*
Anthony LaMaster

15B. CONTRACTOR/OFFEROR
(Signature of person authorized to sign)

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA
Anthony LaMaster ELECTRONIC SIGNATURE
(Signature of Contracting Officer)

16C. DATE SIGNED 05/25/2016

NAME OF OFFEROR OR CONTRACTOR
TETRA TECH, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0014	Kansas City Municipal Farms HEHS -Brownfields TBA- additional funds for TO #2 to support subtask #002.019 Accounting Info: 15-E4-0700AG7-301D79-2505-1607W16038-001 BFY: 15 Fund: E4 Budget Org: 0700AG7 Program (PRC): 301D79 Budget (BOC): 2505 Job #: G700ON00 DCN - Line ID: 1607W16038-001 Funding Flag: Complete Funded: $75,830.74				75,830.74

Sub-Task

Under Task Order #02 – Brownfields TBAs

START 4 CONTRACT #: EP-S7-13-06

Activity Type: Targeted Brownfield Assessment,

Created On: May 19, 2016

Task: Geotechnical Investigation and Hydrology Report

PO: Debra Dorsey

Task Monitors: Todd Davis

General Task Description:

Estimated Completion Date: November 30, 2016

Task Codes:

Site/Project Name: Kansas City MF Geotechnical Investigation and Hydrology Assessment

Address: KCMO Municipal Farms

City, State, Zip: Kansas City, Missouri

Site ID No: N/A

I. INTRODUCTION

A. PURPOSE

The contractor shall be prepared to provide scientific/technical support for EPA activities in the Agency's primary mission: the protection of human health and the environment. Additionally, the contractor shall provide advisory and assistance services to other programs, such as site assessment, and remedial support activities. For each assigned task, the contractor shall provide appropriately experienced, trained, and accredited personnel with current credentials/certifications as well as all supplies, materials, tools, and equipment necessary to complete the job.

B. BACKGROUND

Under the authority of legislation, Presidential Directives, and promulgated regulations, EPA is responsible for protecting human health and the environment. EPA is delegated authority to undertake removal and remedial response actions. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to human health or the environment on the National Priorities List (NPL). Site assessment is the first step in determining whether a site meets the criteria for placement on the NPL. Listing a site on the NPL is one tool among many that are available to EPA and state cleanup program managers to accomplish the cleanup of contaminated waste sites. For additional information, see EPA OSWER Directive 9203.1-06, "Guidance on Setting Priorities for NPL Candidates sites."

II. TECHNICAL REQUIREMENTS

EPA Targeted Brownfields Assessment
TASK ORDER

The entire 441 acre AWP Municipal Farm properties will be included in a newly created Urban Agriculture Zone (UAZ). The most direct and immediate impact of the UAZ, however, is expected for the following Conceptual Land Use Planning (CLUP) Areas within Municipal Farm:

CLUP Areas 1, 2 & 4 (former Botsford Mine and LaFarge Concrete Batch Plant)
CLUP Areas 12 & 13 (former Municipal Corrections Institute (MCI) Site)
CLUP Area 15 (former Health Emergency Hazmat (HEHS) Site)
CLUP Area 7 (former Agricultural Lands)

December 18, 2015

1.0 Introduction/Background Discussion

The EPA's Targeted Brownfields Assessment (TBA) program is designed to assist States, tribes and local governments to minimize the uncertainties of contamination often associated with brownfields. TBAs supplement and work with other efforts under EPA's Brownfields Program to promote cleanup and redevelopment of brownfields properties.

The City of Kansas City Missouri has requested EPA to perform various assessments located at the Municipal Farms Property in Kansas City, Jackson County, Missouri.

2.0 Site Description

The site covers 441 acres in a newly created Urban Agricultural Zone.

2.1 Description and Current Conditions of Sites

3.0 History of Operation

The referenced properties were historically used for agricultural, commercial and industrial uses.

4.0 Summary of Pertinent Previous Investigations

Prior assessments were performed and Reports provided to the Contractor by the applicant.

5.0 Scope of Work

The contractor shall perform a Phase I and a Phase II environmental site assessment (ESA) on the Health Emergency Hazmat (HEHS) site and additional Phase II sampling on the areas around the former Botsford Mine, proposed Boys Grow Agriculture Site, and other areas within the Municipal Farms footprint. The contractor shall meet with the applicant and EPA Region 7 staff to discuss the site history, the Phase I and scope of the Phase II, and potential or planned future site uses.

The Phase I ESA will identify any potential recognized environmental conditions (REC) located on or in the vicinity of the sites in accordance with ASTM Standard E 1527-13, Standard Practice for Phase I Environmental Site Assessments. The Phase II ESA will further assess the site in accordance with ASTM Standard E 1903-97-11, Standard Guide for Phase II Environmental Site Assessments.

The Contractor shall conduct a Geotechnical Investigation and a Hydrology Investigation of the Municipal Farms Area. A description of the work that is planned, using the technical assistance provided by EPA and the objectives of the assessment, as requested by the Applicant, are described below:

The City requests technical assistance to perform the following services for the Municipal Farm priority development areas:

1. *Geotechnical investigation to determine site geological profiles, types and layers of rock outcropping and formations, depth to bedrock, locations of fill and rubble materials, and other information necessary to determine the suitability, or unsuitability, of priority areas for grading, cultivation, and the support of structural improvements and infrastructure (roads, buildings, etc.), and otherwise help develop more refined estimates of the areal extent of developable land within each priority development area.*

2. *Hydrology investigations to estimate the direction, rate and volume of precipitation and storm water on priority sites to assist with planning and design of green infrastructure and possible water storage features on for priority site development.*

To avoid duplication of effort and to control costs, contractors will be asked to review and build upon the information presented in the SRP and Area-Wide Brownfields Plan regarding the general soils, geology, hydrogeology, hydrology, topography, and infrastructure conditions of the Municipal Farm properties and priority areas.

Description of the overall project, including the vision and specific goals of the project, that the technical assistance will support related to:

This information will be used, together with the previous Area-Wide Brownfields and SRP plans, to help the City and interested parties determine the location, areal extent, availability and readiness of the priority areas for suitable and sustainable development, and to help in the design, estimation of costs, and scheduling of improvements to sites and infrastructure needed to pursue recommended development options.

6.0 Description of Tasks

Task 1 – ASTM/AAI Phase I and Phase II ESA and Reporting

The contractor will conduct the Phase I and II ESAs in accordance with EPA's final regulations governing All Appropriate Inquires (40 CFR 312) or ASTM International's E 1527-13 and E1903-97-11 standard for Phase I & II ESAs as wells as the guidance documents listed at the end of this task order.

From the information and documents reviewed for the Phase I and Phase II ESAs and inclusive of all EPA comments on the draft report, the contractor shall prepare 2 bound color hard copies and one electronic copy of each of the ASTM/AAI Phase I and Phase II site investigation reports

covering the individual site and including a property profile form for the site. The report will detail the execution of the site inspections and summarize the findings of the site investigation. All hard copies and the electronic copy will be provided to the EPA Project Contact identified below.

6.1 Quality Assurance Project Plan (QAPP). The Contractor shall prepare a Quality Assurance Project Plan for the environmental assessment as well as the asbestos, and lead-based paint surveys. The QAPP shall present the objectives, organization, activities, and quality control procedures that will be employed to ensure that all technical data generated during the assessment and the asbestos and lead-based paint surveys are accurate and representative of the conditions at the project site. The QAPP shall contain a Title and Approval Page. A draft version of the QAPP shall be submitted to the EPA Task Order Project Officer (TOPO) and must be approved by the EPA TOPO prior to conducting the surveys. Electronic submittal is acceptable for the QAPP. For guidance on creating a QAPP, refer to the guide EPA Requirements for Quality Assurance Project Plans (QA/R-5) found at: http://www.epa.gov/quality/qs-docs/r5-final.pdf

6.4 Phase I Environmental Site Assessment. The Contractor shall conduct a Phase I Environmental Site Assessment (ESA) in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments, E1527-13, to meet the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) "all appropriate inquiry" standard and identify all "recognized environmental conditions" associated with the property. The Phase I ESA shall be as complete as possible with all ASTM requirements attempted and documented (including title search for environmental liens, assessments of any specialized knowledge or experience of the prospective landowner, and commonly known or reasonably ascertainable information the prospective purchaser is aware of.). The Phase I ESA shall be submitted in draft and final versions.

7.0 Project Schedule

- The contractor will submit to the EPA Project Contact identified below an electronic copy of a 90% draft submittal of the site investigation reports within 60 days from the date the sites are assigned to the contractor.
- Comments will be made and returned to the contractor within 60 business days.
- The final deliverables as described above are due 30 business days after EPA provides comments on the draft reports.

8. Project Contacts

Todd H. Davis, Site Assessment Manager, EPA Region 7
Phone: 913-551-7749
Email: davis.toddh@epa.gov
Address: US EPA Region 7
Todd H. Davis
11201 Renner Blvd

Lenexa, KS 66219

Guidance Documents/References

- "Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process, " ASTM, E 1527-00

- "Standard Practice for Environmental Assessments: Phase II Environmental Site Assessment Process," ASTM 1903-97; and

- "Generic Quality Assurance Project Plan for the Superfund Site Assessment and Targeted Brownfields Assessment Programs," EPA-Region VII, Superfund Division, July 2007

- Superfund Technical Assistance & Response Team (START) - 4

III. DOCUMENTATION REQUIREMENTS

In the course of performing tasks identified in this SOW, the contractor shall submit all analyses, options, recommendations, reports, and any other work products in draft form for review by the Contracting Officer (CO) or the Contracting Officer's Representative (COR) prior to use or distribution.

The contractor shall not publish, release, use, or disclose any work product generated under this SOW without EPA's written approval; interpret EPA policies or regulations when conducting any training, seminars, or presentations; and/or provide any legal advice or legal interpretations.

The Government will make all final regulatory, policy, and interpretative decisions resulting from contractor provided advice and assistance; and will also make all final decisions regarding compliance determinations, or the violations of an order, law, regulation, etc.

The contractor shall submit documents that demonstrate a good command and correct usage of the English language (e.g, discussion of facts flow in a coherent and organized manner); use proper grammar (noun and verb tense correspond, etc.); and are free of incomplete sentences and misspelled words.

For deliverables that contain recommendations, the contractor shall explain or rank policy; explain or rank alternative actions; describe procedures used to arrive at recommendations; summarize the substance of deliberation; report any dissenting views; and cite sources relied upon.

Schedule:

Meeting with EPA and Applicant due June 20, 2016

Draft Workplan for conducting the Geotechnical Investigation and Hydrology Report, including review of previously conducted analyses due July 15, 2016

Reports may be submitted separately depending on Conference Call with Applicant

QAPP for site sampling will be due July 30, 2016

Draft Reports due October 15, 2016 or as approved by the Task Order Project Manager.

Final Reports due November 15, 2016 or as approved by the Task Order Project Manager.

B-1 EPA 1552.216-73 FIXED RATES FOR SERVICES-INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACT. (APR 1984)

The following fixed rates shall apply for payment purposes for the duration of the contact subject to Economic Price Adjustment as described in Section G.

BASE PERIOD

CLIN	DESCRIPTION	ESTIMATED QUANTITY	HOURS	UNIT PRICE	TOTAL
1	Principal Professional	1	12	$117.74	$1,412.88
2	IT Pro, Sr Sci, Sr Eng	1	40	$84.29	$3,371.60
3	Jr Sci, Jr Eng	1	200	$58.28	$11,656.00
4	Ctr Admin, Sr Tech	1	8	$65.43	$523.44
5	Gen IT Tech, Jr Tech	1	92	$32.34	$2,975.28
6	Clerical	1		$45.31	$0.00
7	Travel + G&A @ 5.32%	NTE		$2,250.00	$2,369.70
8	ODCs + G&A @ 5.32%	NTE		$32,376.00	$34,098.40
9	Subcontracts + G&A @ 0%	NTE		$15,000.00	$15,000.00
10	Equipment + G&A @ 5.32%	NTE		$4,200.00	$4,423.44

GRAND TOTAL

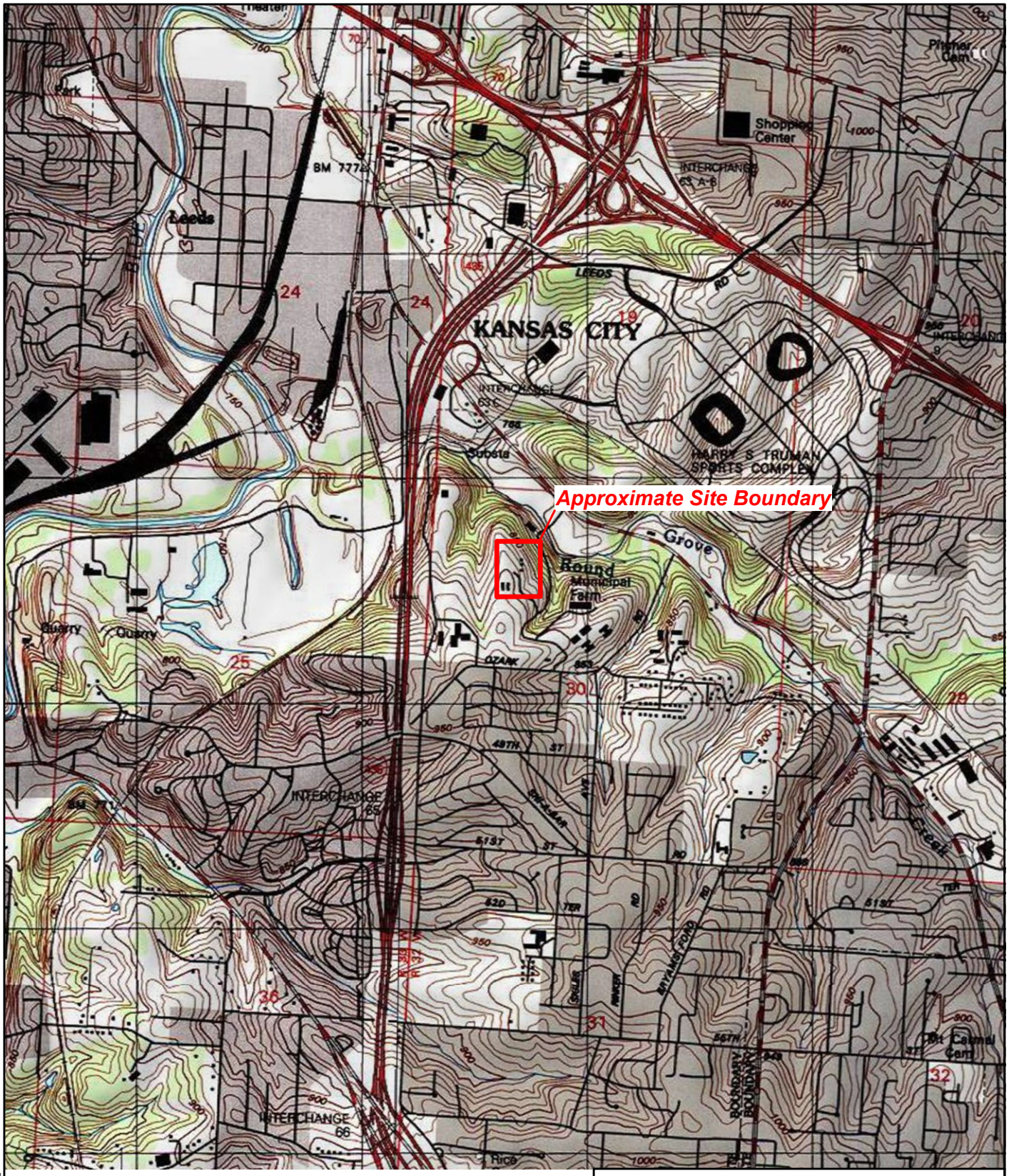
$75,830.74

KANSAS CITY MUNICIPAL FARMS

TO #2, MOD # 15 SUBTASK #002.019

APPENDIX B

FIGURES



N

0 1,000 2,000

Feet

Source: USGS Independence, MO 7.5 Minute Topo Quad, 1975;
USGS Kansas City, MO 7.5 Minute Topo Quad, 1975

KCMO Municipal Farms - HEHS
Kansas City, Missouri

Figure 1
Site Location Map

TETRA TECH

Date: 10/26/2016 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.020

X:\G\9025\0002\2019\020\Projects\mxd\Figure 1_Phase I.mxd

Legend

- Interstate highway
- Major road
- Street
- Stream/river
- Approximate site boundary

Source: HSIP Gold, 2007; USGS, The National Map: National Hydrography Dataset, 2016;
The source of this basemap image is Esri, used by EPA with Esri's permission.

KCMO Municipal Farms - HEHS
Kansas City, Missouri

Figure 2
Site Layout Map

TETRA TECH

Date: 10/26/2016 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.020

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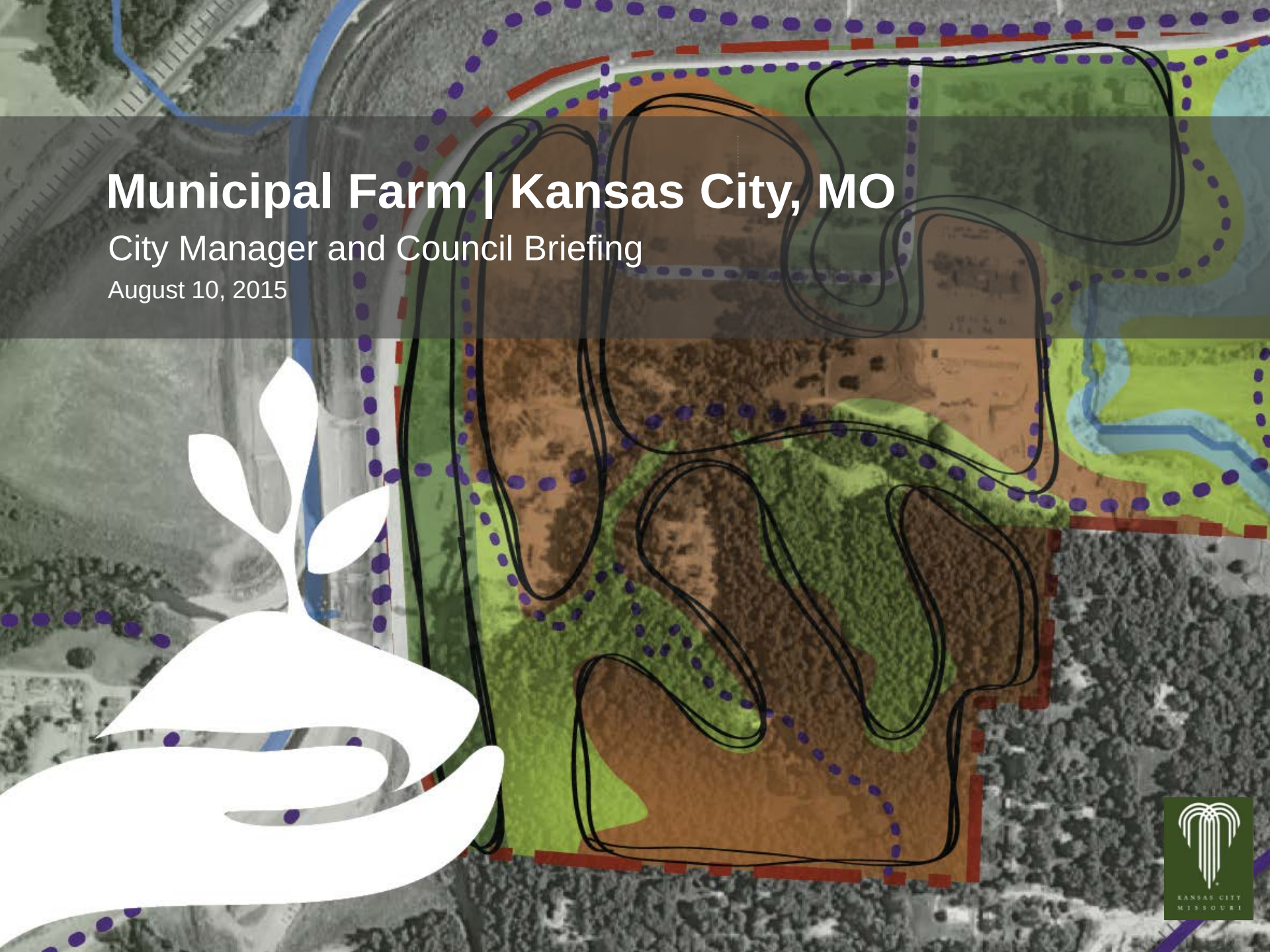
APPENDIX C

USER-PROVIDED INFORMATION

Municipal Farm | Kansas City, MO

City Manager and Council Briefing

August 10, 2015



Municipal Farm | City Manager & Council Briefing

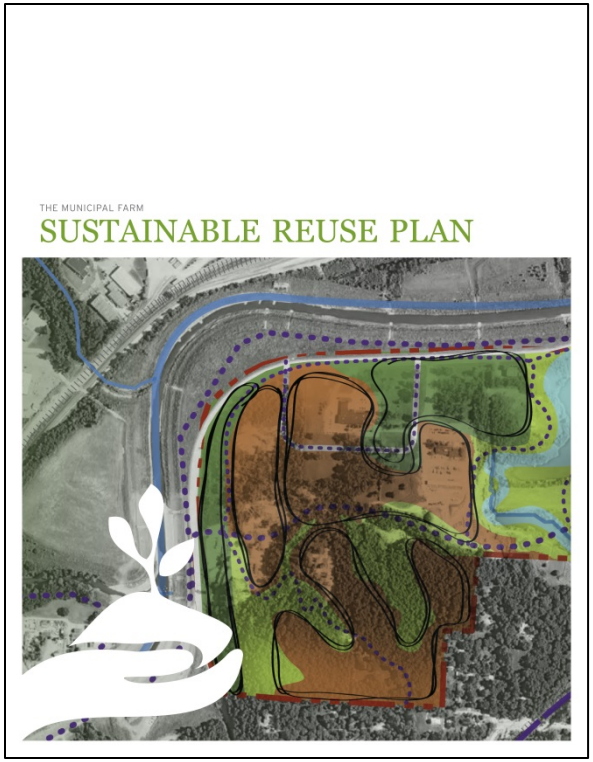
August 10, 2015

- Introduction
- Sustainable Cities Design Academy
- Business & Development Opportunities
- Committed Partners & Resources
- Community Connections
- Next Steps

Municipal Farm | Introduction

August 10, 2015

- Background
- Sustainable Reuse Plan adopted 2012
- Master Planned Development zoning approved March 2015
- Sustainable Cities Design Academy (SCDA) June 2015



KANSAS CITY, MISSOURI

Municipal Farms Sustainable Reuse Plan

FINAL PROJECT PRESENTATION

Sustainable Cities Design Academy

AMERICAN ARCHITECTURAL FOUNDATION

Vision

To create a special place for urban farming, personal growth, civic pride, and natural beauty where all people are empowered to connect with food, nature and each other in ways that enrich and sustain themselves, the land, their community, and the economy.

Key Elements

for future land use development

- ***Physical & Practical Connections Throughout Site and Region***
  - Internal road & trail network, plus “living bridge” linking east and west areas
  - Regional linkages to area trails, commuter rail, and Katy Trail
- ***Productive Ecosystems***
  - Habitat restoration, green infrastructure, native agroforestry
- ***Outdoor Recreation***
  - Single-track and casual cycling, walking, hiking, trail running, wildlife viewing
  - Indoor/outdoor climbing area, skate park complex

Key Elements

for future land use development

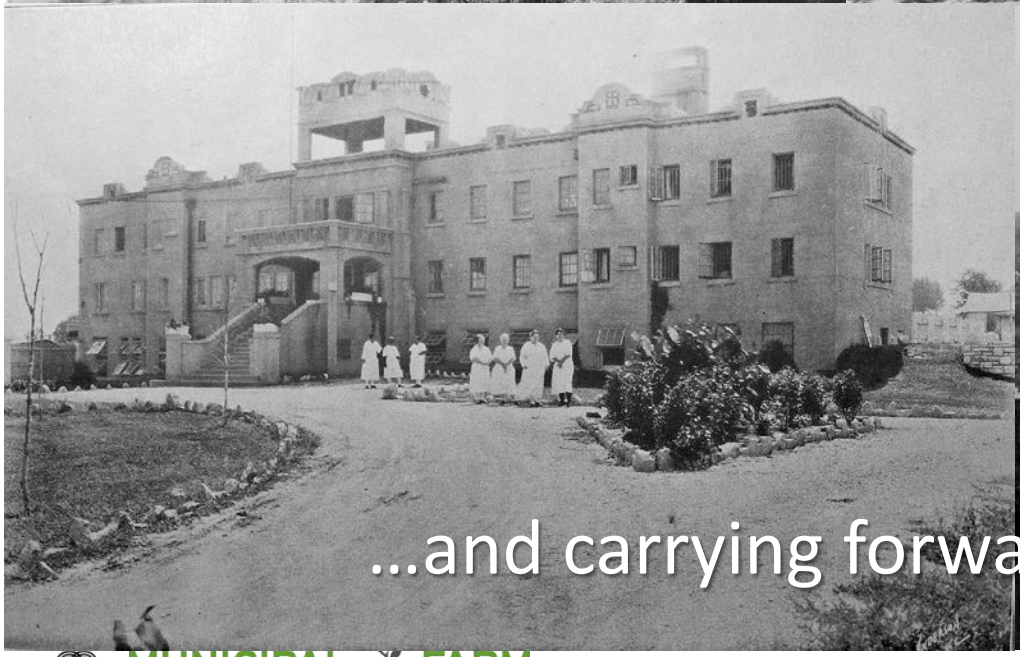
- ***Urban Agriculture HQ Campus***
  - Enabling and supporting economically viable urban farmers
  - Support infrastructure, business planning, education
  - Compost enrichment center
  - Connecting farmers and distributors/markets
  - Food and native plant nurseries
- ***Farm plots, land and retail opportunities throughout the site***

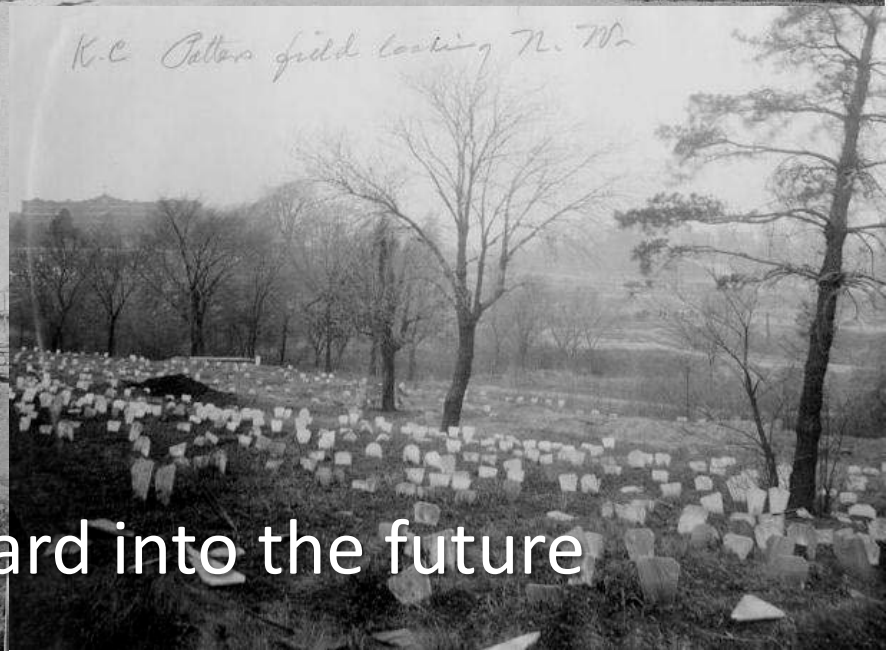
Key Elements

for future land use development

- ***Education, Outreach, Research and Development***
  - K-12, university, and institutional indoor and outdoor classroom space
  - Outdoor laboratories and test plots for food, habitat, water quality
  - Life-long learning for the general public
  - Elder hostels, retreats, conferences
- ***Energy***
  - *Anaerobic digestion, solar, wind*

Honoring Municipal Farm History



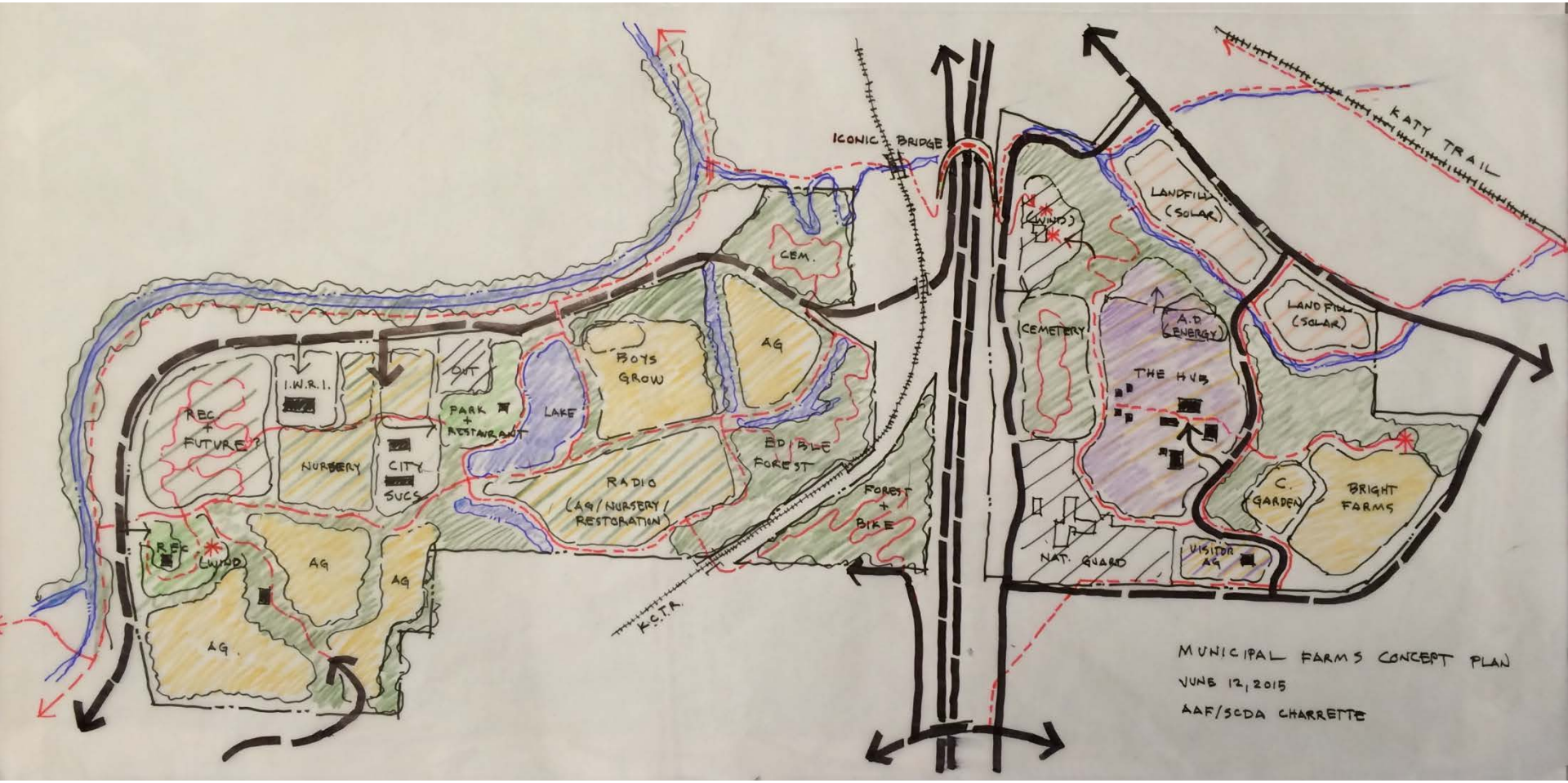


…and carrying forward into the future

All Photos - Missouri Valley Special Collections, Kansas City Public Library, Kansas City, Missouri

Municipal Farm Concept Plan

June 12, 2015 AAF/SCDA Charrette



Built to connect people, food and nature at the site, neighborhood and regional levels . . .

East Area

Urban Ag HUB

- Admin. HQ
- Post-Harvest Processing
- Grower Support
- Demonstration Plots
- Classes, youth camps, retreats

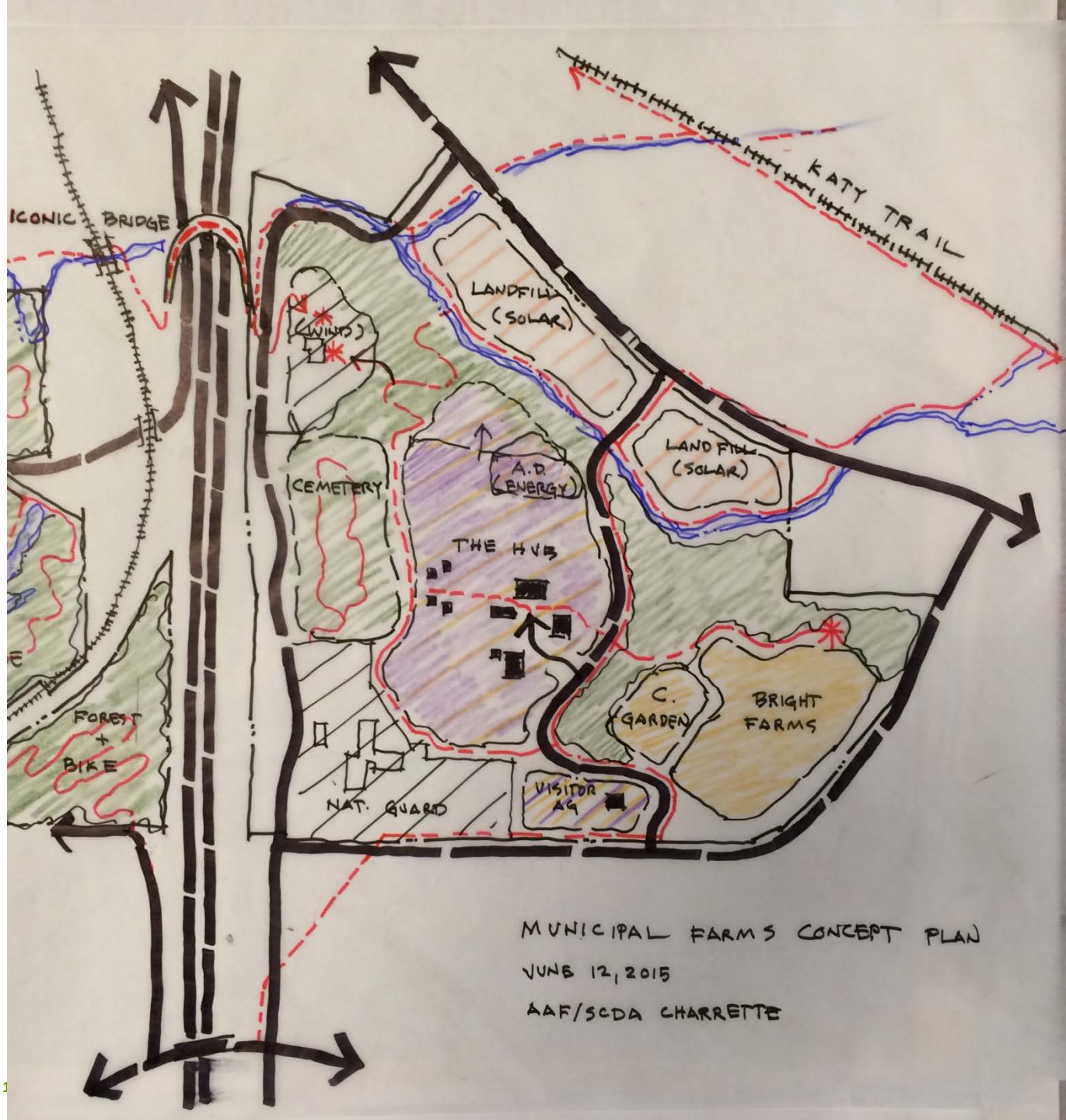
Visitor Ag

- Orchard, Livestock, or Vineyard
- Community Gardens

Renewable Energies

- Wind Turbine
- Anaerobic Digestion
- Solar Landfill

Katy Trail and Stadium TOD Connections



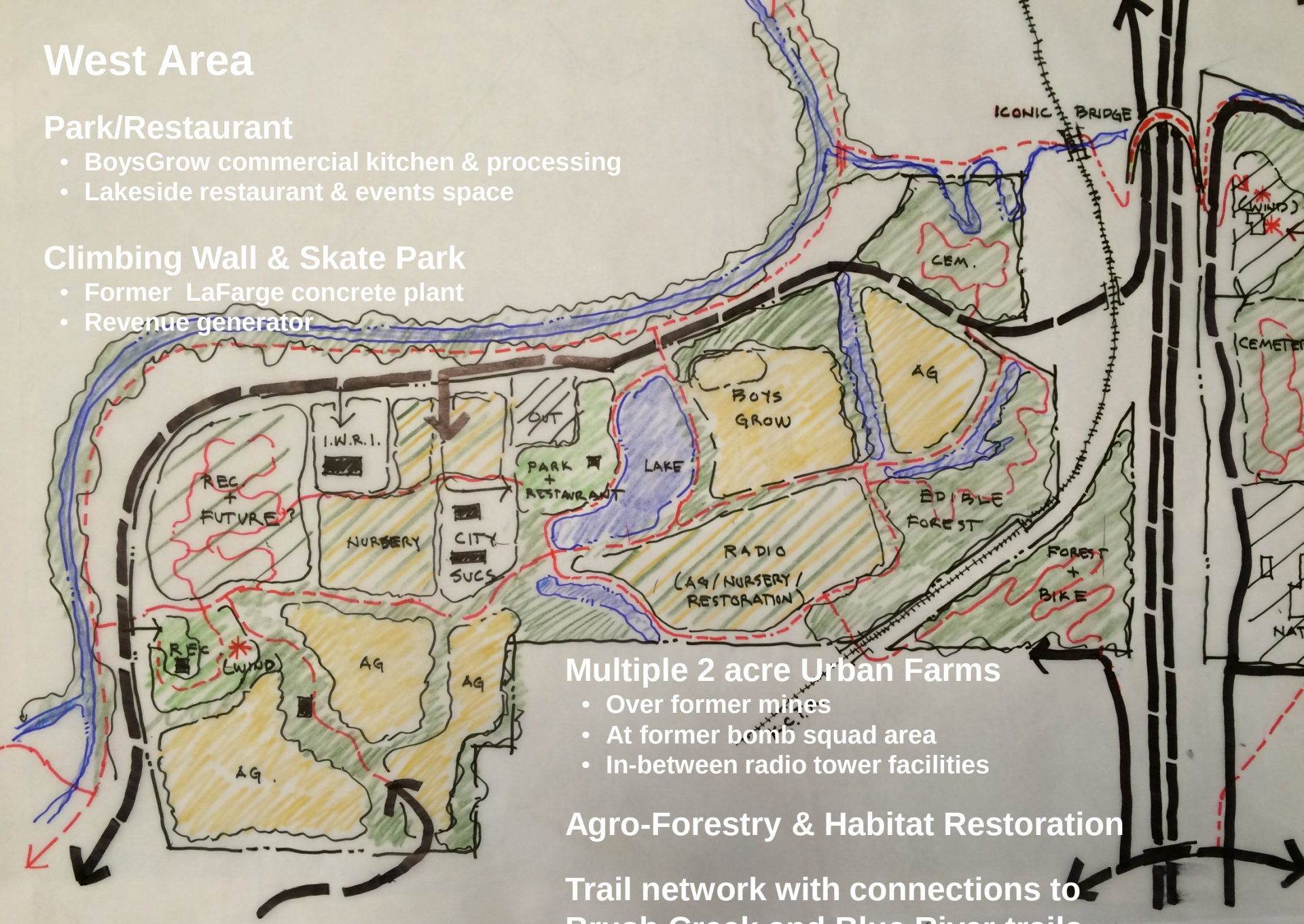
West Area

Park/Restaurant

- BoysGrow commercial kitchen & processing
- Lakeside restaurant & events space

Climbing Wall & Skate Park

- Former LaFarge concrete plant
- Revenue generator



Multiple 2 acre Urban Farms

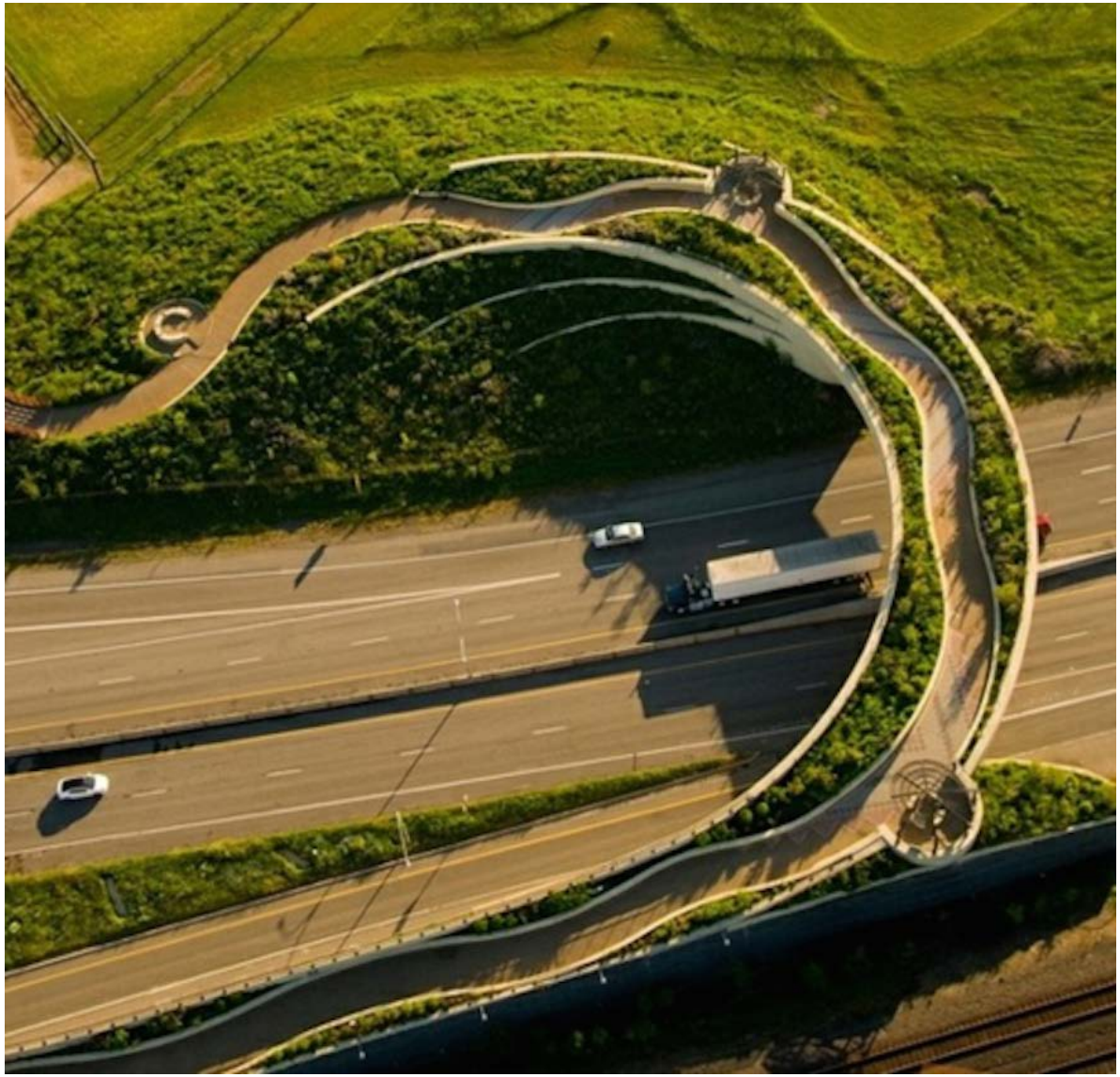
- Over former mines
- At former bomb squad area
- In-between radio tower facilities

Agro-Forestry & Habitat Restoration

Trail network with connections to Brush Creek and Blue River trails

“Crown Connector” over I-435

- Uninterrupted trail access to MLB / NFL stadiums, commuter rail station, and Katy Trail.
- Joins all farms, businesses & recreation within the site.
- Modeled on award-wining Confluence Land Bridge, Vancouver B.C., 2008.



Regional Trail Connections

- Brush Creek trail to Plaza (80-90% completed).
- Blue River trail to Swope Park and points north (planned).
- Rock Island Rail Corridor commuter rail and Katy Trail (acquisition phase underway).
- City and County-wide trail systems.

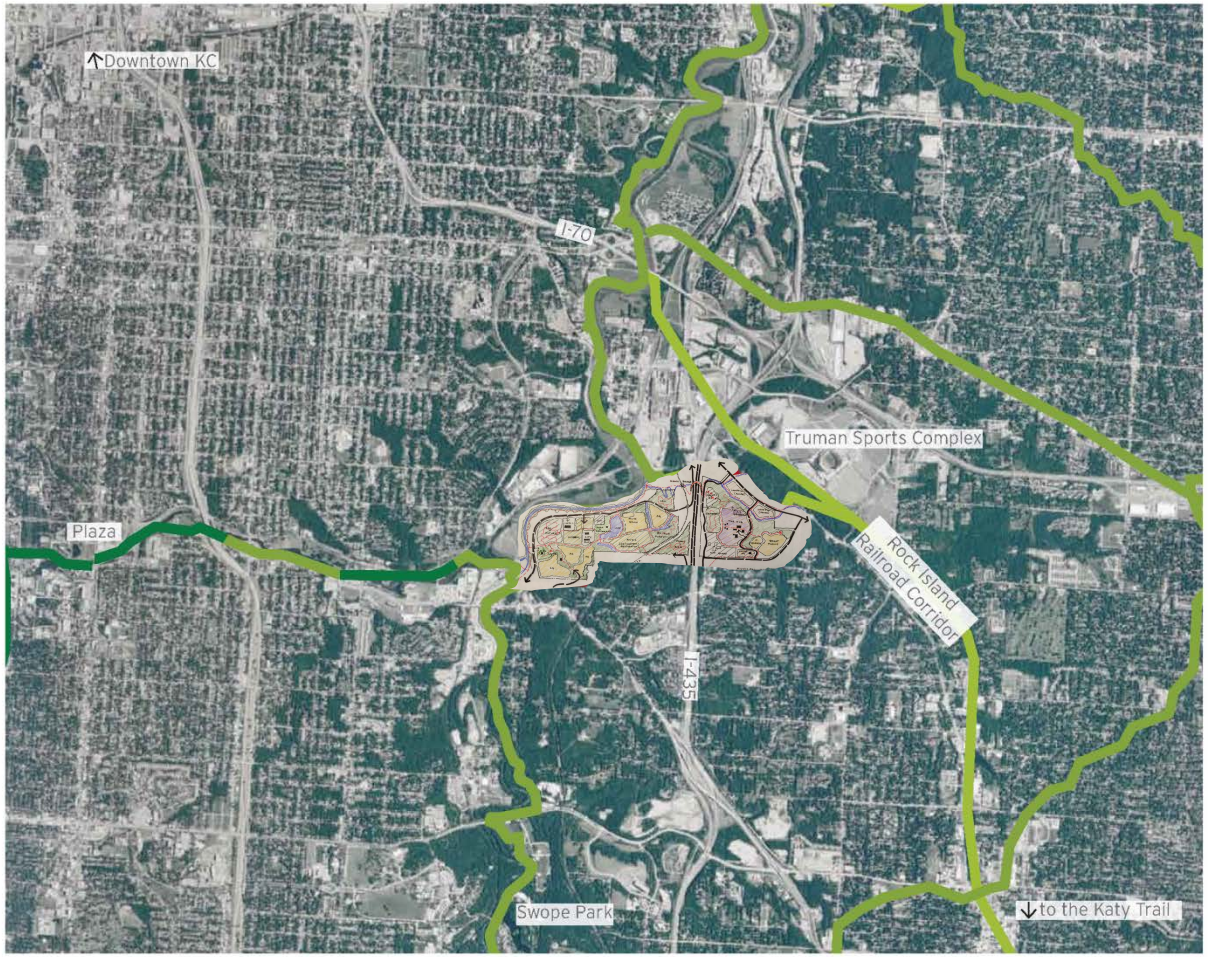


FIGURE 4- 3 | REGIONAL TRAIL CONNECTIONS

Existing Metro Green trails

Phase I Metro Green trails

Phase II Metro Green trails

Mini Food Hub

Post-Harvest Processing & Distribution
for on-site and nearby farms.

Composting Centers

Area 15 (East at “the Hub”)
&
Area 7 (West at BoysGrow)

- Low grade mulch will be enhanced with gleanings, forage, food scraps collected from neighborhoods, and vermiculture.

- Economical, high-grade compost will enrich poor soils on-site and at regional farms and community gardens, and sold for revenue.

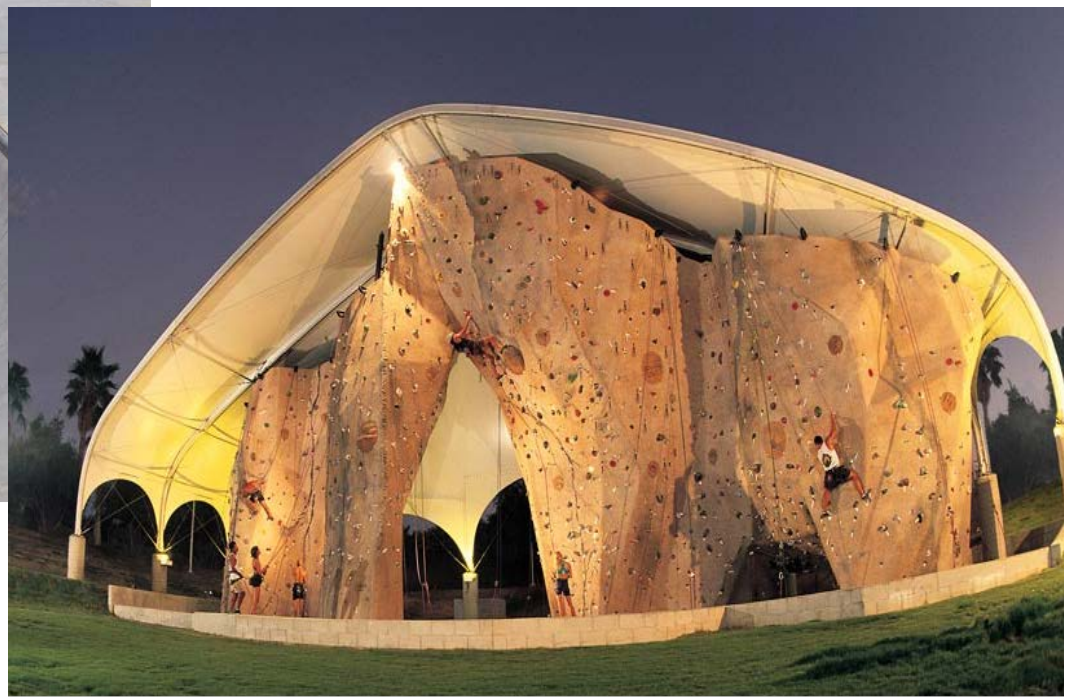
Kitchen - Restaurant - Event Space

- Commercial kitchen to develop new products, recipes and menus from farmstead produce.
- Lakeside restaurant and event facilities to generate year-round revenue.
- Adjacent to BoysGrow farm.
- Classes for healthy cooking.
- Restored lake habitat for wildlife, learning and recreation.

Outdoor Recreation

LaFarge Skate Park and Climbing Wall

- Connects to City trails system
- Potential revenue generation



Renewable Energies

Round Grove Creek 2MW Commercial Solar

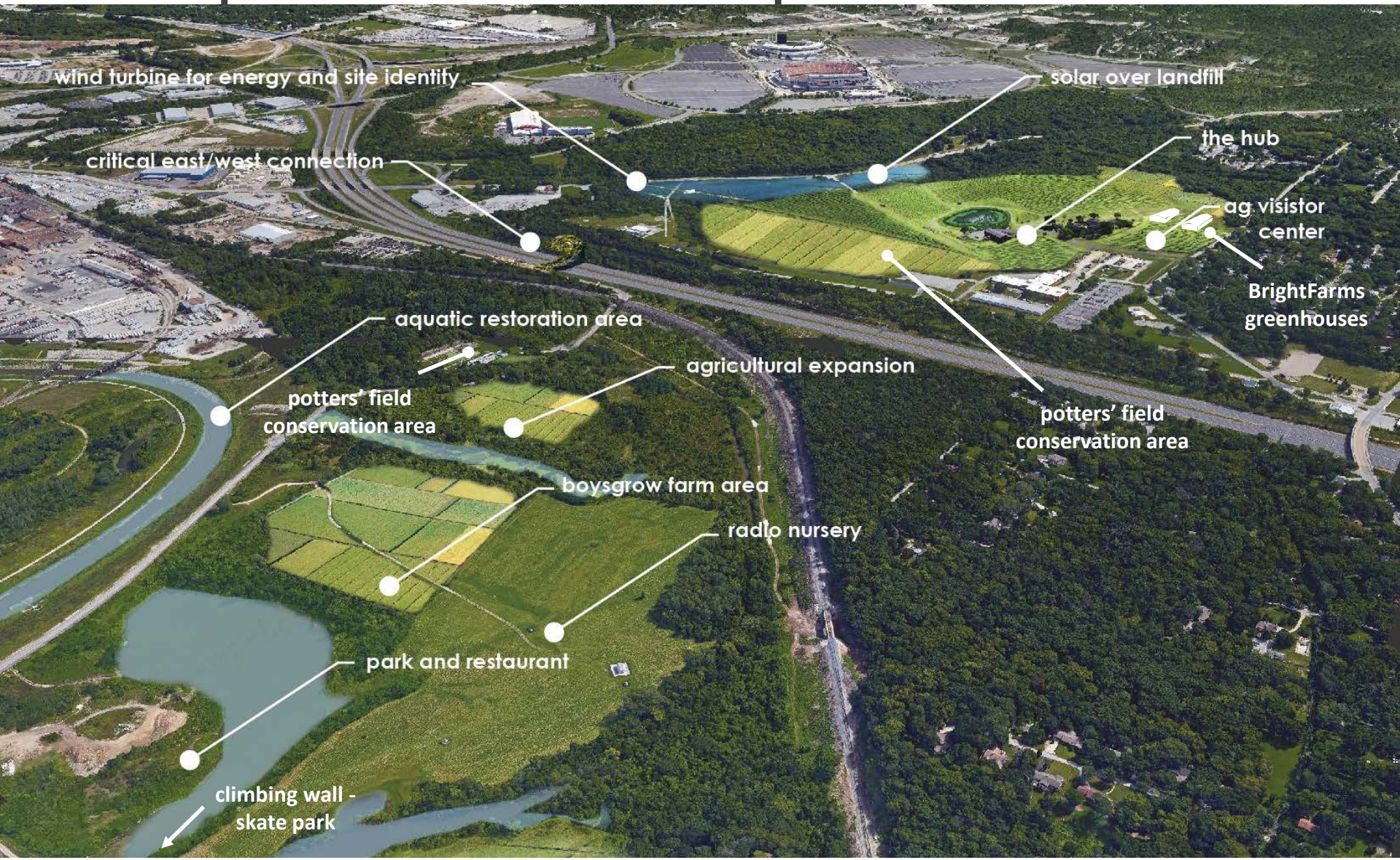
Wind Turbines

- Helicopter Area 18
- LaFarge Area 2

Anearobic Digestion Facility Area 15

Renewable energy from manure, food waste and other biomass material

Municipal Farm Finished Concept



Municipal Farm

- Vision For Sustainable Development
- Business & Development Opportunities
- Committed Partners & Resources
- Community Connections
- Next Steps

Vision For Sustainable Development

- Urban Agriculture Headquarters
- Mini-Food Hub
- Composting Center
- Outdoor Recreation:
  - *Climbing Wall / Skate Park / Regional Trails*

Vision For Sustainable Development

- BoysGrow Commercial Kitchen & Event Space
- 2 acre Working Farms
- Wetland & Woodland Ecosystem Restoration
- Green Infrastructure
- Renewable Energies
  - *solar, wind, anaerobic digestion*

Business & Development Opportunities

- Facility Branding & Sponsorship
- Leasing For Various Uses
- Food & Compost Production, Processing and Distribution
- Franchising & Concessions
  - *recreation facilities / boat, bike & skate rentals*

Business & Development Opportunities

- Commercial/Retail
  - *restaurants, events, retreats, seminars, etc.*
- Agri-Tourism
  - *picking orchards, model farm, livestock, winery, etc.*
- Transportation Oriented Development (TOD)
  - *Rock Island Rail Corridor, Katy Trail, JaCo Sports Complex*
- Renewable Energy Production

Committed Partners & Resources

Kansas City, MO	PIAC + Leases, UAZ	at least $120,000
U.S. EPA	Technical Assistance	at least $125,000
U.S. Army Corps of Engineers	Ecosystem Restoration	up to $400,000
HyVee	BoysGrow & Community Garden	at least $62,760
National Fish & Wildlife Foundation	Technical Assistance	$49,800
	TOTAL	$757,560

Community Connections

- Jobs
  - *Food Systems, Compost, Education, Recreation, Ecosystem Restoration, Green Infrastructure, Renewable Energies*
- Workforce Development
- Healthy Living
  - *Trails, Recreation, Gardening, Healthy Foods*
- Community Gardens (City-Wide)
  - *Free or Low-Cost Compost, Greenhouses, Mini Food Hub*
- Education & Research
  - *K-12 Programs, Wildlife Viewing, MU Extension, UMKC*

Next Steps

- Planning
  - *Prioritize Development Sites and Opportunities*
  - *Complete Current Planning/Design Efforts*
- Agreements
  - *City Council Resolution Endorsing SCDA Product*
  - *Memorandum of Understanding (MOU) With Key Development Partner(s)*
  - *Lease(s) for Interim Uses (1-step potato farm, etc.)*

Next Steps

- Create Project Management Capacity
  - *Dedicated Project Developer*
  - *Dedicated On-Site Manager*
  - *Explore Capacity-Building Options: Non-Profit/Foundation, Development Agency, City FTE, Contract Services, etc.*

Next Steps

- Resources
  - *Budget Site Improvements and Long-Term O & M*
  - *Identify Funding Gaps*
  - *Secure Grants, Incentives, Business Income, Foundations, Private Capital*
- Construction
  - *Design & Construct Pre-Development Site Improvements*
  - *Preserve and Protect Cemeteries*

THANK YOU!!

For More Information

Kimiko Gilmore
Assistant City Manager
City of Kansas City, MO
(816) 513-6558
Kimiko.Gilmore@kcmo.org

Download this presentation and more at: https://data.kcmo.org/. Search “Municipal Farm”.

KANSAS CITY
MISSOURI

APPENDIX D

SITE PHOTOGRAPHS

Health Emergency HAZMAT Site
Kansas City, MO

TETRA TECH PROJECT NO. X9025.14.0002.019020 DIRECTION: Southeast	DESCRIPTION	This photograph shows the road leading up to the former structure on site.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE 6/24/16
	PHOTOGRAPHER	Christin Russell	

TETRA TECH PROJECT NO. X9025.14.0002.019020 DIRECTION: West	DESCRIPTION	This photograph shows a field directly west of the former structures on the site.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE 6/24/16
	PHOTOGRAPHER	Christin Russell	

Health Emergency HAZMAT Site
Kansas City, MO

TETRA TECH PROJECT NO. X9025.14.0002.019020 DIRECTION: West	DESCRIPTION	This photograph shows the remaining concrete slabs of the former structure on the site.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 6/24/16
	PHOTOGRAPHER	Christin Russell	

TETRA TECH PROJECT NO. X9025.14.0002.019020 DIRECTION: North	DESCRIPTION	This photograph shows the remaining concrete slabs of the former structure on the site.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 6/24/16
	PHOTOGRAPHER	Christin Russell	

APPENDIX E

INTERVIEW DOCUMENTATION

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

SITE NAME: KCMO Municipal Farms (HEHS)

SITE ADDRESS: 8100 Ozark Road, Kansas City, Missouri, 64129

DATE: June 22, 2016

TETRA TECH PROJECT NUMBER: 103X9025140002.019.020

PREPARED BY:

How long have you owned/occupied the property?

GENERAL QUESTIONS REGARDING PROPERTY CONDITION

ASTM RELATED QUESTIONS

	QUESTION	Owner			Occupant			Observed			COMMENTS
		Y	N	U	Y	N	U	Y	N	U	
1a	Is the property used for an industrial use?		x								
1b	Is any adjoining property used for an industrial use?		x								
2a	Did you observe evidence or do you have any prior knowledge that the property has been used for an industrial use in the past?		x								
2b	Did you observe evidence or do you have any prior knowledge that the adjoining property has been used for an industrial use in the past?		x								
3a	Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? (If applicable, identify which.)	x									Property contains the Round Grove Creek Landfill on Raytown Rd.
3b	Is the adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? (If applicable, identify which.)		x								

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4900 Pearl East Circle, Suite 201W
Boulder, Colorado 80301

ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

	QUESTION	Owner			Occupant			Observed			COMMENTS
		Y	N	U	Y	N	U	Y	N	U	
4a	Did you observe evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment storage, disposal, processing, or recycling facility? (If applicable, identify which.)	x									See above note.
4b	Did you observe evidence or do you have any prior knowledge that the adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment storage, disposal, processing, or recycling facility? (If applicable, identify which.)		x								
5a	Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers of > 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?			x							
5b	Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers of > 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?	x									Reports of the Health Emergency HazMat Site (HEHS) are available for review.
6a	Are there currently any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?		x								
6b	Did you observe evidence or do you have any prior knowledge that there have been previously any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?		x								
7a	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated site?		x								
7b	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that is of an unknown origin?		x								

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ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

QUESTION		Owner			Occupant			Observed			COMMENTS
		Y	N	U	Y	N	U	Y	N	U	
8a	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?		x								
8b	Did you observe evidence or do you have any prior knowledge that there have been previously any pits, ponds or lagoons located on the property in connection with waste treatment or waste disposal?		x								
9a	Is there currently any stained soil on the property?			x							
9b	Did you observe evidence or do you have any prior knowledge that there has been previously any stained soil on the property?		x								
10a	Are there currently any registered or unregistered storage tanks (above or underground) located on the property?	x									USTs possibly located at National Guard facility in southeast corner.
10b	Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the property?	x									See note above.
11a	Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure on the property?			x							
11b	Did you observe evidence or do you have any prior knowledge that there have been previously any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?		x								
12a	Are there currently any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?		x								
12b	Did you observe evidence or do you have any prior knowledge that there have been previously any flooring, drains, or walls within the facility that are stained by substances other than water or were emitting foul odors?		x								

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ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

QUESTION		Owner			Occupant			Observed			COMMENTS
		Y	N	U	Y	N	U	Y	N	U	
13a	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		x								
13b	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?		x								
14	Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	x									Reports of the Health Emergency HazMat Site (HEHS) are available for review.
15a	Has the owner or occupant of the property been informed of the past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?	x									Reports of the Health Emergency HazMat Site (HEHS) are available for review.
15b	Has the owner or occupant of the property been informed of the current existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?		x								
15c	Has the owner or occupant of the property been informed of the past existence of environmental violations with respect to the property or any facility located on the property?	x									Reports of the Health Emergency HazMat Site (HEHS) are available for review.
15d	Has the owner or occupant of the property been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		x								
16	Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?	x									Reports of the Health Emergency HazMat Site (HEHS) are available for review.

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ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

	QUESTION	Owner			Occupant			Observed			COMMENTS
		Y	N	U	Y	N	U	Y	N	U	
17	Does the owner or occupant of the property know of any past, threatened , or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?	x									Reports of the Health Emergency HazMat Site (HEHS) are available for review.
18a	Does the property discharge waste water, on or adjacent to the property, other than storm water, into a storm water sewer system?			x							
18b	Does the property discharge waste water, on or adjacent to the property, other than storm water, into a sanitary sewer system?			x							
19	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property?	x									Illegal dumping has been observed. Reports of the Health Emergency HazMat Site (HEHS) are available for review.
20	Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?			x							
21	Is there any knowledge of a valuation reduction for the property based upon environmental issues?			x							
22a	Is there any knowledge of activity and use limitations placed on the property due to residual contamination?	x									Deed Restrictions related to the HEHS site are recorded.
22b	Is there any knowledge of activity and use limitations placed on adjacent properties due to residual contamination?		x								
23a	Is there any knowledge of the property being abandoned or evidence of unauthorized uses or uncontrolled access to the property?		x								
23b	Is there any knowledge of an adjacent property being abandoned or evidence of unauthorized uses or uncontrolled access to the property?			x							

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ASTM1527-13 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

GOVERNMENT RECORDS/HISTORICAL SOURCES INQUIRY

		Y	N	COMMENTS
32	Do any of the following Federal government record systems list the property or any property within the circumference of the area noted below:			
	National Priorities List – within 1.0 mile (1.6 Km)?		x	
	CERCLIS List – within 0.5 mile (0.8 Km)?	x		See Appendix Q to Municipal Farm AWBP.
	RCRA CORRACTS Facilities – within 1.0 mile (1.6 Km)?	x		See Appendix Q to Municipal Farm AWBP.
	RCRA non-CORRACTS TSD Facilities – within 0.5 mile (0.8 Km)?		x	
33	Do any of the following state record systems list the property or any property within the circumference of the area noted below:	Y	N	COMMENTS
	List maintained by state environmental agency of hazardous waste sites identified for investigation or remediation that is the state equivalent to National Priorities List – within 1.0 mile (1.6 Km)?			Unknown
	List maintained by state environmental agency of sites identified for investigation or remediation that is the state equivalent to CERCLIS List – within 0.5 mile (0.8 Km)?			
	Leaking Underground Storage Tank (LUST) List – within 0.5 mile (0.8 Km)?			
	Solid Waste/Landfill Facilities – within 0.5 mile (0.8 Km)?	x		Round Grove Creek Landfill.

		Y	N	N/A	COMMENTS
34	Based upon a review of fire insurance maps or consultation with the local fire department serving the property, all as specified in the guide, are any buildings or other improvements on the property or on an adjoining property identified as having been used for an industrial use or uses likely to lead to contamination of the property?				Unknown

KEY: ***Y = YES, N = NO, U = UNKNOWN, N/A = NOT APPLICABLE***

Prepared by: Andrew Bracker

Signature: electronically signed **Date:** 08/05/16 | **Signature:** **Date:**

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APPENDIX F

EDR RADIUS MAP WITH GEOCHECK

8100 Ozark Road
8100 Ozark Road
Kansas City, MO 64129

Inquiry Number: 4661124.2s
June 29, 2016

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

8100 OZARK ROAD
KANSAS CITY, MO 64129

COORDINATES

Latitude (North):	39.0429100 - 39˚ 2' 34.47''
Longitude (West):	94.4949070 - 94˚ 29' 41.66''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	370625.2
UTM Y (Meters):	4322393.5
Elevation:	897 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6725961 INDEPENDENCE, MO
Version Date:	2015
West Map:	6725963 KANSAS CITY, MO
Version Date:	2015

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140904, 20140704
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
8100 OZARK ROAD
KANSAS CITY, MO 64129

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	MUNICIPAL CORRECTION	8100 OZARK ROAD	RGA LUST		TP
A2	MUNICIPAL FARMS - MC	8100 OZARK ROAD	US BROWNFIELDS, FINDS, ECHO		TP
A3	K C M O HEALTH EMERG	8100 OZARK RD	RCRA-CESQG, FINDS, ECHO		TP
A4	MUNICIPAL CORRECTION	8100 OZARK RD	RGA LUST		TP
A5	MUNICIPAL CORRECTION	8100 OZARK RD	LUST, UST, SPILLS		TP
B6	POLICE HELIPORT	4601 EASTERN	UST	Lower	529, 0.100, WNW
B7	KANSAS CITY POLICE H	4601 EASTERN	RCRA-SQG	Lower	529, 0.100, WNW
8	BENS SERV STA GAS ST	4329 RAYTOWN RD	EDR Hist Auto	Lower	614, 0.116, NE
9	1704 SYCAMORE	1704 SYCAMORE	US BROWNFIELDS, FINDS, ECHO	Lower	845, 0.160, SSE
10	KANSAS CITY ARMORY	7600 OZARK RD	RCRA-CESQG, FINDS, ECHO	Higher	875, 0.166, SSW
C11	RAYTOWN ROAD	RAYTOWN RD & EASTERN	SEMS	Lower	1501, 0.284, North
C12	RAYTOWN ROAD SITE	RAYTOWN RD. AND EAST	SMARS	Lower	1506, 0.285, North

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
MUNICIPAL CORRECTION 8100 OZARK ROAD KANSAS CITY, MO	RGA LUST Facility ID: ST0007453	N/A
MUNICIPAL FARMS - MC 8100 OZARK ROAD KANSAS CITY, MO 64129	US BROWNFIELDS ACRES property ID: 165823 FINDS Registry ID:: 110056364526 ECHO	N/A
K C M O HEALTH EMERG 8100 OZARK RD KANSAS CITY, MO 64129	RCRA-CESQG EPA ID:: MOD985792217 FINDS Registry ID:: 110003962944 ECHO	MOD985792217
MUNICIPAL CORRECTION 8100 OZARK RD KANSAS CITY, MO	RGA LUST Facility ID: ST0007453	N/A
MUNICIPAL CORRECTION 8100 OZARK RD KANSAS CITY, MO 64129	LUST Facility Id: ST0007453 UST Facility Id: ST0007453 Tank Status: Removed SPILLS Facility Id: 9906081630BWH Spill Number: 9906081630BWH	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ..... Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Permitted Facility List

State and tribal leaking storage tank lists

LAST ..... Leaking Aboveground Storage Tanks
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing
AST ..... Aboveground Petroleum Storage Tanks
INDIAN UST ..... Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

State and tribal institutional control / engineering control registries

AUL ..... Sites with Controls

State and tribal voluntary cleanup sites

VCP ..... Voluntary Cleanup Program Site Listing
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ..... Solid Waste Recycling Facilities
HIST LF ..... Solid Waste Facility Database List
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
CDL ..... Environmental Emergency Response System
DEL SHWS ..... Registry Sites Withdrawn or Deleted
US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans

EXECUTIVE SUMMARY

RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
AIRS	Permit Facility Listing
COAL ASH	Coal Ash Disposal Sites
DRYCLEANERS	Drycleaners in Missouri Listing
Financial Assurance	Financial Assurance Information Listing
MINES	Industrial Mineral Mines Database
NPDES	Permitted Facility Listing
MO RRC	Certified Hazardous Waste Resource Recovery Facilities
UIC	Underground Injection Wells Database
FUELS PROGRAM	EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RAYTOWN ROAD	RAYTOWN RD & EASTERN	N 1/4 - 1/2 (0.284 mi.)	C11	35

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KANSAS CITY POLICE H	4601 EASTERN	WNW 0 - 1/8 (0.100 mi.)	B7	29

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KANSAS CITY ARMORY	***7600 OZARK RD***	***SSW 1/8 - 1/4 (0.166 mi.)***	***10***	***33***

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: Underground Storage Tank Information.

A review of the UST list, as provided by EDR, and dated 03/15/2016 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
POLICE HELIPORT Facility Id: ST0003132 Tank Status: Removed Tank Status: Curently in use	4601 EASTERN	WNW 0 - 1/8 (0.100 mi.)	B6	23

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/22/2015 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
1704 SYCAMORE	***1704 SYCAMORE***	***SSE 1/8 - 1/4 (0.160 mi.)***	***9***	***30***

Other Ascertainable Records

SMARS: SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.

A review of the SMARS list, as provided by EDR, and dated 04/12/2016 has revealed that there is 1 SMARS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RAYTOWN ROAD SITE	RAYTOWN RD. AND EAST	N 1/4 - 1/2 (0.285 mi.)	C12	37

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR

researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

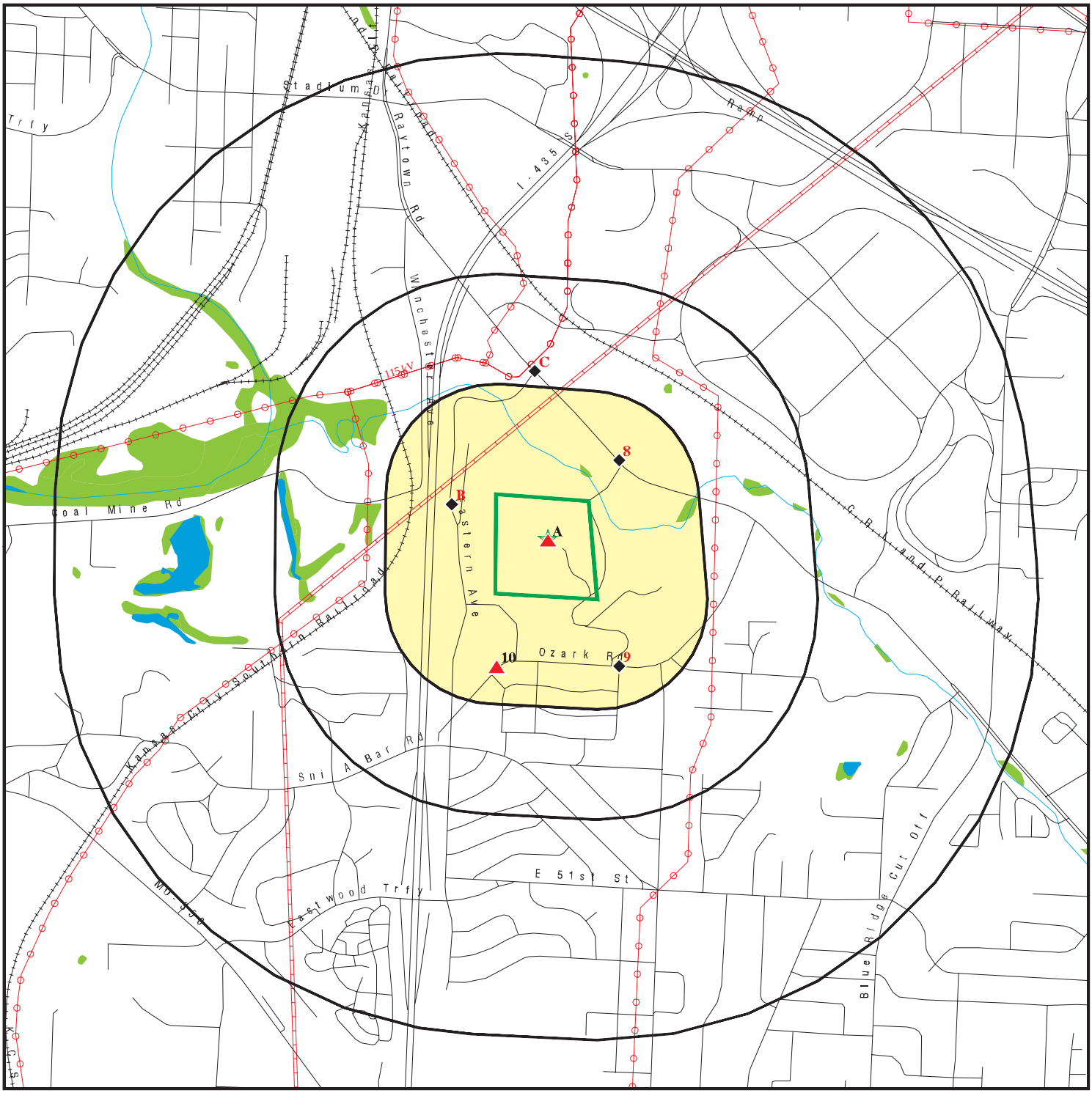
Lower Elevation	Address	Direction / Distance	Map ID	Page
BENS SERV STA GAS ST	4329 RAYTOWN RD	NE 0 - 1/8 (0.116 mi.)	8	30

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
BLUE RIVER PCB REMOVAL & DISPOSAL	SEMS-ARCHIVE
SUMMERS GAS STATION	LUST, UST

OVERVIEW MAP - 4661124.2S



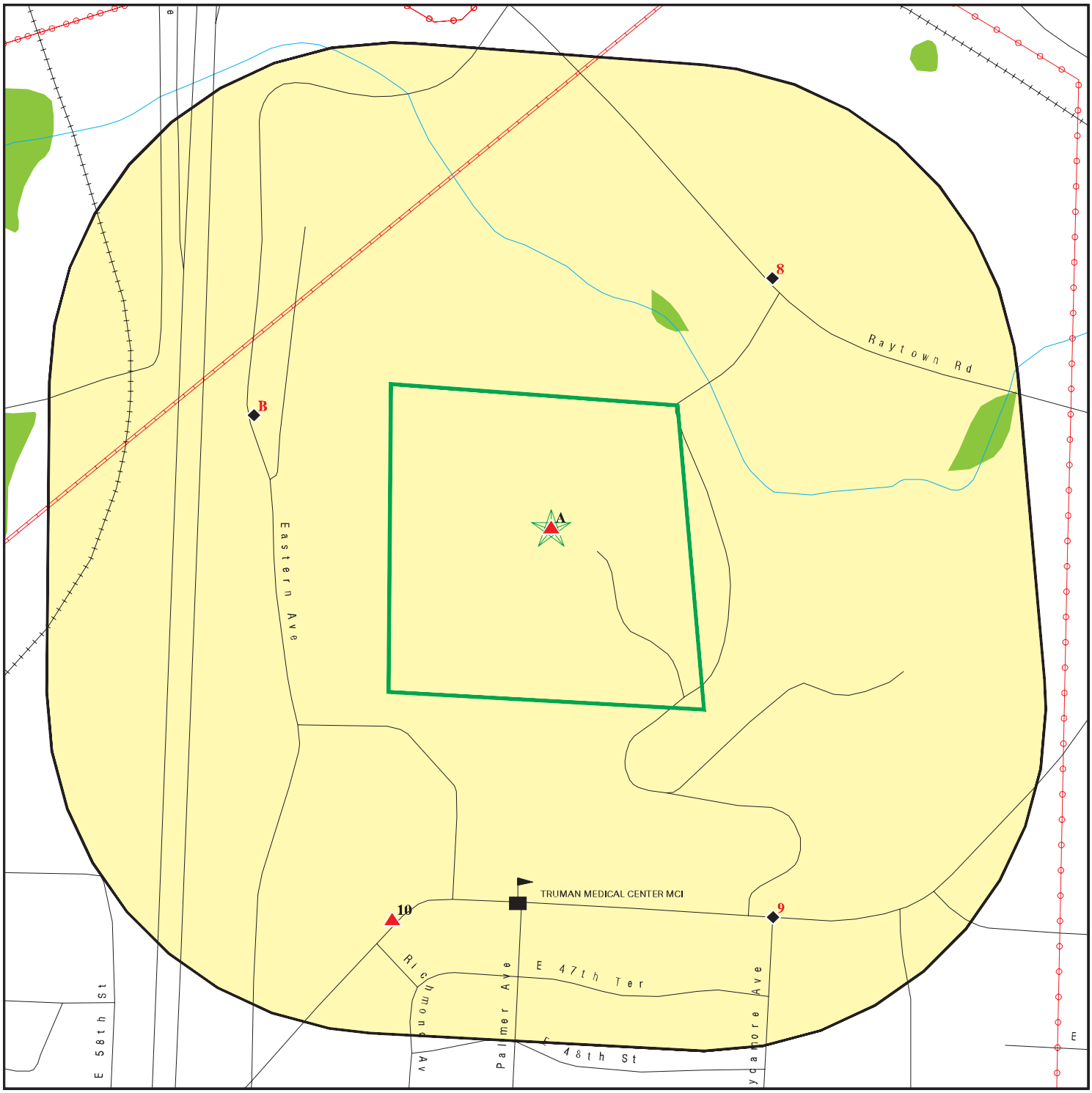
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 8100 Ozark Road	CLIENT: Tetra Tech EMI
ADDRESS: 8100 Ozark Road Kansas City MO 64129	CONTACT: Christin Russell
LAT/LONG: 39.04291 / 94.494907	INQUIRY #: 4661124.2s DATE: June 29, 2016 1:36 pm

DETAIL MAP - 4661124.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 8100 Ozark Road	CLIENT: Tetra Tech EMI
ADDRESS: 8100 Ozark Road Kansas City MO 64129	CONTACT: Christin Russell INQUIRY #: 4661124.2s
LAT/LONG: 39.04291 / 94.494907	DATE: June 29, 2016 1:38 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-CESQG	0.250	1	0	1	NR	NR	NR	2
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500	1	0	0	0	NR	NR	1
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250	1	1	0	NR	NR	NR	2
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500	1	0	1	0	NR	NR	2
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
SMARS	0.500		0	0	1	NR	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ECHO	TP	2	NR	NR	NR	NR	NR	2
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	2	NR	NR	NR	NR	NR	2
- Totals --		11	3	2	2	0	0	18

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **MUNICIPAL CORRECTIONAL INSTITUTION** | **RGA LUST** | **S116104350**
8100 OZARK ROAD | **N/A**
KANSAS CITY, MO

Site 1 of 5 in cluster A

Actual: 897 ft.

RGA LUST:

2000	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK ROAD
1999	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK ROAD
1998	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK ROAD
1997	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK ROAD

A2 Target Property | **MUNICIPAL FARMS - MCI SITE** | **US BROWNFIELDS** | **1016456942**
8100 OZARK ROAD | **FINDS** | **N/A**
KANSAS CITY, MO 64129 | **ECHO**

Site 2 of 5 in cluster A

Actual: 897 ft.

US BROWNFIELDS:

Recipient name:	R7 TBA (STAG Funded)
Grant type:	TBA
Property name:	MUNICIPAL FARMS - MCI SITE
Property #:	JA3242002010000000
Parcel size:	21.8
Property Description:	Not reported
Latitude:	39.0384699
Longitude:	-94.4973431
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	165823
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	5500
Assessment funding source:	US EPA - TBA Funding
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	n/a
Ownership entity:	Government
Current owner:	City of Kansas City, Missouri
Did owner change:	N
Cleanup required:	No
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported

MUNICIPAL FARMS - MCI SITE (Continued) **1016456942**

IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	21.8
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported

MUNICIPAL FARMS - MCI SITE (Continued) **1016456942**

Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	R7 TBA (STAG Funded)
Grant type:	TBA
Property name:	MUNICIPAL FARMS - MCI SITE
Property #:	JA3242002010000000
Parcel size:	21.8
Property Description:	Not reported
Latitude:	39.0384699
Longitude:	-94.4973431
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	165823
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	21000
Assessment funding source:	US EPA - TBA Funding
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	n/a
Ownership entity:	Government
Current owner:	City of Kansas City, Missouri
Did owner change:	N
Cleanup required:	No

MUNICIPAL FARMS - MCI SITE (Continued) **1016456942**

Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	21.8
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported

MUNICIPAL FARMS - MCI SITE (Continued) **1016456942**

Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

FINDS:

Registry ID: 110056364526

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016456942
Registry ID:	110056364526
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110056364526

A3 Target Property | **K C M O HEALTH EMERG HAZMAT SITE** | **RCRA-CESQG** | **1000881856**
8100 OZARK RD | **FINDS** | **MOD985792217**
KANSAS CITY, MO 64129 | **ECHO**

Site 3 of 5 in cluster A

Actual: 897 ft.

RCRA-CESQG:

Date form received by agency:	06/01/2005
Facility name:	K C M O HEALTH EMERG HAZMAT SITE
Facility address:	8100 OZARK RD KANSAS CITY, MO 64129

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

EPA ID:	MOD985792217
Mailing address:	E 11TH ST 18TH FLR KANSAS CITY, MO 64106
Contact:	ANDREW SAVASTINO
Contact address:	324 E 11TH ST 18TH FLR KANSAS CITY, MO 64106
Contact country:	US
Contact telephone:	(816) 274-1000
Contact email:	Not reported
EPA Region:	07
Land type:	Municipal
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	CITY OF KANSAS CITY MO
Owner/operator address:	414 E 12TH ST KANSAS CITY, MO 64106
Owner/operator country:	Not reported
Owner/operator telephone:	(816) 274-1000
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

Historical Generators:

Date form received by agency: 12/11/2000
Site name: K C M O HEALTH EMERG HAZMAT SITE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 12/28/1998
Site name: K C M O HEALTH EMERG HAZMAT SITE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/26/1994
Site name: K C M O HEALTH EMERGENCY
Classification: Large Quantity Generator

Date form received by agency: 03/23/1993
Site name: K C M O HEALTH EMERG HAZMAT SITE
Classification: Large Quantity Generator

. Waste code: NONE
. Waste name: None

Facility Has Received Notices of Violations:

Regulation violated: SR - A02
Area of violation: Generators - General
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/19/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - A02
Area of violation: Generators - General
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - B04
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/19/1993

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - D01
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 02/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 100000
Paid penalty amount: 100000

Regulation violated: SR - D01
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - B04
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - B14
Area of violation: Generators - General
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/19/1993
Enf. disposition status: Not reported

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - A02
Area of violation: Generators - General
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 02/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 100000
Paid penalty amount: 100000

Regulation violated: SR - B01
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 02/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 100000
Paid penalty amount: 100000

Regulation violated: SR - D01
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/19/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - B01
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - B01
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/19/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - B14
Area of violation: Generators - General
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - B04
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 02/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 100000
Paid penalty amount: 100000

Regulation violated: SR - B14
Area of violation: Generators - General
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 02/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

Proposed penalty amount: Not reported
Final penalty amount: 100000
Paid penalty amount: 100000

Regulation violated: SR - B01
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/1993
Date achieved compliance: 01/31/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/23/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 03/23/1993
Date achieved compliance: 02/23/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/23/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 03/23/1993
Date achieved compliance: 02/23/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/11/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/23/1996
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

Evaluation lead agency: State

Evaluation date: 01/31/1996
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/19/1993
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/23/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 02/23/1996
Evaluation lead agency: State

Evaluation date: 03/23/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/31/1996
Evaluation lead agency: State

Evaluation date: 03/23/1993
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/23/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 01/31/1996
Evaluation lead agency: State

FINDS:

Registry ID: 110003962944

Environmental Interest/Information System

The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

K C M O HEALTH EMERG HAZMAT SITE (Continued) **1000881856**

ECHO:

Envid:	1000881856
Registry ID:	110003962944
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003962944

A4 Target Property | **MUNICIPAL CORRECTIONAL INSTITUTION** | **RGA LUST** | **S116104349**
8100 OZARK RD | **N/A**
KANSAS CITY, MO

Site 4 of 5 in cluster A

Actual: 897 ft.

RGA LUST:

2012	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2011	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2010	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2008	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2007	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2006	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2005	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2004	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2003	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD
2002	MUNICIPAL CORRECTIONAL INSTITUTION	8100 OZARK RD

A5 Target Property | **MUNICIPAL CORRECTIONAL INSTITUTION** | **LUST** | **U000754397**
8100 OZARK RD | **UST** | **N/A**
KANSAS CITY, MO 64129 | **SPILLS**

Site 5 of 5 in cluster A

Actual: 897 ft.

LUST:

Facility ID:	ST0007453
Region:	KC - Kansas City Regional Office
Lat/Long (dms):	Not reported
Spill Number:	Not reported
Release Date:	04/04/1994
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	04/08/1994
Date Cleanup Finished:	09/12/1994
Expedited:	No
Expedited Date:	Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Reopened Date:	Not reported
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**Not reported**
Date Record Meets Archive Criteria:	Not reported
Remediation ID:	R004948
Rank:	Not reported
Emergeny Response Date:	Not reported
Emergency Cleanup Start:	Not reported
Referred To DGLS for Investigation:	Not reported
Contractor Performing Clean Up:	Not reported
RBCA NFA:	No
Project Manager:	L
Next Correspondence/Update With Fac:	Not reported
Date Added:	06/30/1995
Date Record Edited:	Not reported

MUNICIPAL CORRECTIONAL INSTITUTION (Continued) **U000754397**

Person Adding Or Editing Record:	Not reported
Facility Sent To State Archive:	Yes
Date Remediation Unit Closed The File:	Not reported
Site Affectd By Funding Level From PSTIF:	No
General Comments:	09-23-94 - MTM - ONE 5,000 GALLON GASOLINE UST REMOVED - OVEREXCAVATED CONTAMINATION - CLOSED.

UST:

Facility ID:	ST0007453
Region:	KC
Easting:	370819
Northing:	4322148.54
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	VANCE, S
Date GIS Data Collected:	08/26/2013
Lat/Long:	39.0386361 / -94.491220
Lat/Long (dms):	Not reported

Tanks:

Owner:

Owner ID:	OW10279
Owner Name:	CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address:	5300 MUNICIPAL AVENUE
Owner City,St,Zip:	KANSAS CITY, MO 64120
Owner County Code:	95
Owner Phone:	5139403
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2009-09-28 00:00:00
Name of Person Editing Record:	KIRCHNER, M

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	No
Date Tank Installed:	Not reported
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Not reported
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Unknown
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	09/28/1994
Date Tank Permanently Closed/ Removed:	09/28/1994
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported

MUNICIPAL CORRECTIONAL INSTITUTION (Continued) **U000754397**

Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	Not reported
Person Adding/Editing Record:	Not reported
Date Of NFA Letter:	09/28/1994
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	03/17/1994
Date Of Aprroval Letter:	1994-09-28 00:00:00
Firm Closing Tank:	PROGRESSIVE ENVIRONMENTAL
Date Closure Report Received:	Not reported
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	1-5000 GAL GAS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	18833
Tank PK:	18833
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	5000
Substance:	Gasoline, Including Blends
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1994-09-28 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	Not reported
Pipe Material:	0
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0007453
Tank Id:	1
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

MUNICIPAL CORRECTIONAL INSTITUTION (Continued) **U000754397**

MO SPILLS:

Facility ID:	9906081630BWH
Regional Office:	KCRO
Spill Number:	9906081630BWH
Date Reported:	06/08/1999
Call Date/time:	16:30:00
Lat/Long:	39.038742 -94.491325
UTM Zone For GPS:	15
Discovery Date:	06/08/1999
Email:	False
Is This A Continuous Release To Be Monitered?:	False
Cause:	Discharge/Air Emission
Contact Name:	City of Kansas City
Contact Phone #:	0000000000
Contact Id:	{EA63891F-BB0B-4A57-8012-AD2239487E10}
Organization Name:	Municipal Correction Facility
Organization Address1:	8100 Ozark Road
Organization Address2:	Not reported
Organization City:	Kansas City
Organization State:	MO
Organization Zip:	Not reported
Entity Phone #:	0000000000
Date Of Incident Search:	06/08/1999
Property Code Description:	Sewer/WWTF
Property Sub Category:	Not reported
Cause Description:	Discharge/Air Emission
Cause Sub Category:	Not reported
Description:	Other - Unknown
Job Code:	Not reported
Additional Info:	Spill Summary: CALLER REPORTS A SEWER PIPE FROM THE RP'S FACILITY ROUTINELY BREAKS CAUSING A DISCHARGE TO A CREEK.Response Summary: EER REFERRED THIS INFORMATION TO KCRO AS A CITIZEN'S COMPLAINT.Additional Information: SUPERINTENDENT OF FACILITY IS JOHN VOGELMAINTENANCE SUPERVISOR IS JOHN MILLSPIPE IS CURRENTLY BROKEN AND CREEK CONTAINS BLUE WATER.
Spill Num:	9906081630BWH
Agent Code:	418
Agency Receiving Copy of Incident Report:	DNR - Kansas City Regional Office
Immediate Or Delayed:	D
User Name:	DNR - Kansas City Regional Office

B6 **POLICE HELIPORT** **UST** **U003555848**
WNW **4601 EASTERN** **N/A**
< 1/8 **KANSAS CITY, MO 64129**
0.100 mi.
529 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
842 ft.

UST:

Facility ID:	ST0003132
Region:	KC
Easting:	370424.880
Northing:	4322904.76
Owner Of Geospatial Data:	Not reported
Geospatial Data Collected By:	INT_STEINBECK,Eli
Date GIS Data Collected:	08/07/2014
Lat/Long:	39.0958 / -94.49819

POLICE HELIPORT (Continued) **U003555848**

Lat/Long (dms): Not reported

Tanks:

Owner:

Owner ID:	OW10279
Owner Name:	CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address:	5300 MUNICIPAL AVENUE
Owner City,St,Zip:	KANSAS CITY, MO 64120
Owner County Code:	95
Owner Phone:	5139403
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2009-09-28 00:00:00
Name of Person Editing Record:	KIRCHNER, M

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	Yes
Date Tank Installed:	01/01/1971
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Yes
Other Tank Internal Protection:	I Lining SW1856
Tank Internal Protection Date:	04/21/1993
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	02/28/2005
Date Tank Permanently Closed/ Removed:	12/27/2006
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	CM
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	06/12/2008
Person Adding/Editing Record:	HANSEN, M
Date Of NFA Letter:	07/31/2006
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	12/02/2005
Date Of Aprroval Letter:	2005-12-13 00:00:00
Firm Closing Tank:	BURNS & MCDONNELL
Date Closure Report Received:	2006-03-08 00:00:00
Registration End Date:	2010-09-30 00:00:00
LockOut Flag:	No
Comments:	Reviewed closure report. Still need to analyzed for PAHs. Lab analysis did not include QA/QC. Laboratory chain-of-custody did not report the storage temperature for the sample. Site map did not

POLICE HELIPORT (Continued) **U003555848**

include underground utilities and direction of slope. MW
05/30/2006Reviewed correspondence. Issued NFA for this tank. MW
7/31/06

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	7487
Tank PK:	7487
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	10000
Substance:	Kerosene
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	2005-02-28 00:00:00
Pipe Installation Date:	1993-06-01 00:00:00
Pipe System:	1
Pipe Material:	2
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	1993-06-01 00:00:00
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW10279
Owner Name:	CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address:	5300 MUNICIPAL AVENUE
Owner City,St,Zip:	KANSAS CITY, MO 64120
Owner County Code:	95
Owner Phone:	5139403
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2009-09-28 00:00:00
Name of Person Editing Record:	KIRCHNER, M

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	No
Date Tank Installed:	01/01/1971
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	No
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Unknown

POLICE HELIPORT (Continued) **U003555848**

Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	06/04/1993
Date Tank Permanently Closed/ Removed:	01/31/1994
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	07/13/2005
Person Adding/Editing Record:	PURVIS, K
Date Of NFA Letter:	01/31/1994
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/04/1993
Date Of Aprroval Letter:	1994-01-31 00:00:00
Firm Closing Tank:	DOUBLE CHECK
Date Closure Report Received:	1994-01-25 00:00:00
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	Not reported

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	7488
Tank PK:	7488
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	200
Substance:	Used Oil
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1993-06-04 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	4
Pipe Material:	0
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW10279
Owner Name:	CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address:	5300 MUNICIPAL AVENUE
Owner City,St,Zip:	KANSAS CITY, MO 64120
Owner County Code:	95
Owner Phone:	5139403
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes

POLICE HELIPORT (Continued) **U003555848**

Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2009-09-28 00:00:00
Name of Person Editing Record:	KIRCHNER, M

Tank ID:	3
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Curently in use**
Meet 98 Update Requirements:	Yes
Date Tank Installed:	08/01/1993
Tank Material:	Fiberglass
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Not reported
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	Not reported
Date Tank Permanently Closed/ Removed:	Not reported
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/07/1996
Date Record Edited:	05/02/2013
Person Adding/Editing Record:	SESSLER, D
Date Of NFA Letter:	Not reported
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	Not reported
Date Of Aprroval Letter:	Not reported
Firm Closing Tank:	Not reported
Date Closure Report Received:	Not reported
Registration End Date:	2020-09-30 00:00:00
LockOut Flag:	No
Comments:	Not reported

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	7489
Tank PK:	7489
Case Number:	Not reported
Compartment Status:	Curently in use
Compartment Temp Verified Dt:	Not reported
Capacity:	560
Substance:	Used Oil
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	Not reported

POLICE HELIPORT (Continued) **U003555848**

Pipe Installation Date:	1993-08-01 00:00:00
Pipe System:	4
Pipe Material:	2
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	True

Tank Aug 2011:

Facility Id:	ST0003132
Tank Id:	1
Site Usage:	1
Risk Type:	3
Soil Type:	Not reported
GW Flow:	34
Offsite Impact:	17
Free Product:	0
Drinking Water:	42
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0003132
Tank Id:	2
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0003132
Tank Id:	3
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported

POLICE HELIPORT (Continued) **U003555848**

No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

B7 WNW < 1/8 0.100 mi. 529 ft. **KANSAS CITY POLICE HELICOPTER** **RCRA-SQG** **1012182766**
4601 EASTERN **MOR000534834**
KANSAS CITY, MO 64129

Site 2 of 2 in cluster B

Relative: Lower

Actual: 842 ft.

RCRA-SQG:

Date form received by agency:	09/04/2009
Facility name:	KANSAS CITY POLICE HELICOPTER
Facility address:	4601 EASTERN KANSAS CITY, MO 64129
EPA ID:	MOR000534834
Mailing address:	EASTERN KANSAS CITY, MO 64129
Contact:	DARWIN ULLEDAHL
Contact address:	EASTERN KANSAS CITY, MO 64129
Contact country:	US
Contact telephone:	(816) 929-2700
Contact email:	DARWIN.ULLEDAHL@KCPD.ORG
EPA Region:	07
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	KANSAS CITY POLICE DEPT
Owner/operator address:	EASTERN KANSAS CITY, MO 64129
Owner/operator country:	US
Owner/operator telephone:	(816) 929-2700
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/04/2009
Owner/Op end date:	Not reported

Owner/operator name:	KANSAS CITY POLICE DEPT
Owner/operator address:	EASTERN KANSAS CITY, MO 64129
Owner/operator country:	US
Owner/operator telephone:	(816) 929-2700
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/04/2009
Owner/Op end date:	Not reported

KANSAS CITY POLICE HELICOPTER (Continued) **1012182766**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

8
NE
< 1/8
0.116 mi.
614 ft.

BENS SERV STA GAS STA **EDR Hist Auto** **1013774541**
4329 RAYTOWN RD **N/A**
KANSAS CITY, MO

Relative:
Lower

Actual:
767 ft.

EDR Historical Auto Stations:

Name: BENS SERVICE STA
Year: 1951
Type: GASOLINE STATIONS

Name: BENS SERV STA GAS STA
Year: 1956
Type: GASOLINE STATIONS

Name: CHAMPLIN OIL & GAS
Year: 1961
Type: GASOLINE STATIONS

Name: CHAMPLIN OIL & GAS GAS
Year: 1966
Type: GASOLINE STATIONS

9
SSE
1/8-1/4
0.160 mi.
845 ft.

1704 SYCAMORE **US BROWNFIELDS** **1016345289**
1704 SYCAMORE **FINDS** **N/A**
KANSAS CITY, MO 64129 **ECHO**

Relative:
Lower

Actual:
882 ft.

US BROWNFIELDS:

Recipient name:	Kansas City, City of
Grant type:	Assessment
Property name:	1704 SYCAMORE
Property #:	Not reported
Parcel size:	.5

1704 SYCAMORE (Continued) **1016345289**

Property Description:	Not reported
Latitude:	39.03877
Longitude:	-94.491889
HCM label:	Not reported
Map scale:	Not reported
Point of reference:	Not reported
Datum:	Not reported
ACRES property ID:	15508
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	301.74
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	N/A
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	98737001
Ownership entity:	Not reported
Current owner:	Kansas City Municipal Corporation
Did owner change:	Not reported
Cleanup required:	Not reported
Video available:	No
Photo available:	No
Institutional controls required:	Not reported
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Unknown
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Not reported

1704 SYCAMORE (Continued) **1016345289**

Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported

1704 SYCAMORE (Continued) **1016345289**

Unknown media cleaned up: Not reported
Past Use: Multistory Not reported

FINDS:

Registry ID: 110038693223

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:
Envid: 1016345289
Registry ID: 110038693223
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110038693223

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10 SSW 1/8-1/4 0.166 mi. 875 ft. | **KANSAS CITY ARMORY** | **RCRA-CESQG** | **1001220867**
7600 OZARK RD | **FINDS** | **MOR000002725**
KANSAS CITY, MO 64129 | **ECHO**

Relative: Higher

Actual: 953 ft.

RCRA-CESQG:
Date form received by agency: 03/22/2001
Facility name: KANSAS CITY ARMORY
Facility address: 7600 OZARK RD
KANSAS CITY, MO 641292095
EPA ID: MOR000002725
Mailing address: OZARK RD
KANSAS CITY, MO 641292095
Contact: FREDERICK KRABBE
Contact address: 7600 OZARK RD
KANSAS CITY, MO 641292095
Contact country: US
Contact telephone: (816) 889-3263
Contact email: Not reported
EPA Region: 07
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

KANSAS CITY ARMORY (Continued) **1001220867**

Owner/operator name: MISSOURI NATIONAL GUARD
Owner/operator address: 2302 MILITIA DR
JEFFERSON CITY, MO 65101
Owner/operator country: Not reported
Owner/operator telephone: (573) 526-9500
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/30/1995
Site name: KANSAS CITY ARMORY
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003979838

Environmental Interest/Information System
The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1001220867

KANSAS CITY ARMORY (Continued) **1001220867**

Registry ID: 110003979838
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110003979838

C11 North 1/4-1/2 0.284 mi. 1501 ft. | **RAYTOWN ROAD**
RAYTOWN RD & EASTERN AVE
KANSAS CITY, MO 64133 | **SEMS** | **1000418162**
MOD980631600

Site 1 of 2 in cluster C

Relative: Lower

Actual: 765 ft.

SEMS:

Site ID:	701195
EPA ID:	MOD980631600
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0701195
EPA ID:	MOD980631600
Facility County:	JACKSON
Short Name:	RAYTOWN ROAD
Congressional District:	05
IFMS ID:	A781
SMSA Number:	3760
USGC Hydro Unit:	10300101
Federal Facility:	Not a Federal Facility
DMNSN Number:	32.70000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	INDEPENDENCE
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	07
Classification:	Other
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	ACRE
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Referred to Removal - NFRAP
Non NPL Status Date:	09/29/04
Site Fips Code:	29095
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	7271582.00000
Contact Name:	JAMIE BERNARD DRAKEY
Contact Tel:	(913) 551-7400
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

RAYTOWN ROAD (Continued) **1000418162**

CERCLIS Site Alias Name(s):

Alias ID:	201
Alias Name:	RAYTOWN ROAD CLOSED LANDFILL (FINDS)
Alias Address:	Not reported
	MO
Alias ID:	202
Alias Name:	RAYTOWN ROAD LANDFILL
Alias Address:	Not reported
	Not reported
Alias ID:	203
Alias Name:	RAYTOWN ROAD SITE
Alias Address:	RAYTOWN RD & EASTERN AVE
	KANSAS CITY, MO 64133
Alias ID:	202
Alias Comments:	Not reported

Site Description: Not reported

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	06/01/81
Priority Level:	Not reported
Operable Unit:	SITE EVALUATION/DISPOSITION
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SITE INSPECTION
Date Started:	03/01/82
Date Completed:	04/01/82
Priority Level:	Low priority for further assessment
Operable Unit:	SITE EVALUATION/DISPOSITION
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	04/01/82
Date Completed:	04/01/82
Priority Level:	Low priority for further assessment
Operable Unit:	SITE EVALUATION/DISPOSITION
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

RAYTOWN ROAD (Continued) **1000418162**

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	EXPANDED SITE INSPECTION
Date Started:	11/01/99
Date Completed:	11/01/00
Priority Level:	Recommended for HRS Scoring
Operable Unit:	SITE EVALUATION/DISPOSITION
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	HAZARD RANKING SYSTEM PACKAGE
Date Started:	07/16/01
Date Completed:	09/24/04
Priority Level:	Referred to Removal, no further Rmdl Asmt
Operable Unit:	SITE EVALUATION/DISPOSITION
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	STATE SUPPORT AGENCY COOPERATIVE AGREEMENT
Date Started:	05/30/06
Date Completed:	03/31/09
Priority Level:	Not reported
Operable Unit:	SITE EVALUATION/DISPOSITION
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Click this hyperlink while viewing on your computer to access
73 additional US CERCLIS Financial: record(s) in the EDR Site Report.

C12 **RAYTOWN ROAD SITE** **SMARS** **S112443736**
North **RAYTOWN RD. AND EASTERN AVE.** **N/A**
1/4-1/2 **RAYTOWN, MO 64133**
0.285 mi.
1506 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
765 ft.

SMARS:

SM Number:	11097
CERCLIS:	MOD980631600
Ownership:	Superfund
Superfund Ownership:	True
Voluntary Cleanup Ownership:	False
Federal Facilities Ownership:	False
Permits Ownership:	False

RAYTOWN ROAD SITE (Continued) **S112443736**

NPL Date:	Not reported
Tank Site Identification #:	Not reported
Tank Remediation #:	Not reported
Registry:	False
Site Code:	Not reported
Other Site Code:	A781

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KANSAS CITY	1003876873	BLUE RIVER PCB REMOVAL & DISPOSAL	MANCHESTER TRFY EXTENSION	64129	SEMS-ARCHIVE
RAYTOWN	U003980723	SUMMERS GAS STATION	HWY 350 & RAYTOWN RD	64133	LUST, UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 04/08/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/16/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 11/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/19/2016
Number of Days to Update: 45

Source: Department of Natural Resources
Telephone: 573-751-1990
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Quarterly

HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includeds the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/19/2015
Number of Days to Update: 9

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 07/02/5007
Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/20/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 04/07/2016
Number of Days to Update: 44

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 05/17/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 53

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Semi-Annually

LAST: Leaking Aboveground Storage Tanks
A listing of leaking aboveground storage tanks.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 53

Source: Department of Natural Resources
Telephone: 573-751-6822
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

UST: Petroleum Storage Tanks
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 53

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 52

Source: Department of Agriculture
Telephone: 573-751-7062
Last EDR Contact: 06/06/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

State and tribal institutional control / engineering control registries

AUL: Sites with Controls
Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 01/08/2016
Date Data Arrived at EDR: 02/18/2016
Date Made Active in Reports: 04/07/2016
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 05/19/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

VCP: Sites Participating in the Voluntary Cleanup Program
Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 01/08/2016
Date Data Arrived at EDR: 02/18/2016
Date Made Active in Reports: 04/07/2016
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 05/19/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List
Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 01/08/2016
Date Data Arrived at EDR: 02/18/2016
Date Made Active in Reports: 04/07/2016
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 05/19/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: Solid Waste Facility Database List
This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

SWRCY: Solid Waste Recycling Facilities
A listing of recycling center locations.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 03/31/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 40

Source: Department of Natural Resources
Telephone: 573-526-3944
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/18/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 88

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

CDL: Environmental Emergency Response System
Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 54

Source: Department of Natural Resources
Telephone: 573-751-3443
Last EDR Contact: 06/16/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

DEL SHWS: Registry Sites Withdrawn or Deleted
A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 11/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/19/2016
Number of Days to Update: 45

Source: Department of Natural Resources
Telephone: 573-522-3710
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/18/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 88

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 54

Source: Department of Natural Resources
Telephone: 573-526-3349
Last EDR Contact: 06/16/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/10/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/09/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/10/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/11/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 80

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/07/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (913) 551-7003
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 06/20/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Varies

AIRS: Permit Facility Listing
A listing of Air Pollution Control Program permits.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 04/01/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 39

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites
A listing of power plants with coal ash ponds.

Date of Government Version: 01/14/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 32

Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaners in Missouri Listing
A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 11/13/2015
Date Data Arrived at EDR: 12/21/2015
Date Made Active in Reports: 02/19/2016
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 06/16/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information.

Date of Government Version: 03/09/2016
Date Data Arrived at EDR: 03/11/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-751-3553
Last EDR Contact: 06/06/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 03/08/2016
Date Data Arrived at EDR: 03/09/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 62

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

MINES: Industrial Mineral Mines Database

This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 09/12/2014
Date Data Arrived at EDR: 10/23/2014
Date Made Active in Reports: 12/01/2014
Number of Days to Update: 39

Source: Department of Natural Resources
Telephone: 573-751-4041
Last EDR Contact: 04/22/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 04/05/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 32

Source: Department of Natural Resources
Telephone: 573-751-7023
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 03/11/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 55

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Semi-Annually

SMARS: Site Management and Reporting System

SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.

Date of Government Version: 04/12/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 16

Source: Department of Natural Resources
Telephone: 573-751-3043
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 05/10/2016
Number of Days to Update: 53

Source: Department of Natural Resources
Telephone: 573-368-2183
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List
The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/06/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/06/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Care Facilities
Source: Department of Health & Senior Services
Telephone: 573-751-2450

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

8100 OZARK ROAD
8100 OZARK ROAD
KANSAS CITY, MO 64129

TARGET PROPERTY COORDINATES

Latitude (North):	39.04291 - 39˚ 2' 34.48''
Longitude (West):	94.494907 - 94˚ 29' 41.67''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	370625.2
UTM Y (Meters):	4322393.5
Elevation:	897 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6725961 INDEPENDENCE, MO
Version Date:	2015
West Map:	6725963 KANSAS CITY, MO
Version Date:	2015

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

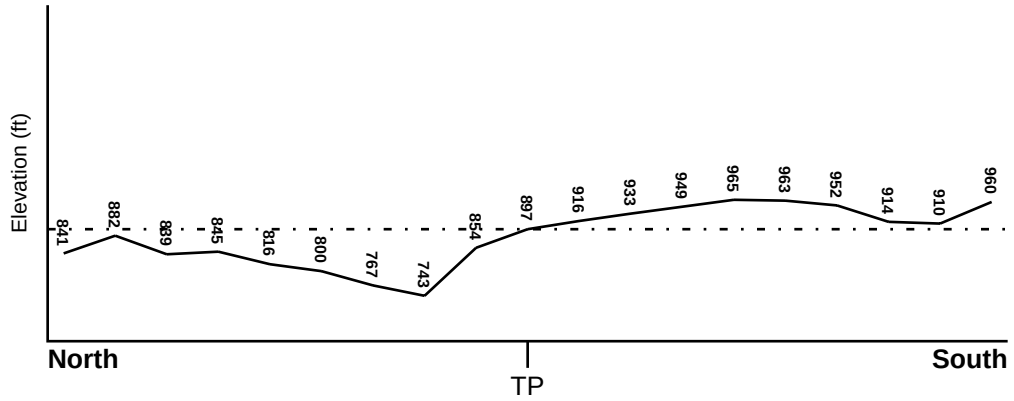
TOPOGRAPHIC INFORMATION

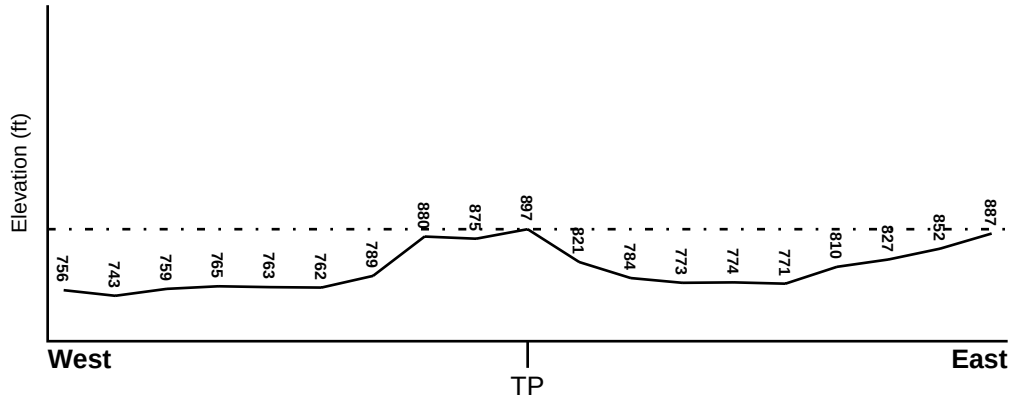
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 897 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
JACKSON, MO	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 29095C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
INDEPENDENCE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

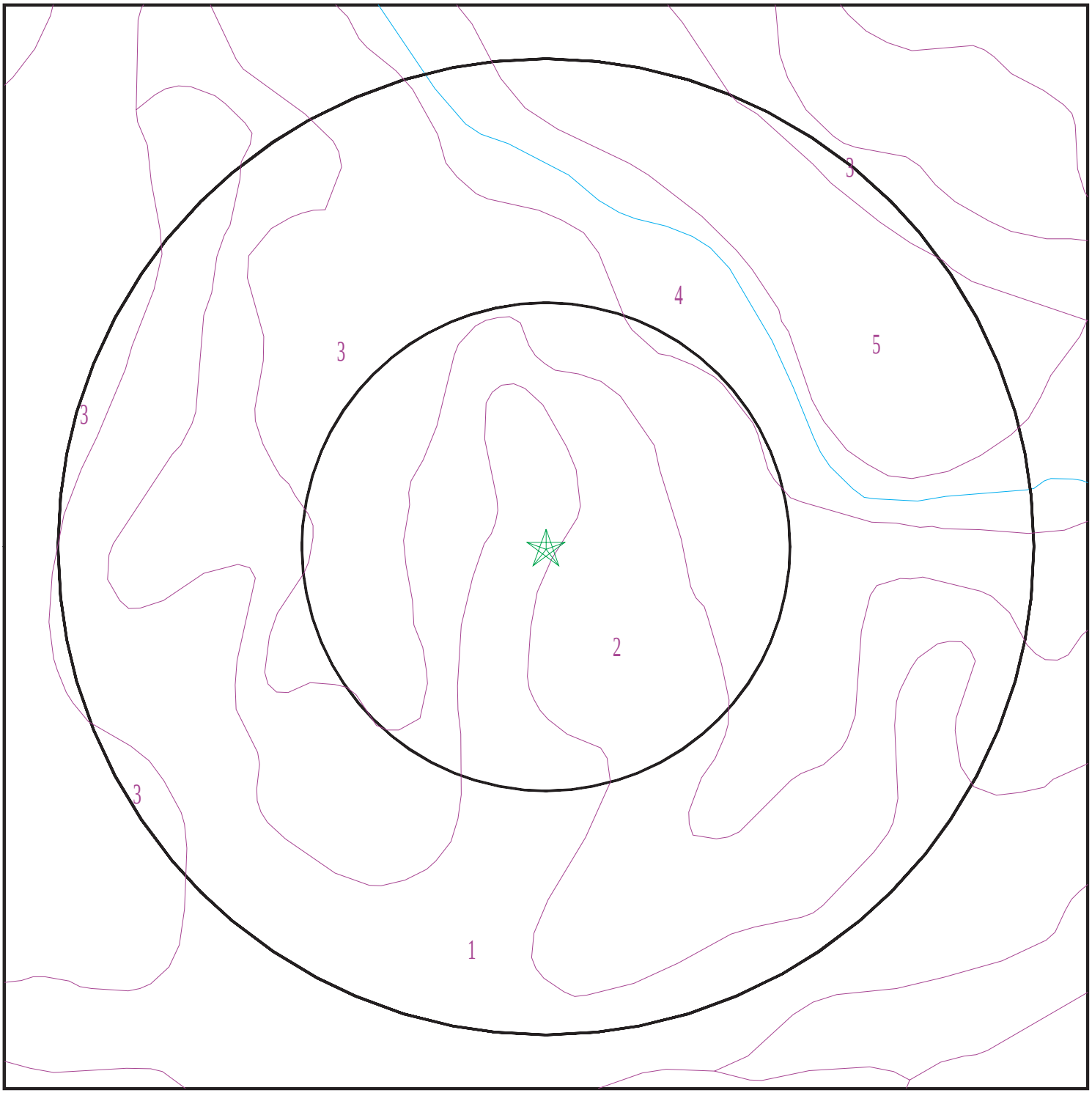
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4661124.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: 8100 Ozark Road ADDRESS: 8100 Ozark Road Kansas City MO 64129 LAT/LONG: 39.04291 / 94.494907	CLIENT: Tetra Tech EMI CONTACT: Christin Russell INQUIRY #: 4661124.2s DATE: June 29, 2016 1:40 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Knox

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	11 inches	61 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	61 inches	70 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: Knox

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	3 inches	29 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	29 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: Snead

Soil Surface Texture: flaggy silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
2	11 inches	31 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	31 inches	40 inches	bedrock	Not reported	Not reported	Max: 0.11 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: Kennebec

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 5

Soil Component Name: Udifluvents

Soil Surface Texture:

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches		Not reported	Not reported	Max: Min:	Max: Min:
2	59 inches	79 inches		Not reported	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000697308	1/4 - 1/2 Mile ESE
2	USGS40000697329	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	MOLOG1000021835	1/2 - 1 Mile NW
4	MOLOG1000021712	1/2 - 1 Mile SE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

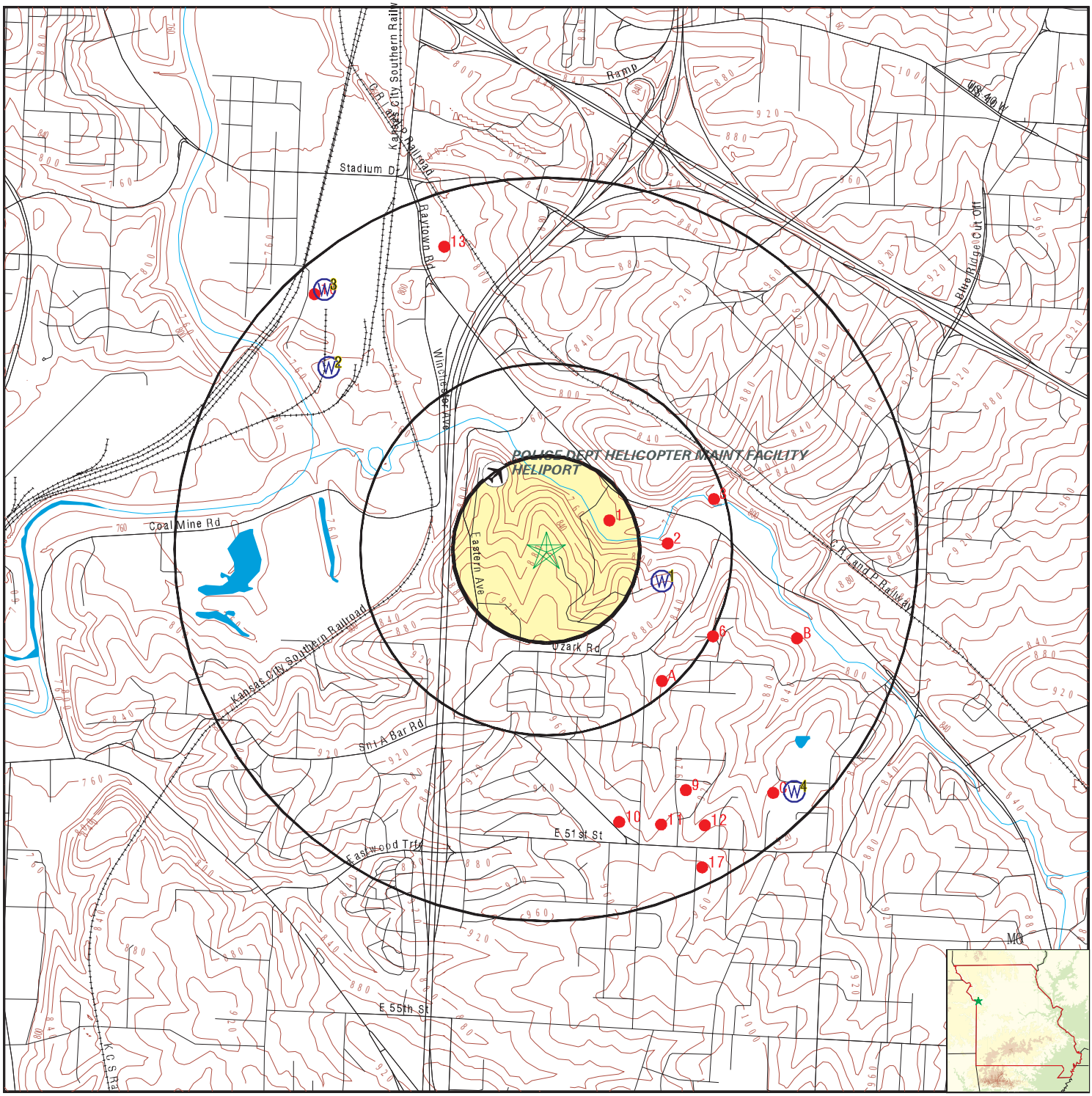
MAP ID	WELL ID	LOCATION FROM TP
1	MOOG50000003887	1/8 - 1/4 Mile ENE
2	MOOG50000005228	1/4 - 1/2 Mile East
3	MOOG50000005234	1/4 - 1/2 Mile ENE
A5	MOOG50000005233	1/4 - 1/2 Mile SE
A4	MOOG50000005232	1/4 - 1/2 Mile SE
6	MOOG50000005454	1/2 - 1 Mile ESE
B8	MOOG50000005230	1/2 - 1 Mile ESE
B7	MOOG50000005229	1/2 - 1 Mile ESE
9	MOOG50000004001	1/2 - 1 Mile SSE
10	MOOG50000005231	1/2 - 1 Mile SSE
11	MOOG50000005227	1/2 - 1 Mile SSE
12	MOOG50000005226	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
13	MOOG50000005315	1/2 - 1 Mile NNW
C14	MOOG50000005225	1/2 - 1 Mile SE
C15	MOOG50000003875	1/2 - 1 Mile SE
16	MOOG50000005458	1/2 - 1 Mile NW
17	MOOG50000005235	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 4661124.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME: 8100 Ozark Road	CLIENT: Tetra Tech EMI
ADDRESS: 8100 Ozark Road Kansas City MO 64129	CONTACT: Christin Russell
LAT/LONG: 39.04291 / 94.494907	INQUIRY #: 4661124.2s
	DATE: June 29, 2016 1:39 pm

Map ID Direction Distance Elevation	Database	EDR ID Number
1 **ESE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000697308**

Org. Identifier:	USGS-MO		
Formal name:	USGS Missouri Water Science Center		
Monloc Identifier:	USGS-390230094292001		
Monloc name:	T49N R32W 30DB		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	10300101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	39.0416721
Longitude:	-94.4891199	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	minutes
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	855
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from digital elevation model (DEM)		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Pleasanton Group		
Aquifer type:	Unconfined single aquifer		
Construction date:	Not Reported	Welldepth:	36
Welldepth units:	ft	Wellholedepth:	36
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

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2 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000697329**

Org. Identifier:	USGS-MO		
Formal name:	USGS Missouri Water Science Center		
Monloc Identifier:	USGS-390300094302001		
Monloc name:	T49N R33W 24DBC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	10300101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	39.0500052
Longitude:	-94.505787	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	minutes
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	740
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Cherokee Group		

Aquifer type:	Confined multiple aquifer		
Construction date:	Not Reported	Welldepth:	615
Welldepth units:	ft	Wellholedepth:	615
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

3
NW
1/2 - 1 Mile
Lower

MO WELLS **MOLOG1000021835**

Id:	008541	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Stname:	MISSOURI
Stabbrev:	MO	County:	JACKSON
Utm x:	369684		
Utm y:	4323534		
Latitude:	39.05304		
Longitude:	-94.506		
Qtr3:	NW	Qtr2:	NW
Qtr1:	SE		
Section:	24		
Tnsp:	49		
Tnspdir:	Not Reported		
Rng:	33		
Rngdir:	W		
Plssx:	369584		
Plssy:	4323636		
Location p:	143		
Elev:	764		
Idnum:	8541		
Swl:	0		
Quadrangle:	KANSAS CITY	Site id:	MOLOG1000021835

Header Information:

Id:	008541	Well type:	Industrial High Capacity Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	JACKSON
Fips:	095	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NW
Qtr2:	NW	Qtr1:	SE
Section:	24	Tnsp:	49
Tnspdir:	N	Rng:	33
Rngdir:	W		
Latitude:	39.05304		
Longitude:	-94.506		
Utm x:	369684		
Utm y:	4323534		
Quadmap na:	KANSAS CITY	Ohio code:	39094A5
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	1	Owner:	Cooper Jarrett Company Well #1
Leasenam:	Not Reported	Driller:	Bradford & Son
Drldate:	1944/05/15	Permit:	Not Reported
Logdate:	0000/00/00	Logger:	McManamy

Elev:	764		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	Not Reported		
Depthbed:	10		
Sampsav:	1	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	652	Formation :	PLEASANTON GROUP
Formation1:	MISSISSIPPIAN SYSTEM		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	Not Reported
Alagncy1:	Not Reported	Add databa:	Not Reported
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	PLANT @ LEEDS; NE COR 40TH & EWING - DRY & ABANDONED		
C total:	0	C plugind:	Not Reported
C remarks:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	0
Fmtop:	263		
Fmbot:	263		
Formation :	COAL		
Primlith:	COAL		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	0
Fmtop:	0		
Fmbot:	10		
Formation :	SOIL		
Primlith:	CLAY		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	4800
Fmtop:	10		
Fmbot:	650		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	13500
Fmtop:	10		
Fmbot:	183		
Formation :	MISSOURIAN SERIES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	18800
Fmtop:	10		
Fmbot:	183		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	GRAVEL
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	19500
Fmtop:	183		
Fmbot:	650		
Formation :	DESMOINESIAN SERIES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	19600
Fmtop:	183		
Fmbot:	295		
Formation :	MARMATON GROUP		
Primlith:	SHALE		
Seclith:	LIMESTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	22000
Fmtop:	250		
Fmbot:	260		
Formation :	MYRICK STATION LS. MEMBER		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	23300
Fmtop:	285		
Fmbot:	295		
Formation :	EXCELLO SHALE		
Primlith:	SHALE		
Seclith:	Not Reported	Minlith:	COAL
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	23400
Fmtop:	295		
Fmbot:	650		
Formation :	CHEROKEE GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	LIMESTONE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	24100
Fmtop:	318		
Fmbot:	342		
Formation :	"SQUIRREL" SANDSTONE MEMBER		
Primlith:	SAND		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	OIL		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 008541 Stratordr: 24600
Fmtop: 366
Fmbot: 371
Formation : ARDMORE LIMESTONE MEMBER
Primlith: LIMESTONE
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 008541 Stratordr: 26500
Fmtop: 519
Fmbot: 520
Formation : SEVILLE LIMESTONE
Primlith: LIMESTONE
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 008541 Stratordr: 28400
Fmtop: 650
Fmbot: 652
Formation : MISSISSIPPIAN SYSTEM
Primlith: LIMESTONE
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 008541 Stratordr: 32300
Fmtop: 280
Fmbot: 285
Formation : BLACKJACK CREEK LIMESTONE
Primlith: LIMESTONE
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	99900
Fmtop:	652		
Fmbot:	652		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

4
SE **MO WELLS** **MOLOG1000021712**
1/2 - 1 Mile
Higher

Id:	004836	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Stname:	MISSOURI
Stabbrev:	MO	County:	JACKSON
Utm x:	371682		
Utm y:	4321328		
Latitude:	39.03347		
Longitude:	-94.4825		
Qtr3:	C	Qtr2:	SE
Qtr1:	SE		
Section:	30		
Tnsp:	49		
Tnspdir:	Not Reported		
Rng:	32		
Rngdir:	W		
Plssx:	371082		
Plssy:	4321925		
Location p:	281		
Elev:	920		
Idnum:	4836		
Swl:	0		
Quadrangle:	INDEPENDENCE	Site id:	MOLOG1000021712

Header Information:

Id:	004836	Well type:	Gas Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	JACKSON
Fips:	095	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	C
Qtr2:	SE	Qtr1:	SE
Section:	30	Tnsp:	49
Tnspdir:	N	Rng:	32
Rngdir:	W		
Latitude:	39.03347		
Longitude:	-94.4825		

Utm x:	371682		
Utm y:	4321328		
Quadmap na:	INDEPENDENCE	Ohio code:	39094A4
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	D
Typelog2:	Not Reported	Typelog3:	S
Ownerind:	1	Owner:	Bradford & Francis
Leasenam:	Pitcher Well #1	Driller:	Bradford, Jay & R.
Drldate:	1938/06/01	Permit:	Not Reported
Logdate:	1938/09/12	Logger:	Hundhausen
Elev:	920		
Elevbase:	S	Prodyld:	*
Gpmcfs:	Not Reported		
Depthbed:	14		
Sampsav:	1	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	*260,352 CU FT GAS		
Totdepth:	405	Formation :	KANSAS CITY GROUP
Formation1:	CHEROKEE GROUP		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	API OIL AND GAS FILE
Alagncy1:	Not Reported	Add databa:	095-00177
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	#1 PITCHER - 0-370’ Driller’s Log Attached		
C total:	0	C plugind:	N
C remarks:	Not Reported		

Construction Information:

Id:	004836	Well type:	Gas Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	193806
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	0		
Cas1diam:	0		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	G
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	Not Reported		

Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	9999	Gasprod:	99990026
Tubepres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	Not Reported
Formation1:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	100
Fmtop:	0		
Fmbot:	14		
Formation :	RESIDUUM & TOP SOIL		
Primlith:	CLAY		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	4800
Fmtop:	14		
Fmbot:	405		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	15000
Fmtop:	14		
Fmbot:	97		
Formation :	KANSAS CITY GROUP		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	SHALE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	18800
Fmtop:	97		
Fmbot:	208		
Formation :	PLEASANTON GROUP		
Primlith:	SAND		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	19600
Fmtop:	208		
Fmbot:	349		
Formation :	MARMATON GROUP		
Primlith:	SHALE		
Seclith:	LIMESTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	22300
Fmtop:	297		
Fmbot:	299		
Formation :	LEXINGTON COAL BED		
Primlith:	COAL		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	23400
Fmtop:	349		
Fmbot:	405		
Formation :	CHEROKEE GROUP		
Primlith:	SAND		
Seclith:	SHALE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	24100
Fmtop:	362		
Fmbot:	405		
Formation :	"SQUIRREL" SANDSTONE MEMBER		
Primlith:	SAND		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	99900
Fmtop:	405		
Fmbot:	405		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Map ID Direction Distance	Database	EDR ID Number

1
ENE
1/8 - 1/4 Mile

OIL_GAS **MOOG50000003887**

County:	Jackson	Api number:	095-00189
Company na:	KANSAS CITY HOUSE OF CORRECTI	Lease name:	FEE
Well name:	Not Reported	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	38
Longitude :	94	Longitud00:	29
Longitud01:	30	Latitude00:	39.04404
Longitud02:	-94.49175	Proposed t:	0
Actual tot:	510		
Well comme:	ABANDONED GAS WELL - BEFORE 1917		
Site id:	MOOG50000003887		

2
East
1/4 - 1/2 Mile

OIL_GAS **MOOG50000005228**

County:	Jackson	Api number:	095-01534
Company na:	GENTRY	Lease name:	FEE
Well name:	1	Well type:	Gas(Private Use)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	35
Longitude :	94	Longitud00:	29
Longitud01:	19	Latitude00:	39.04314
Longitud02:	-94.48883	Proposed t:	0
Actual tot:	540		
Well comme:	ABANDONED GAS WELL		
Site id:	MOOG50000005228		

3
ENE
1/4 - 1/2 Mile

OIL_GAS **MOOG50000005234**

County:	Jackson	Api number:	095-01540
Company na:	WURZER, CHARLES	Lease name:	ROCK SPRINGS GARDEN
Well name:	2	Well type:	Gas(Private Use)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	41
Longitude :	94	Longitud00:	29
Longitud01:	11	Latitude00:	39.04487
Longitud02:	-94.48652	Proposed t:	0
Actual tot:	200		
Well comme:	Not Reported		
Site id:	MOOG50000005234		

A5
SE **OIL_GAS** **MOOG50000005233**
1/4 - 1/2 Mile

County:	Jackson	Api number:	095-01539
Company na:	WILSON	Lease name:	FEE
Well name:	2	Well type:	Gas(Private Use)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	16
Longitude :	94	Longitud00:	29
Longitud01:	20	Latitude00:	39.03778
Longitud02:	-94.48912	Proposed t:	0
Actual tot:	293		
Well comme:	Not Reported		
Site id:	MOOG50000005233		

A4
SE **OIL_GAS** **MOOG50000005232**
1/4 - 1/2 Mile

County:	Jackson	Api number:	095-01538
Company na:	WILSON	Lease name:	FEE
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported

Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	16
Longitude :	94	Longitud00:	29
Longitud01:	20	Latitude00:	39.03778
Longitud02:	-94.48912	Proposed t:	0
Actual tot:	550		
Well comme:	DRY, SHOWS GAS		
Site id:	MOOG50000005232		

6
ESE **OIL_GAS** **MOOG50000005454**
1/2 - 1 Mile

County:	Jackson	Api number:	095-01760
Company na:	FOOTE, TED	Lease name:	FEE
Well name:	1	Well type:	Gas(Private Use)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	22
Longitude :	94	Longitud00:	29
Longitud01:	11	Latitude00:	39.03952
Longitud02:	-94.48657	Proposed t:	0
Actual tot:	287		
Well comme:	Not Reported		
Site id:	MOOG50000005454		

B8
ESE **OIL_GAS** **MOOG50000005230**
1/2 - 1 Mile

County:	Jackson	Api number:	095-01536
Company na:	GROGGER	Lease name:	FEE
Well name:	2	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	21
Longitude :	94	Longitud00:	28
Longitud01:	56	Latitude00:	39.03944
Longitud02:	-94.48237	Proposed t:	0
Actual tot:	211		
Well comme:	DRY		
Site id:	MOOG50000005230		

Map ID Direction Distance	Database	EDR ID Number

B7
ESE
1/2 - 1 Mile

OIL_GAS **MOOG50000005229**

County:	Jackson	Api number:	095-01535
Company na:	GROGGER	Lease name:	FEE
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	21
Longitude :	94	Longitud00:	28
Longitud01:	56	Latitude00:	39.03944
Longitud02:	-94.48237	Proposed t:	0
Actual tot:	450		
Well comme:	DRY, SHOWS OIL & GAS		
Site id:	MOOG50000005229		

9
SSE
1/2 - 1 Mile

OIL_GAS **MOOG50000004001**

County:	Jackson	Api number:	095-00306
Company na:	JUDD	Lease name:	LANE, F. E.
Well name:	2	Well type:	Gas(Private Use)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	18-JUL-30	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	2	Latitude s:	19
Longitude :	94	Longitud00:	29
Longitud01:	23	Latitude00:	39.033523
Longitud02:	-94.487923	Proposed t:	0
Actual tot:	560		
Well comme:	Not Reported		
Site id:	MOOG50000004001		

10
SSE
1/2 - 1 Mile

OIL_GAS **MOOG50000005231**

County:	Jackson	Api number:	095-01537
Company na:	MISSOURI-KANSAS PIPELINE	Lease name:	WINTERS
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	1	Latitude s:	56
Longitude :	94	Longitud00:	29
Longitud01:	28	Latitude00:	39.03228
Longitud02:	-94.49126	Proposed t:	0
Actual tot:	440		
Well comme:	DRY		
Site id:	MOOG50000005231		

11
SSE **OIL_GAS** **MOOG50000005227**
1/2 - 1 Mile

County:	Jackson	Api number:	095-01533
Company na:	BRADFORD	Lease name:	SMITH, FLOYD R.
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	1	Latitude s:	55
Longitude :	94	Longitud00:	29
Longitud01:	20	Latitude00:	39.03218
Longitud02:	-94.48916	Proposed t:	0
Actual tot:	430		
Well comme:	Not Reported		
Site id:	MOOG50000005227		

12
SSE **OIL_GAS** **MOOG50000005226**
1/2 - 1 Mile

County:	Jackson	Api number:	095-01532
Company na:	BRADFORD	Lease name:	LANE, LEATHA
Well name:	4	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported

Survey l00:	Not Reported	Latitude d:	39
Latitude m:	1	Latitude s:	55
Longitude :	94	Longitud00:	29
Longitud01:	13	Latitude00:	39.03215
Longitud02:	-94.48698	Proposed t:	0
Actual tot:	415		
Well comme:	SHOWS OIL & GAS		
Site id:	MOOG50000005226		

13
NNW **OIL_GAS** **MOOG50000005315**
1/2 - 1 Mile

County:	Jackson	Api number:	095-01621
Company na:	REICH, A.	Lease name:	FEE
Well name:	1	Well type:	Gas(Private Use)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	33	Range dire:	West
Section:	24	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	3	Latitude s:	16
Longitude :	94	Longitud00:	30
Longitud01:	0	Latitude00:	39.05471
Longitud02:	-94.50001	Proposed t:	0
Actual tot:	350		
Well comme:	PRODUCED GAS		
Site id:	MOOG50000005315		

C14
SE **OIL_GAS** **MOOG50000005225**
1/2 - 1 Mile

County:	Jackson	Api number:	095-01531
Company na:	BRADFORD	Lease name:	LANE, LAURA
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	975 FSL
Survey l00:	825 FEL	Latitude d:	39
Latitude m:	2	Latitude s:	1
Longitude :	94	Longitud00:	29
Longitud01:	1	Latitude00:	39.03388
Longitud02:	-94.48374	Proposed t:	0
Actual tot:	390		
Well comme:	Not Reported		
Site id:	MOOG50000005225		

Map ID Direction Distance	Database	EDR ID Number

C15
SE
1/2 - 1 Mile

OIL_GAS **MOOG50000003875**

County:	Jackson	Api number:	095-00177
Company na:	BRADFORD & HENDRICKS	Lease name:	PITCHER
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	30	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	1	Latitude s:	58
Longitude :	94	Longitud00:	29
Longitud01:	0	Latitude00:	39.03295
Longitud02:	-94.48337	Proposed t:	0
Actual tot:	405		
Well comme:	Not Reported		
Site id:	MOOG50000003875		

16
NW
1/2 - 1 Mile

OIL_GAS **MOOG50000005458**

County:	Jackson	Api number:	095-01764
Company na:	COOPER	Lease name:	FEE
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Kansas City	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	33	Range dire:	West
Section:	24	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	3	Latitude s:	10
Longitude :	94	Longitud00:	30
Longitud01:	23	Latitude00:	39.05286
Longitud02:	-94.5065	Proposed t:	0
Actual tot:	652		
Well comme:	D & A, NE COR 40TH & EWING		
Site id:	MOOG50000005458		

17
SSE
1/2 - 1 Mile

OIL_GAS **MOOG50000005235**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Jackson	Api number:	095-01541
Company na:	BRADFORD	Lease name:	SMITH No. 1
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Independence	Land grant:	Not Reported
Township:	49	Township d:	North
Range :	32	Range dire:	West
Section:	31	Survey loc:	Not Reported
Survey l00:	Not Reported	Latitude d:	39
Latitude m:	1	Latitude s:	49
Longitude :	94	Longitud00:	29
Longitud01:	13	Latitude00:	39.03051
Longitud02:	-94.48711	Proposed t:	0
Actual tot:	450		
Well comme:	Not Reported		
Site id:	MOOG50000005235		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
64129	02/05/08	????
64129	03/28/08	1.3
64129	03/10/08	5.6
64129	03/13/09	6.5

Federal EPA Radon Zone for JACKSON County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 64129

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.467 pCi/L	67%	33%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Missouri Public Drinking Water Wells
Source: Department of Natural Resources
Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Natural Resources
Telephone: 573-368-2143

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

APPENDIX G

HISTORICAL USE DOCUMENTATION

APPENDIX G-1

FIRE INSURANCE MAPS

8100 Ozark Road

8100 Ozark Road

Kansas City, MO 64129

Inquiry Number: 4661124.3

June 29, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/29/16

Site Name:	Client Name:
8100 Ozark Road	Tetra Tech EMI
8100 Ozark Road	415 Oak Street
Kansas City, MO 64129	Kansas City, MO 64106
EDR Inquiry # 4661124.3	Contact: Christin Russell

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EMI 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 # D4A8-4FED-9AB1

PO # NA

Project KCMO Municipal Farms

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: D4A8-4FED-9AB1

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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APPENDIX G-2

AERIAL PHOTOS

8100 Ozark Road

8100 Ozark Road

Kansas City, MO 64129

Inquiry Number: 4661124.9

June 30, 2016

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/30/16

Site Name:

8100 Ozark Road
8100 Ozark Road
Kansas City, MO 64129
EDR Inquiry # 4661124.9

Client Name:

Tetra Tech EMI
415 Oak Street
Kansas City, MO 64106
Contact: Christin Russell

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1997	1"=500'	Acquisition Date: March, 06 1997	USGS/DOQQ
1996	1"=750'	Flight Date: March, 07 1996	USGS
1990	1"=500'	Flight Date: March, 19 1990	USGS
1986	1"=500'	Flight Date: June, 13 1986	USGS
1983	1"=500'	Flight Date: May, 16 1983	USGS
1979	1"=500'	Flight Date: August, 07 1979	USDA
1976	1"=500'	Flight Date: March, 27 1976	USDA
1969	1"=500'	Flight Date: September, 30 1969	USDA
1963	1"=500'	Flight Date: March, 17 1963	USGS
1957	1"=500'	Flight Date: June, 10 1957	USDA
1952	1"=500'	Flight Date: October, 20 1952	USDA
1940	1"=500'	Flight Date: October, 07 1940	USDA
1936	1"=500'	Flight Date: August, 18 1936	USDA

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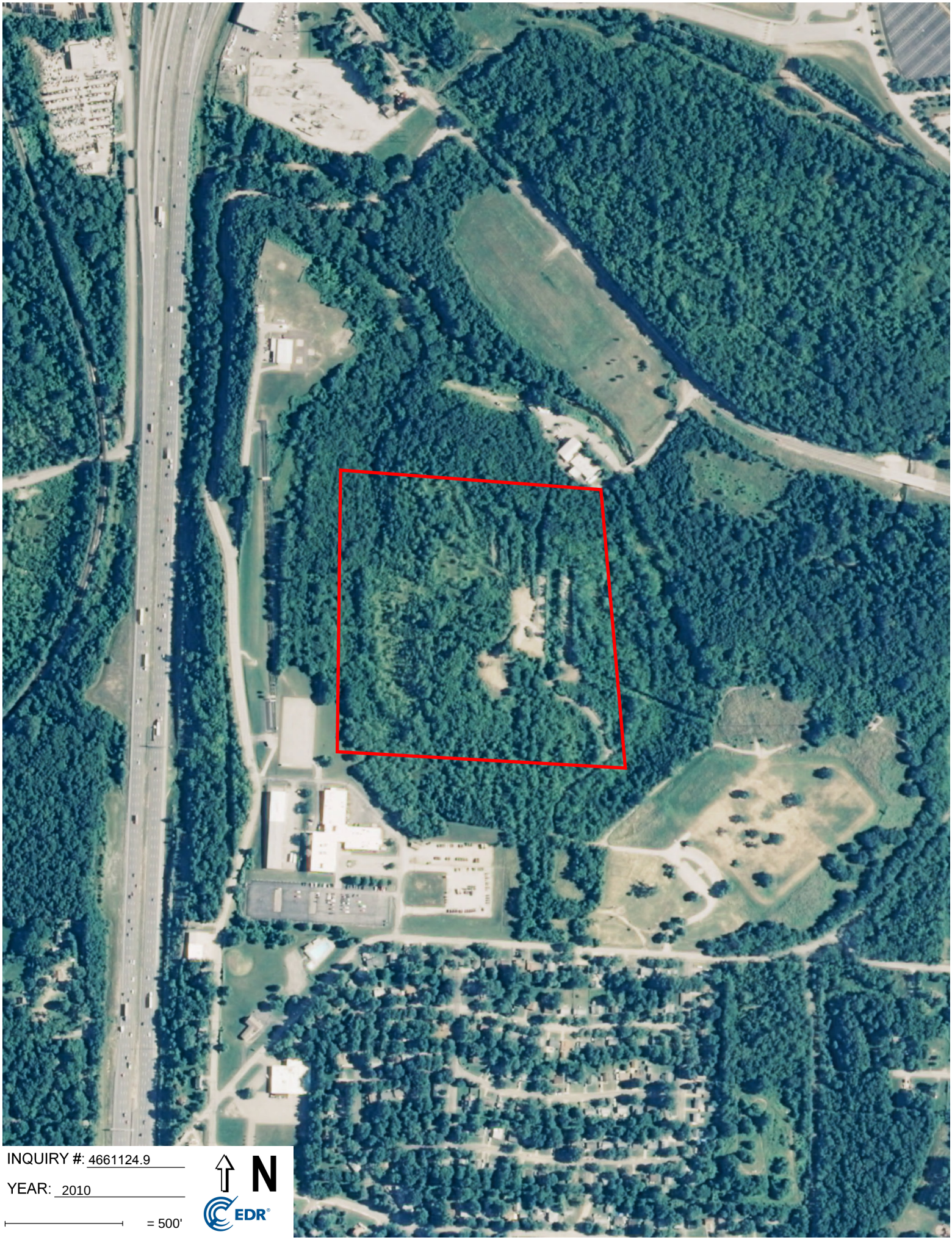
INQUIRY #: 4661124.9
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 4661124.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4661124.9
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4661124.9
YEAR: 2007
= 500'
N
EDR

INQUIRY #: 4661124.9

YEAR: 2006

= 500'

N

EDR

INQUIRY #: 4661124.9

YEAR: 2005

= 500'

N

EDR

INQUIRY #: 4661124.9

YEAR: 1997

= 500'

N

EDR

INQUIRY #: 4661124.9

YEAR: 1996

= 750'

N

EDR


INQUIRY #: 4661124.9
YEAR: 1990
= 500'
N
EDR


INQUIRY #: 4661124.9
YEAR: 1986
= 500'
N
EDR


INQUIRY #: 4661124.9
YEAR: 1983
= 500'
N
EDR


INQUIRY #: 4661124.9
YEAR: 1979
= 500'
N
EDR

INQUIRY #: 4661124.9

YEAR: 1976

= 500'

N

EDR

INQUIRY #: 4661124.9

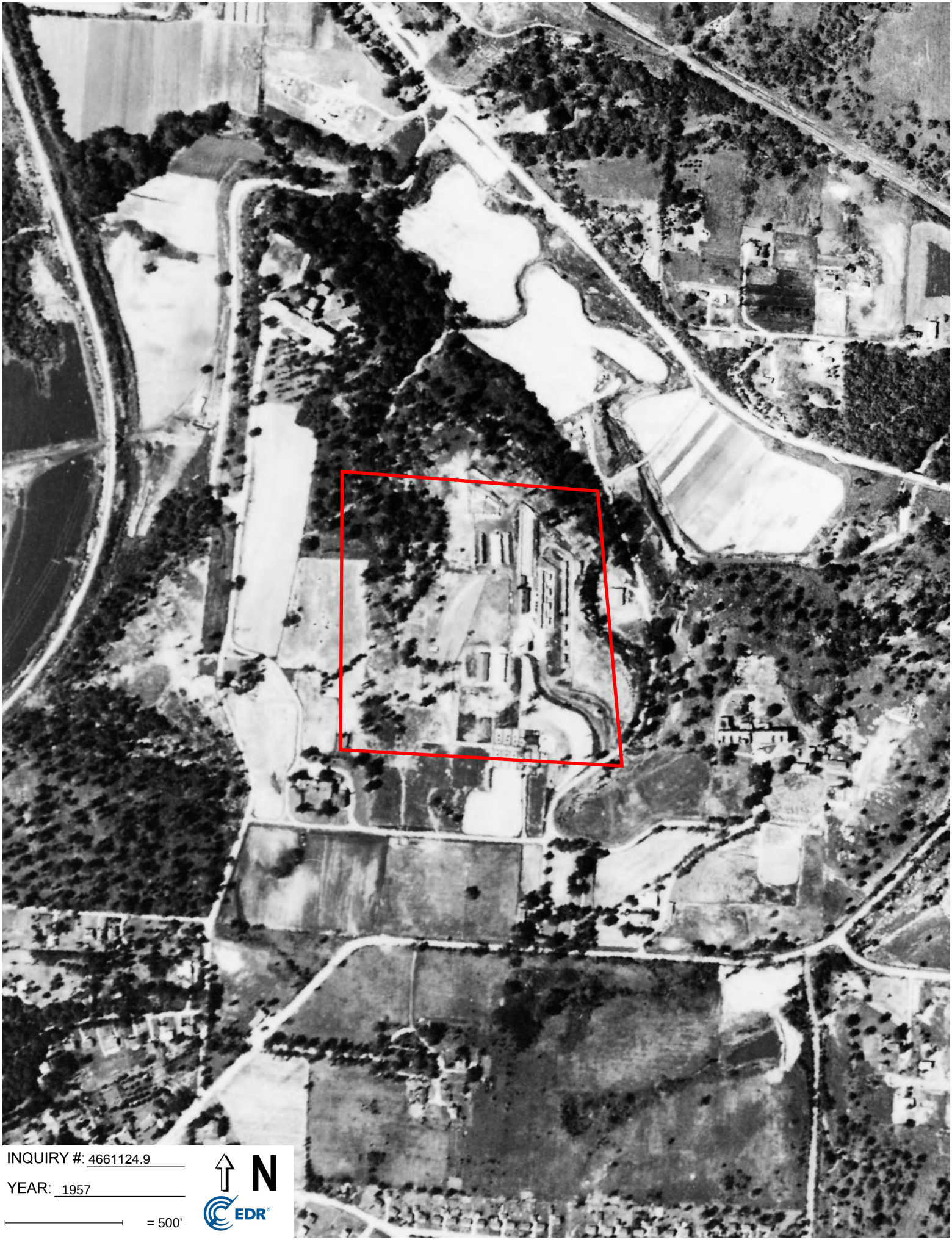
YEAR: 1969

= 500'

N

EDR


INQUIRY #: 4661124.9
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 4661124.9
YEAR: 1957
= 500'
N
EDR

INQUIRY #: 4661124.9

YEAR: 1952

= 500'

N

EDR

INQUIRY #: 4661124.9

YEAR: 1940

= 500'

N

EDR

INQUIRY #: 4661124.9

YEAR: 1936

= 500'

N

EDR

APPENDIX G-3

TOPO MAP

8100 Ozark Road

8100 Ozark Road

Kansas City, MO 64129

Inquiry Number: 4661124.4

June 29, 2016

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/29/16

Site Name:	Client Name:
8100 Ozark Road	Tetra Tech EMI
8100 Ozark Road	415 Oak Street
Kansas City, MO 64129	Kansas City, MO 64106
EDR Inquiry # 4661124.4	Contact: Christin Russell

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EMI were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	39.04291 39° 2' 34" North
Project:	KCMO Municipal Farms	**Longitude:**	-94.494907 -94° 29' 42" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	370628.54
		UTM Y Meters:	4322601.60
		Elevation:	897.43' above sea level

Maps Provided:

2015	1934, 1935
1996	1894
1995	
1975	
1970	
1964	
1957	
1940	

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2015 Source Sheets

Kansas City
2015
7.5-minute, 24000

Independence
2015
7.5-minute, 24000

1996 Source Sheets

Independence
1996
7.5-minute, 24000
Aerial Photo Revised 1996

Kansas City
1996
7.5-minute, 24000
Aerial Photo Revised 1996

1995 Source Sheets

Independence
1995
7.5-minute, 24000
Aerial Photo Revised 1990
Edited 1995

Kansas City
1995
7.5-minute, 24000
Aerial Photo Revised 1991
Edited 1995

1975 Source Sheets

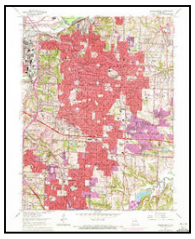
Independence
1975
7.5-minute, 24000
Photo Revised 1975
Aerial Photo Revised 1975

Kansas City
1975
7.5-minute, 24000
Photo Revised 1975
Aerial Photo Revised 1975

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1970 Source Sheets

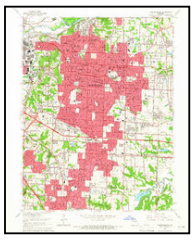


Independence
1970
7.5-minute, 24000
Photo Revised 1970
Aerial Photo Revised 1970

Kansas City
1970
7.5-minute, 24000
Photo Revised 1970
Aerial Photo Revised 1970

1964 Source Sheets

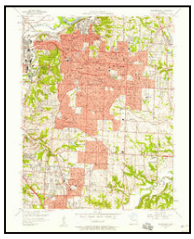
Kansas City
1964
7.5-minute, 24000
Aerial Photo Revised 1955
Edited 1963



Independence
1964
7.5-minute, 24000
Aerial Photo Revised 1955
Edited 1964

1957 Source Sheets

Kansas City
1957
7.5-minute, 24000
Aerial Photo Revised 1951
Edited 1957



Independence
1957
7.5-minute, 24000
Aerial Photo Revised 1955
Edited 1957

1940 Source Sheets

Kansas City
1940
7.5-minute, 31680

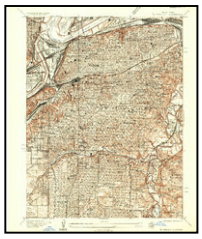
Independence
1940
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

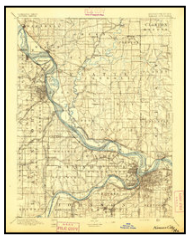
1934, 1935 Source Sheets

Independence
1934
7.5-minute, 24000

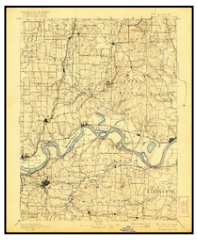


Kansas City
1935
7.5-minute, 24000

1894 Source Sheets



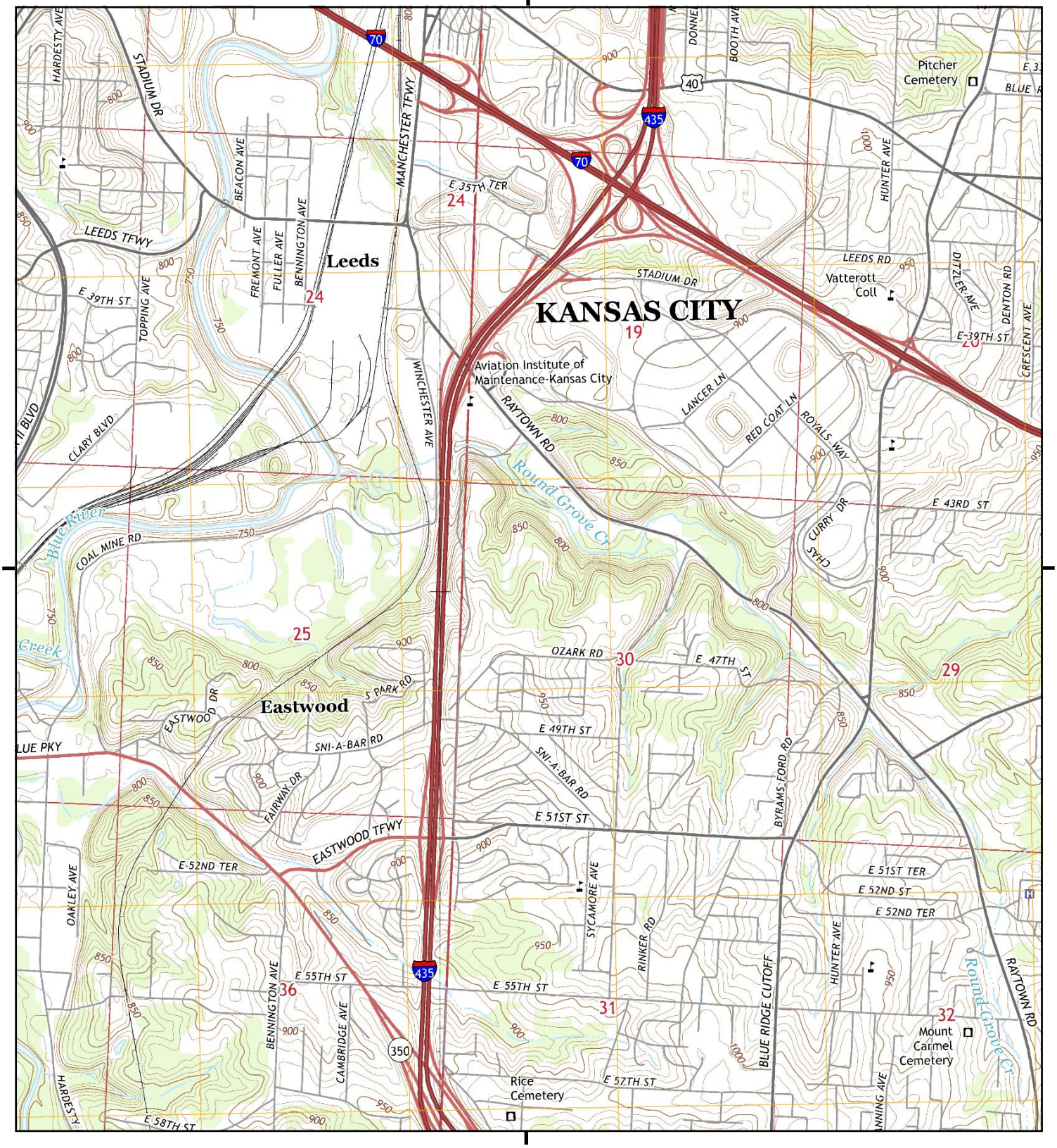
Kansas City
1894
30-minute, 125000



Independence
1894
30-minute, 125000

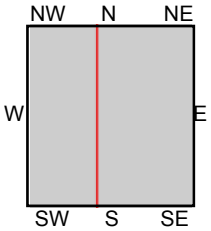
Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



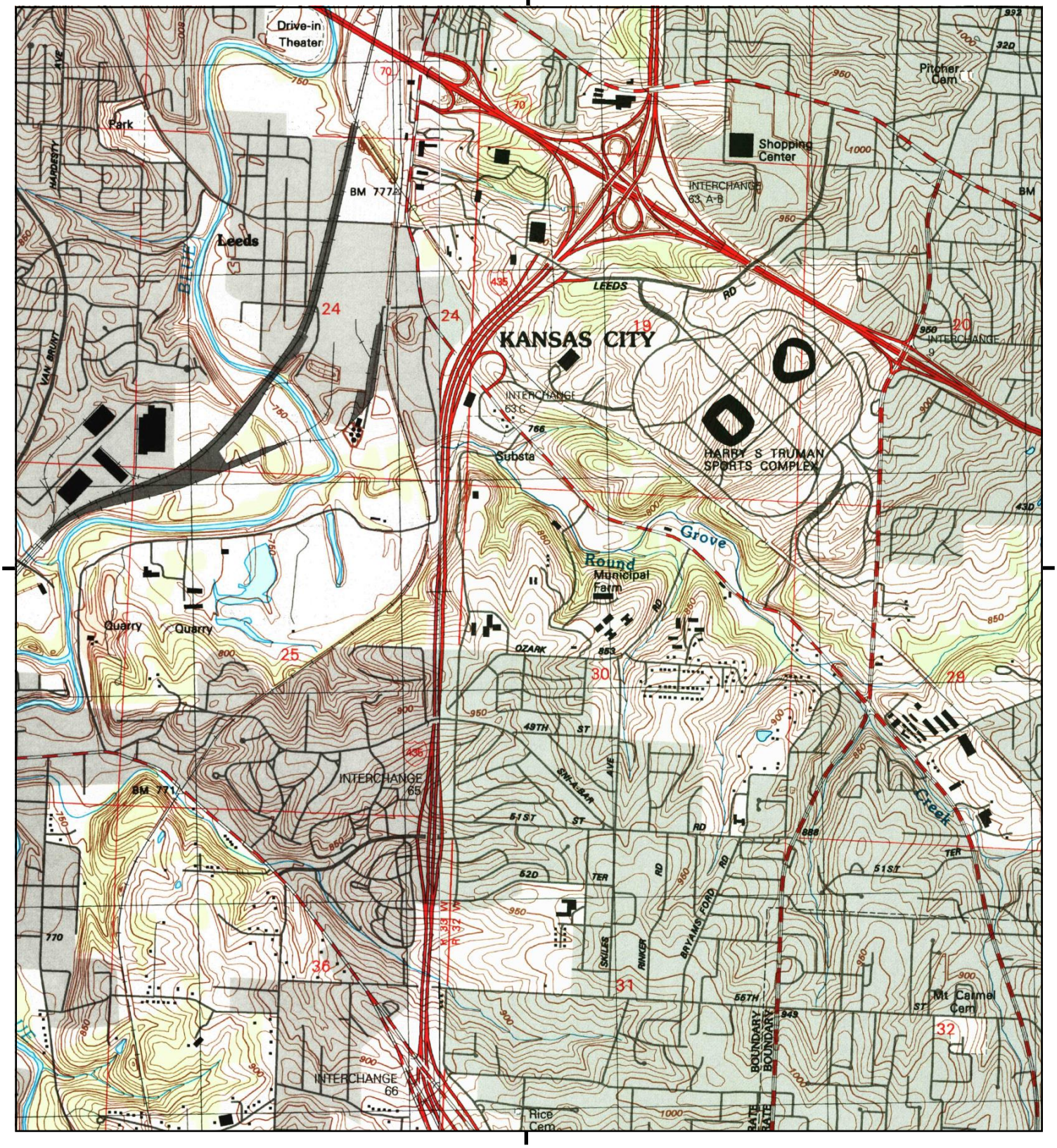
TP, Independence, 2015, 7.5-minute
W, Kansas City, 2015, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

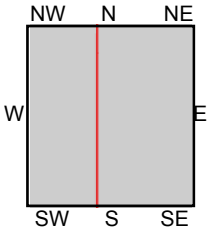
Historical Topo Map

1996



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



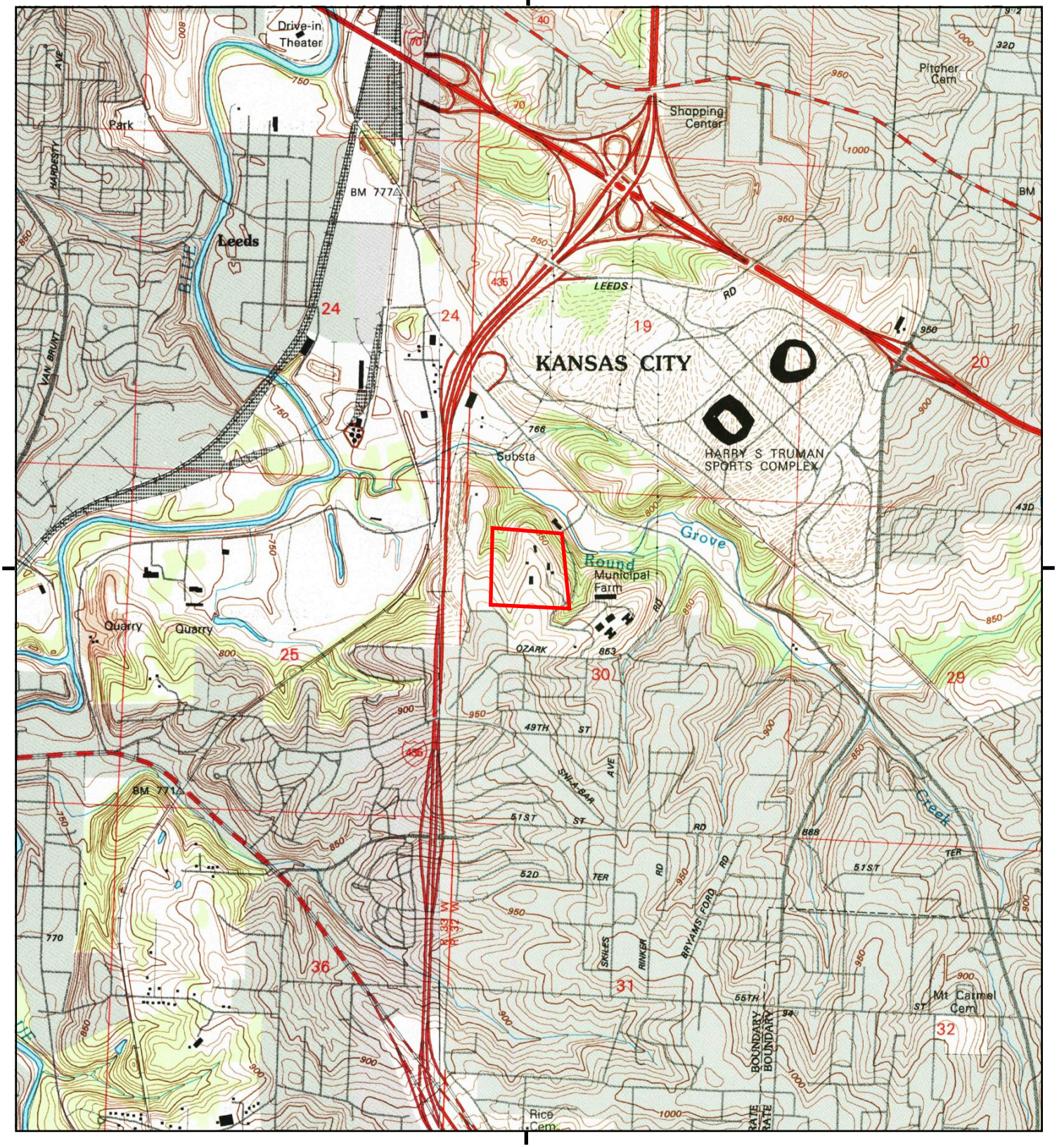
TP, Independence, 1996, 7.5-minute
W, Kansas City, 1996, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

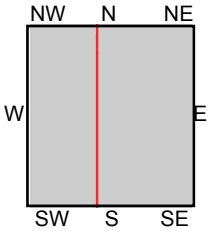
Historical Topo Map

1995



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



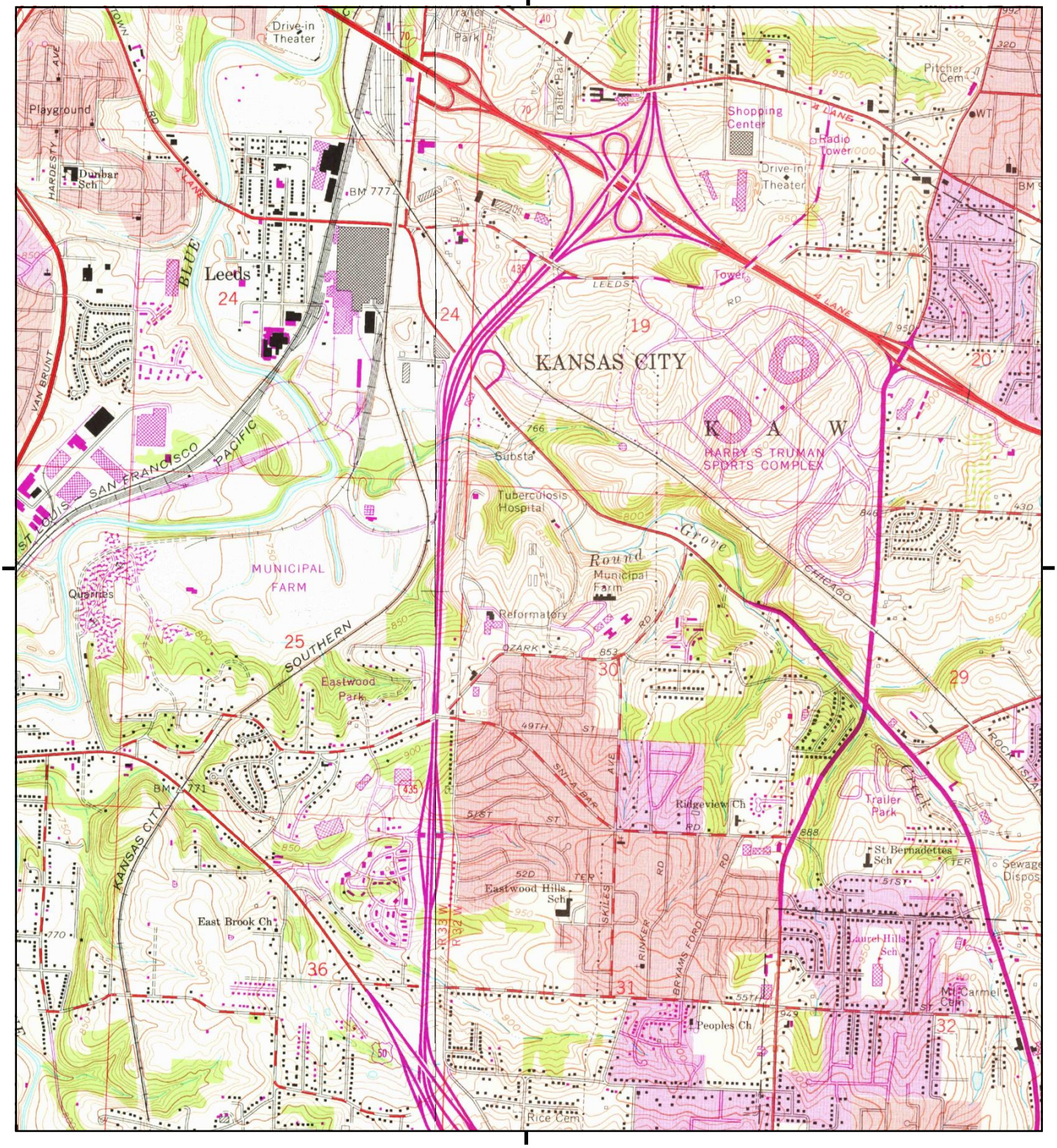
TP, Independence, 1995, 7.5-minute
W, Kansas City, 1995, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

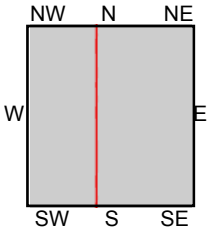
Historical Topo Map

1975



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



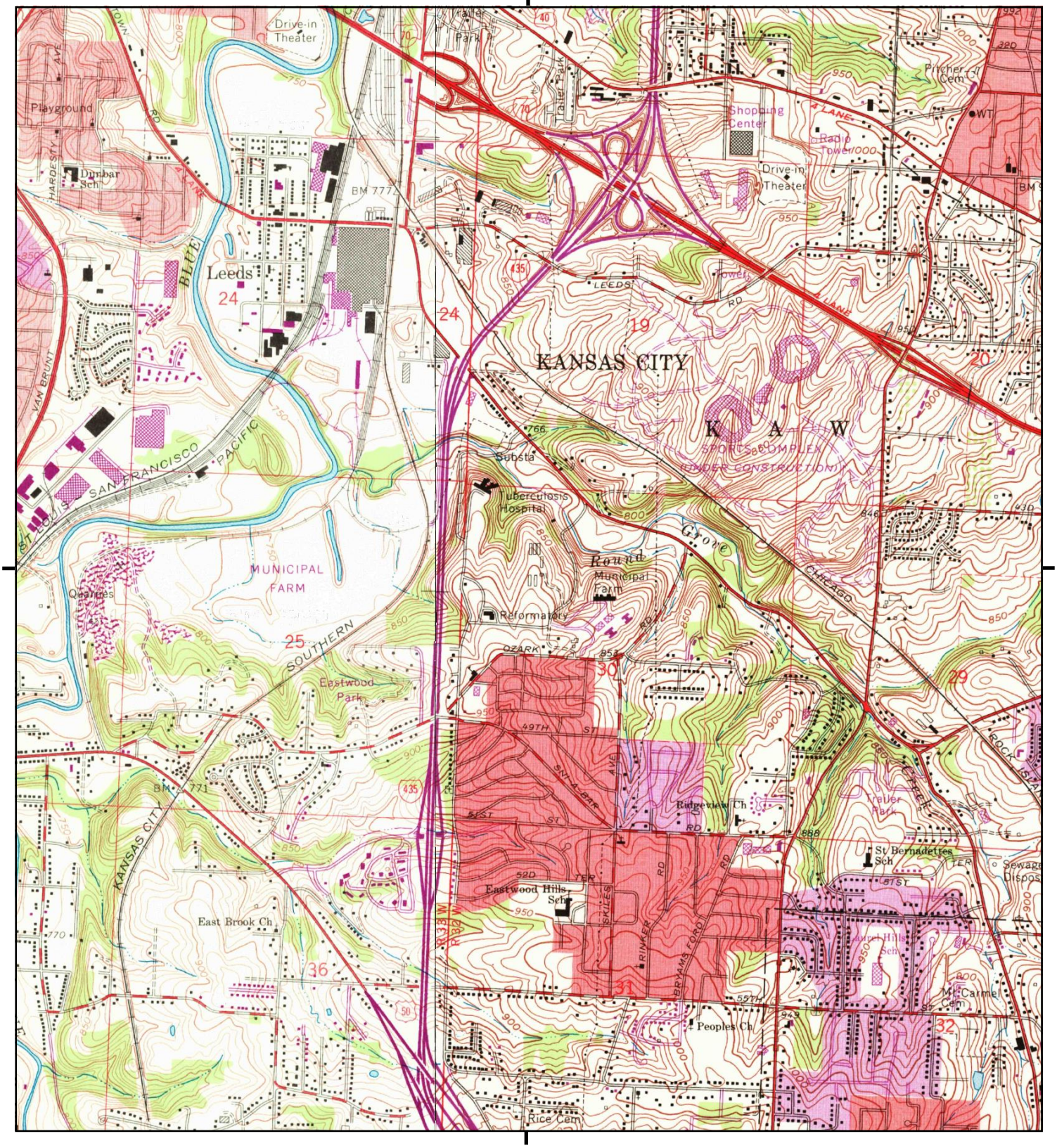
TP, Independence, 1975, 7.5-minute
W, Kansas City, 1975, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

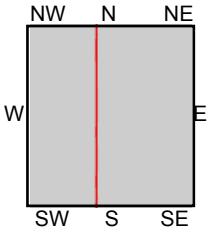
Historical Topo Map

1970



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



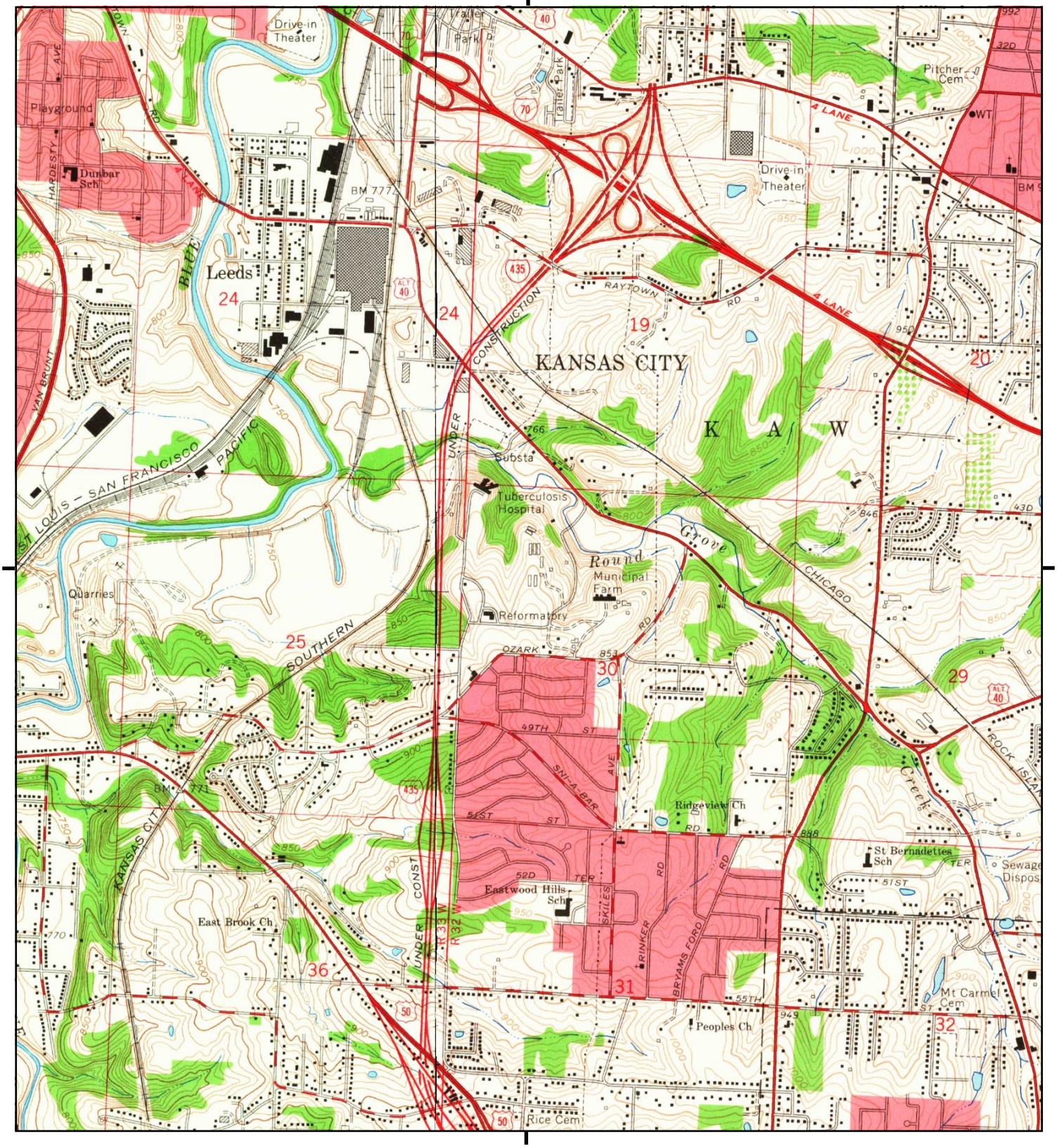
TP, Independence, 1970, 7.5-minute
W, Kansas City, 1970, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

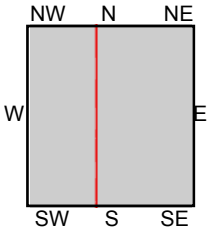
Historical Topo Map

1964



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



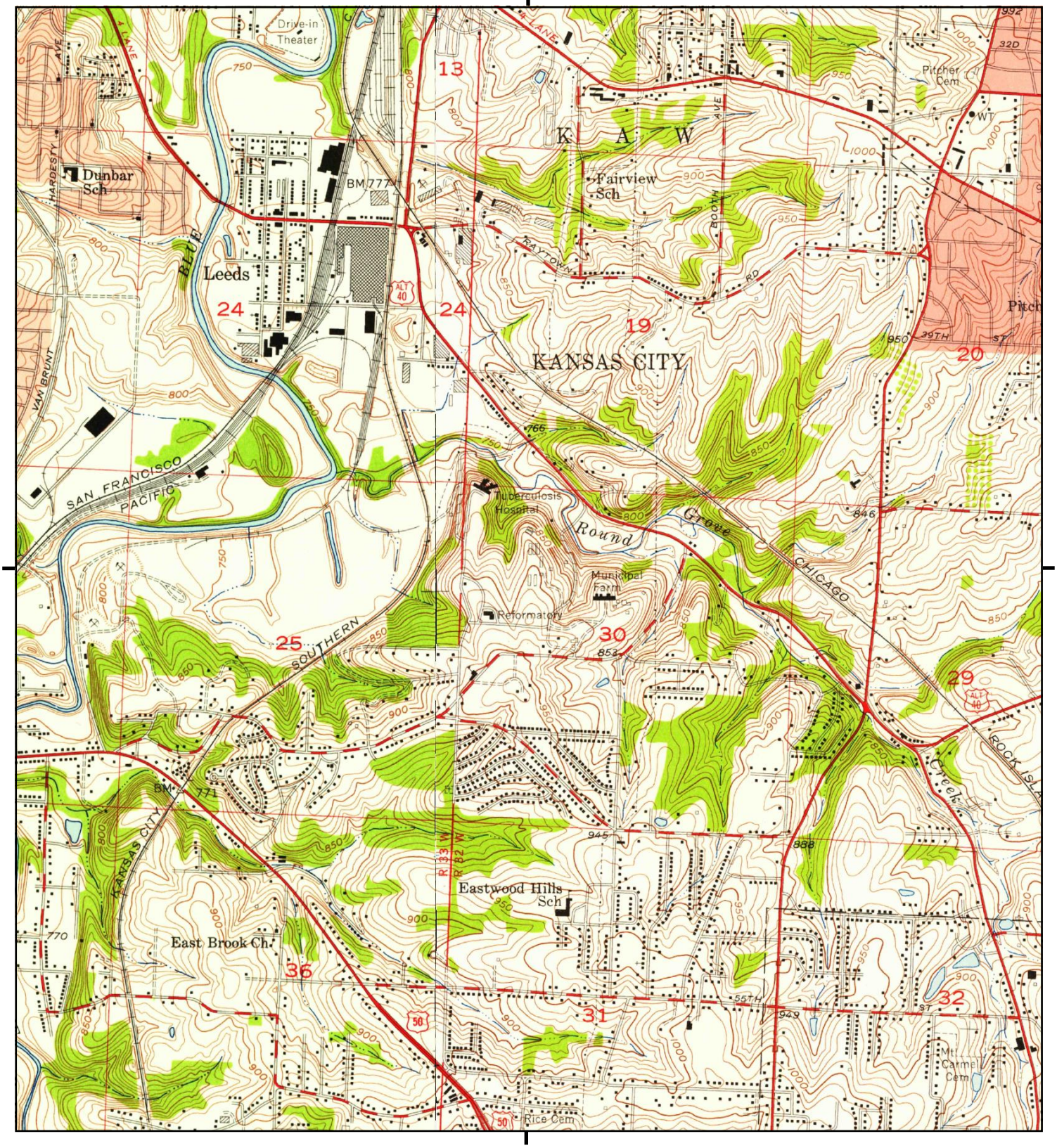
TP, Independence, 1964, 7.5-minute
W, Kansas City, 1964, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

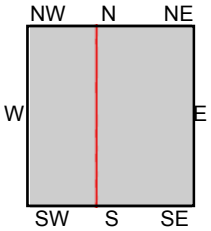
Historical Topo Map

1957



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



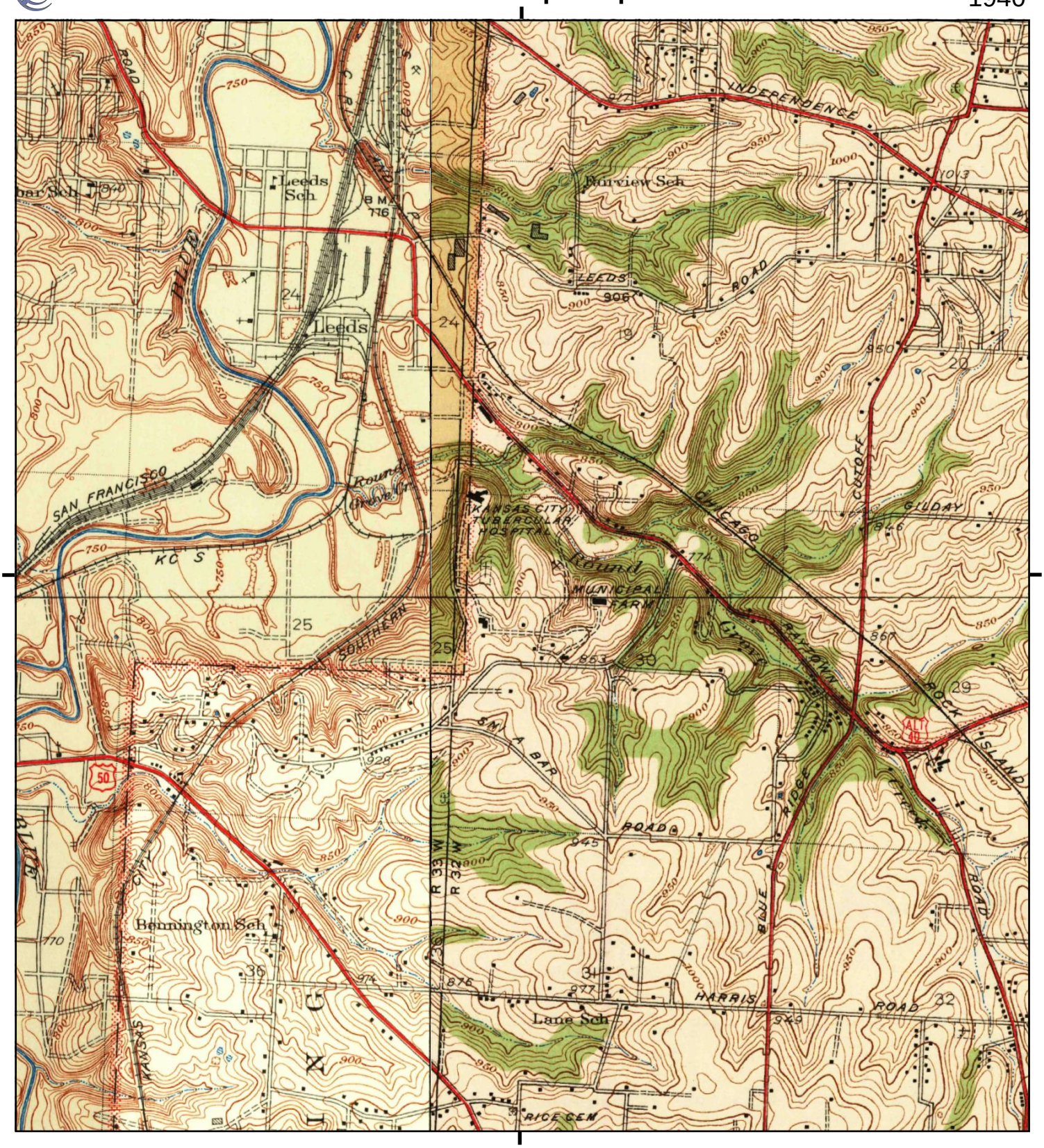
TP, Independence, 1957, 7.5-minute
W, Kansas City, 1957, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

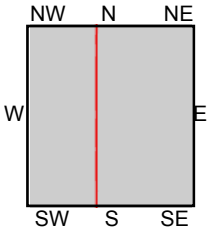
Historical Topo Map

1940



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



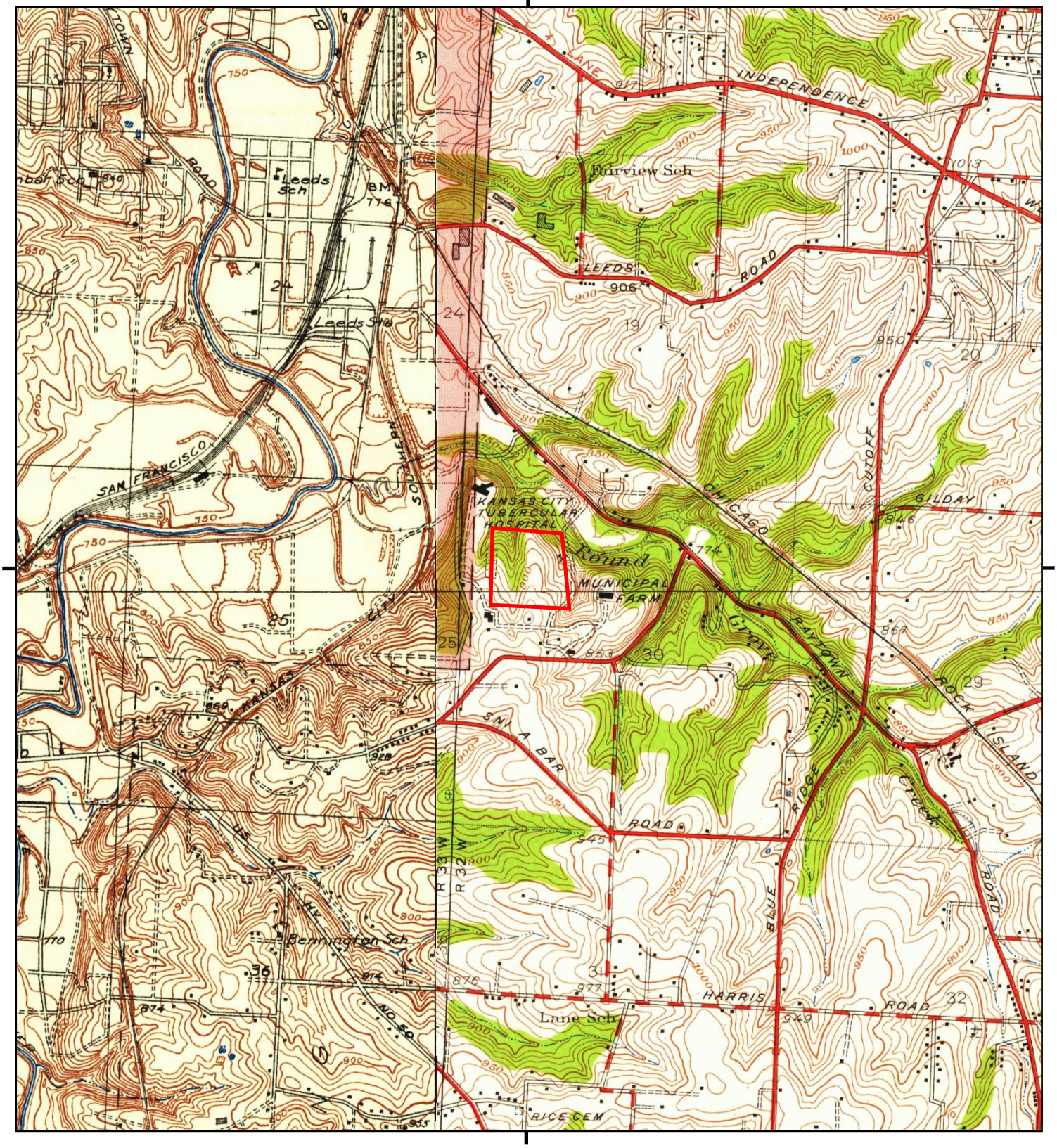
TP, Independence, 1940, 7.5-minute
W, Kansas City, 1940, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

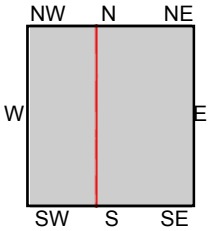
Historical Topo Map

1934, 1935



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



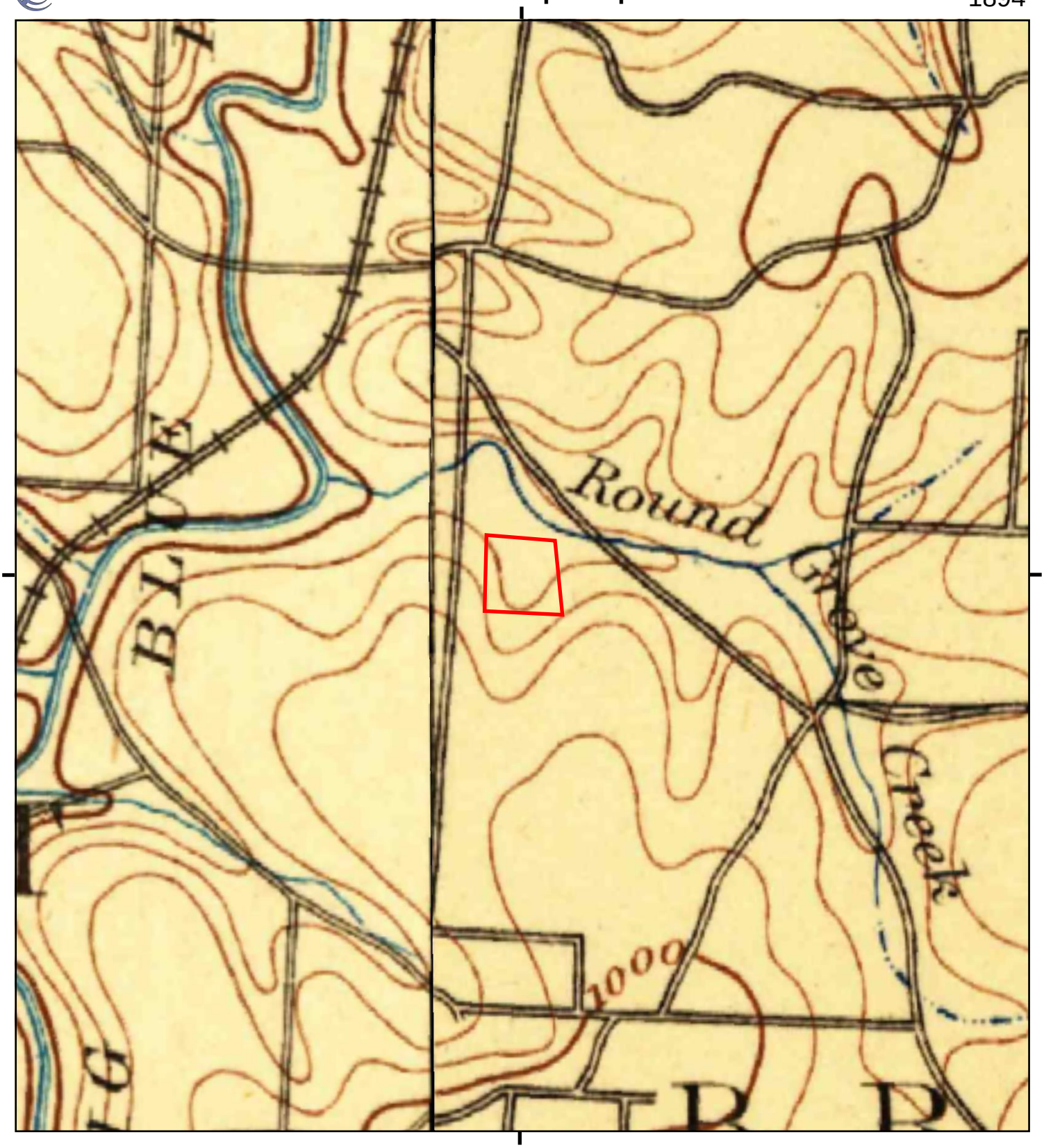
TP, Independence, 1934, 7.5-minute
W, Kansas City, 1935, 7.5-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

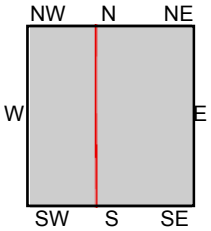
Historical Topo Map

1894



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Independence, 1894, 30-minute
NW, Kansas City, 1894, 30-minute

SITE NAME: 8100 Ozark Road
ADDRESS: 8100 Ozark Road
Kansas City, MO 64129
CLIENT: Tetra Tech EMI

N

APPENDIX G-4

DIRECTORIES

8100 Ozark Road
8100 Ozark Road
Kansas City, MO 64129

Inquiry Number: 4661124.5
June 29, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1909 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Cole Information Services	X	X	X	-
2000	R. L. Polk Co. Publishers	-	X	X	X
1995	Cole Publications	X	X	X	-
1990	R. L. Polk Co.	X	X	X	X
1985	R. L. Polk and Co.	X	X	X	X
1980	R. L. Polk Co., Publishers	X	X	X	X
1975	R. L. Polk Co.	X	X	X	X
1970	R. L. Polk Co.	-	X	X	X
1966	R. L. Polk and Co.	X	X	X	X
1961	R. L. Polk Co.	X	X	X	X
1956	R. L. Polk Co.	-	-	-	-
1951	R. L. Polk Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1945	Gate City Directory Co.	-	-	-	-
1940	Gate City Directory Co.	-	-	-	-
1935	Gate City Directory Co.	-	-	-	-
1930	Gate City Directory Co., Publishers	-	-	-	-
1925	Gate City Directory Co.	-	-	-	-
1920	Gate City Directory Co.	-	-	-	-
1909	Gould Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

8100 Ozark Road
Kansas City, MO 64129

FINDINGS DETAIL

Target Property research detail.

OZARK RD

8100 OZARK RD

Year	Uses	Source	
2008	CONNECTIONS TO SUCCESS	Cole Information Services	
	KANSAS CITY CITY	Cole Information Services	
2006	Municipal Correctional Institute	Cole Information Services	
1995	Cty Muncpl Corrctn	Cole Publications	
	Cty Muni Corr Inst	Cole Publications	
1990	City Of K C Municipal Correctional Inst	R. L. Polk Co.	Image pg. A6
1985	Municipal Correctional Institution	R. L. Polk and Co.	Image pg. A12
1980	Municipal Correctional Institution	R. L. Polk Co., Publishers	Image pg. A17
1975	City Penal Institution	R. L. Polk Co.	Image pg. A22
	City Womens Reformatory	R. L. Polk Co.	Image pg. A22
	Municipal Correctional Institution	R. L. Polk Co.	Image pg. A22
1966	CITY PENAL INSTITUTION	R. L. Polk and Co.	Image pg. A32
	CITY WOMENS REFORMATORY	R. L. Polk and Co.	Image pg. A32
	MUNICIPAL FARM	R. L. Polk and Co.	Image pg. A32
	PROVYN CYRIEL	R. L. Polk and Co.	Image pg. A32
1961	Municipal Farm city	R. L. Polk Co.	Image pg. A37
	Penal Institution	R. L. Polk Co.	Image pg. A37
	Provyn Cyriel	R. L. Polk Co.	Image pg. A37
	Womens Reformatory city	R. L. Polk Co.	Image pg. A37

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

47TH ST TER E

7600 47TH ST TER E

Year	Uses	Source	
1985	Meier Ruby M Mrs	R. L. Polk and Co.	Image pg. A13
1980	Meier Ruby M Mrs	R. L. Polk Co., Publishers	Image pg. A18
1975	Meier Ruby Mrs	R. L. Polk Co.	Image pg. A23
1966	MEIERS CLARENCE	R. L. Polk and Co.	Image pg. A33

7601 47TH ST TER E

Year	Uses	Source	
1985	Me Kinney Allis Mrs	R. L. Polk and Co.	Image pg. A13
1980	Mc Kinney Allis Mrs	R. L. Polk Co., Publishers	Image pg. A18
1975	Mc Kinney Alis Mrs	R. L. Polk Co.	Image pg. A23
1966	ANWANDER MARVIN	R. L. Polk and Co.	Image pg. A33

7605 47TH ST TER E

Year	Uses	Source	
1985	Warden Uoyd E	R. L. Polk and Co.	Image pg. A13
1980	Warden Lloyd E	R. L. Polk Co., Publishers	Image pg. A18
1975	Warden Lloyd E	R. L. Polk Co.	Image pg. A23
1966	WARDEN LLOYD E	R. L. Polk and Co.	Image pg. A33

7608 47TH ST TER E

Year	Uses	Source	
1985	Lamas Frank	R. L. Polk and Co.	Image pg. A13
1980	Biles Robt K	R. L. Polk Co., Publishers	Image pg. A18
1975	Jacobs Richd C	R. L. Polk Co.	Image pg. A23
1966	JACOBS RICHD C	R. L. Polk and Co.	Image pg. A33

7611 47TH ST TER E

Year	Uses	Source	
1985	Harter Greg	R. L. Polk and Co.	Image pg. A13
1980	Harter Greg	R. L. Polk Co., Publishers	Image pg. A18
1975	Granger Donald R	R. L. Polk Co.	Image pg. A23
1966	GREENLEE BEN C	R. L. Polk and Co.	Image pg. A33

FINDINGS

7614 47TH ST TER E

Year	Uses	Source	
1985	Me Mahon Wm C	R. L. Polk and Co.	Image pg. A13
1980	Mc Mahon Wm C	R. L. Polk Co., Publishers	Image pg. A18
1975	Mc Mahon Wm C	R. L. Polk Co.	Image pg. A23
1966	THOMPSON RALPH D	R. L. Polk and Co.	Image pg. A33

7617 47TH ST TER E

Year	Uses	Source	
1985	Connell Craig	R. L. Polk and Co.	Image pg. A13
1980	Baker Rick	R. L. Polk Co., Publishers	Image pg. A18
1975	Slaton Gordon	R. L. Polk Co.	Image pg. A23
1966	SLATON GORDON	R. L. Polk and Co.	Image pg. A33

7618 47TH ST TER E

Year	Uses	Source	
1985	Nance Michael D	R. L. Polk and Co.	Image pg. A13
1980	Nance Michl D	R. L. Polk Co., Publishers	Image pg. A18
1975	Mance Michl D	R. L. Polk Co.	Image pg. A23
1966	BEST ERNEST W	R. L. Polk and Co.	Image pg. A33

7623 47TH ST TER E

Year	Uses	Source	
1985	Smith Louis E	R. L. Polk and Co.	Image pg. A13
1980	Smith Louis E	R. L. Polk Co., Publishers	Image pg. A18
1975	Smith Louis E	R. L. Polk Co.	Image pg. A23
1966	SMITH LOUIS E a	R. L. Polk and Co.	Image pg. A33

7624 47TH ST TER E

Year	Uses	Source	
1985	Taylor Robert A	R. L. Polk and Co.	Image pg. A13
1980	Van Ness Wanda J Mrs	R. L. Polk Co., Publishers	Image pg. A18
1975	Caldweli James	R. L. Polk Co.	Image pg. A23
1966	WALLACE DON A	R. L. Polk and Co.	Image pg. A33

7700 47TH ST TER E

Year	Uses	Source	
1985	Guthrle Theadore L	R. L. Polk and Co.	Image pg. A13
1980	Guthrie Theo L	R. L. Polk Co., Publishers	Image pg. A18
1975	Guthrie Theo L	R. L. Polk Co.	Image pg. A23
1966	SMITH PAUL B	R. L. Polk and Co.	Image pg. A33

FINDINGS

7701 47TH ST TER E

Year	Uses	Source	
1985	Jones Richd L	R. L. Polk and Co.	Image pg. A13
1980	Jones Richd L	R. L. Polk Co., Publishers	Image pg. A18
1975	Dela Cruz Salvadore	R. L. Polk Co.	Image pg. A23
1966	RICE DAVID W	R. L. Polk and Co.	Image pg. A33

7705 47TH ST TER E

Year	Uses	Source	
1985	May Mildred	R. L. Polk and Co.	Image pg. A13
1980	May Mildred	R. L. Polk Co., Publishers	Image pg. A18
1975	Vacant	R. L. Polk Co.	Image pg. A23
1966	VACANT	R. L. Polk and Co.	Image pg. A33

7706 47TH ST TER E

Year	Uses	Source	
1985	Leeper Jess	R. L. Polk and Co.	Image pg. A13
1980	Leeper Jess	R. L. Polk Co., Publishers	Image pg. A18
1975	Volkmer Gary L	R. L. Polk Co.	Image pg. A23
1966	SEVER GENE A	R. L. Polk and Co.	Image pg. A33

7709 47TH ST TER E

Year	Uses	Source	
1985	Abbott Austin N	R. L. Polk and Co.	Image pg. A13
1980	Abbott Neal	R. L. Polk Co., Publishers	Image pg. A18
1975	Schoom Elaine	R. L. Polk Co.	Image pg. A23
1966	JENKINS RONALD D	R. L. Polk and Co.	Image pg. A33

7710 47TH ST TER E

Year	Uses	Source	
1985	Vacant	R. L. Polk and Co.	Image pg. A13
1980	Nercier Peter S	R. L. Polk Co., Publishers	Image pg. A18
1975	Morris Jerry L	R. L. Polk Co.	Image pg. A23
1966	HOLDERFIELD LARRY G	R. L. Polk and Co.	Image pg. A33

7714 47TH ST TER E

Year	Uses	Source	
1985	Crook Wilber L	R. L. Polk and Co.	Image pg. A13
1980	Crook Wilber L	R. L. Polk Co., Publishers	Image pg. A18
1975	Vacant	R. L. Polk Co.	Image pg. A23
1966	WARRINGTON FRANK	R. L. Polk and Co.	Image pg. A33

FINDINGS

7715 47TH ST TER E

Year	Uses	Source	
1985	Haar Paul D	R. L. Polk and Co.	Image pg. A13
1980	No Return	R. L. Polk Co., Publishers	Image pg. A18
1975	White Michi E	R. L. Polk Co.	Image pg. A23
1966	NELSON LOUIS H	R. L. Polk and Co.	Image pg. A33

7718 47TH ST TER E

Year	Uses	Source	
1985	Sheram Douglas L	R. L. Polk and Co.	Image pg. A13
1975	War man Robt D	R. L. Polk Co.	Image pg. A23
1966	SMITH PAUL	R. L. Polk and Co.	Image pg. A33

7719 47TH ST TER E

Year	Uses	Source	
1985	Turner Richd D	R. L. Polk and Co.	Image pg. A13
1980	Turner Richd D	R. L. Polk Co., Publishers	Image pg. A18
1975	Sears Kenneth R	R. L. Polk Co.	Image pg. A23
1966	CUDNEY BOB	R. L. Polk and Co.	Image pg. A33

7800 47TH ST TER E

Year	Uses	Source	
1985	Rasmussen Wayne L	R. L. Polk and Co.	Image pg. A13
1980	Rasmussen Wayne L	R. L. Polk Co., Publishers	Image pg. A18
1975	Hess Roy E	R. L. Polk Co.	Image pg. A23
1966	HESS ROY E	R. L. Polk and Co.	Image pg. A33

7801 47TH ST TER E

Year	Uses	Source	
1985	Dunn Joseph P	R. L. Polk and Co.	Image pg. A13
1980	Vacant	R. L. Polk Co., Publishers	Image pg. A18
1975	Spengler James	R. L. Polk Co.	Image pg. A23
1966	NO RETURN	R. L. Polk and Co.	Image pg. A33

7804 47TH ST TER E

Year	Uses	Source	
1985	Mc Cauley Wm M	R. L. Polk and Co.	Image pg. A13
1980	Wright Gordon S	R. L. Polk Co., Publishers	Image pg. A18
1975	Vospette Andre L	R. L. Polk Co.	Image pg. A23
1966	VOSPETTE ANDRE L	R. L. Polk and Co.	Image pg. A33

FINDINGS

7805 47TH ST TER E

Year	Uses	Source	
1985	Smith Clarence L	R. L. Polk and Co.	Image pg. A13
1980	Smith Clarence	R. L. Polk Co., Publishers	Image pg. A18
1975	Smith Clarence	R. L. Polk Co.	Image pg. A23
1966	SMITH CLARENCE	R. L. Polk and Co.	Image pg. A33

7809 47TH ST TER E

Year	Uses	Source	
1985	Sofia Jack D	R. L. Polk and Co.	Image pg. A13
1980	Sofia Jack D	R. L. Polk Co., Publishers	Image pg. A18
1975	Sofia Jack D	R. L. Polk Co.	Image pg. A23
1966	BIRD ALBERT M	R. L. Polk and Co.	Image pg. A33

7812 47TH ST TER E

Year	Uses	Source	
1985	Alig Edw C	R. L. Polk and Co.	Image pg. A13
1980	Casey Danny	R. L. Polk Co., Publishers	Image pg. A18
1975	Elrod John C	R. L. Polk Co.	Image pg. A23
1966	PRITCHARD EARL S	R. L. Polk and Co.	Image pg. A33

7815 47TH ST TER E

Year	Uses	Source	
1985	Vacant	R. L. Polk and Co.	Image pg. A13
1980	Reed Debbie	R. L. Polk Co., Publishers	Image pg. A18
1975	ODell John L	R. L. Polk Co.	Image pg. A23
1966	COTTEN CLIFFORD C	R. L. Polk and Co.	Image pg. A33

7816 47TH ST TER E

Year	Uses	Source	
1985	Sullivan Robt L	R. L. Polk and Co.	Image pg. A13
1980	Sullivan Robt L	R. L. Polk Co., Publishers	Image pg. A18
1975	Sullivan Robt L	R. L. Polk Co.	Image pg. A23
1966	SULLIVAN ROBT L	R. L. Polk and Co.	Image pg. A33

7819 47TH ST TER E

Year	Uses	Source	
1985	Henik Robby	R. L. Polk and Co.	Image pg. A13
1980	Henik Robby	R. L. Polk Co., Publishers	Image pg. A18
1975	Nicholas Marion B	R. L. Polk Co.	Image pg. A23
1966	NICHOLAS GERALDINE L MRS	R. L. Polk and Co.	Image pg. A33

FINDINGS

47TH STREET TER E

7600 47TH STREET TER E

Year	Uses	Source	
1961	Meiers Clarence	R. L. Polk Co.	Image pg. A38

7601 47TH STREET TER E

Year	Uses	Source	
1961	Sousley Norman C	R. L. Polk Co.	Image pg. A38

7605 47TH STREET TER E

Year	Uses	Source	
1961	Warden Lloyd E	R. L. Polk Co.	Image pg. A38

7608 47TH STREET TER E

Year	Uses	Source	
1961	Jacobs Richd C	R. L. Polk Co.	Image pg. A38

7611 47TH STREET TER E

Year	Uses	Source	
1961	Greenlee Ben C O	R. L. Polk Co.	Image pg. A38

7614 47TH STREET TER E

Year	Uses	Source	
1961	Ellis Golden M	R. L. Polk Co.	Image pg. A38

7617 47TH STREET TER E

Year	Uses	Source	
1961	Mc Dowell Sam	R. L. Polk Co.	Image pg. A38

7618 47TH STREET TER E

Year	Uses	Source	
1961	Lewis James C	R. L. Polk Co.	Image pg. A38

7623 47TH STREET TER E

Year	Uses	Source	
1961	Smith Louis E	R. L. Polk Co.	Image pg. A38

7624 47TH STREET TER E

Year	Uses	Source	
1961	Thomas John L	R. L. Polk Co.	Image pg. A38

FINDINGS

7700 47TH STREET TER E

Year	Uses	Source	
1961	Hunter Cleo D	R. L. Polk Co.	Image pg. A38

7701 47TH STREET TER E

Year	Uses	Source	
1961	Rice David W	R. L. Polk Co.	Image pg. A38

7705 47TH STREET TER E

Year	Uses	Source	
1961	Terry Allen W	R. L. Polk Co.	Image pg. A38

7706 47TH STREET TER E

Year	Uses	Source	
1961	Beaer Gene A	R. L. Polk Co.	Image pg. A38

7709 47TH STREET TER E

Year	Uses	Source	
1961	Fenkins Ronald D	R. L. Polk Co.	Image pg. A38

7710 47TH STREET TER E

Year	Uses	Source	
1961	Stickle John W r	R. L. Polk Co.	Image pg. A38

7714 47TH STREET TER E

Year	Uses	Source	
1961	Crook Wilbur L	R. L. Polk Co.	Image pg. A38

7715 47TH STREET TER E

Year	Uses	Source	
1961	Nelson Louis H	R. L. Polk Co.	Image pg. A38

7718 47TH STREET TER E

Year	Uses	Source	
1961	Vaugn Claude I	R. L. Polk Co.	Image pg. A38

7719 47TH STREET TER E

Year	Uses	Source	
1961	Schootey Robt	R. L. Polk Co.	Image pg. A38

7800 47TH STREET TER E

Year	Uses	Source	
1961	Hess Roy E	R. L. Polk Co.	Image pg. A38

FINDINGS

7801 47TH STREET TER E

Year	Uses	Source	
1961	James Richd L	R. L. Polk Co.	Image pg. A38

7804 47TH STREET TER E

Year	Uses	Source	
1961	Vospatte Andre L	R. L. Polk Co.	Image pg. A38

7805 47TH STREET TER E

Year	Uses	Source	
1961	Marchesini Arth R	R. L. Polk Co.	Image pg. A38

7809 47TH STREET TER E

Year	Uses	Source	
1961	Bird Albert M	R. L. Polk Co.	Image pg. A38

7812 47TH STREET TER E

Year	Uses	Source	
1961	Leasure Harold E	R. L. Polk Co.	Image pg. A38

7815 47TH STREET TER E

Year	Uses	Source	
1961	Morgan Thelwood	R. L. Polk Co.	Image pg. A38

7816 47TH STREET TER E

Year	Uses	Source	
1961	Sullivan Robt L	R. L. Polk Co.	Image pg. A38

7819 47TH STREET TER E

Year	Uses	Source	
1961	Nichols Geraldine Mrs	R. L. Polk Co.	Image pg. A38

47TH TER E

7600 47TH TER E

Year	Uses	Source	
1995	Clarence Meier	Cole Publications	
1990	Meier Ruby M Mrs	R. L. Polk Co.	Image pg. A7

7601 47TH TER E

Year	Uses	Source	
1995	Robin Garrison	Cole Publications	

FINDINGS

Year	Uses	Source	
1995	Al McKinney	Cole Publications	
1990	Me Kinney Allis Mrs	R. L. Polk Co.	Image pg. A7

7605 47TH TER E

Year	Uses	Source	
1995	Lloyd E Warden	Cole Publications	
1990	Warden Helen I Mrs	R. L. Polk Co.	Image pg. A7

7608 47TH TER E

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Louis Pattie	R. L. Polk Co.	Image pg. A7

7611 47TH TER E

Year	Uses	Source	
1995	Greg Harter	Cole Publications	
1990	Harter Greg	R. L. Polk Co.	Image pg. A7

7614 47TH TER E

Year	Uses	Source	
1995	W C McMahon	Cole Publications	
1990	Me Mahon Wm C	R. L. Polk Co.	Image pg. A7

7617 47TH TER E

Year	Uses	Source	
1995	Norman Hess	Cole Publications	
1990	Connell Craig	R. L. Polk Co.	Image pg. A7

7618 47TH TER E

Year	Uses	Source	
1995	E A Nance	Cole Publications	
1990	Nance Eliz	R. L. Polk Co.	Image pg. A7

7623 47TH TER E

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Smith Louis E	R. L. Polk Co.	Image pg. A7

7624 47TH TER E

Year	Uses	Source
1995	Robert A Taylor	Cole Publications

FINDINGS

Year	Uses	Source	
1990	Taylor Robert	R. L. Polk Co.	Image pg. A7

7700 47TH TER E

Year	Uses	Source	
1995	C Palmer	Cole Publications	
1990	Guthrie Ralph	R. L. Polk Co.	Image pg. A7

7701 47TH TER E

Year	Uses	Source	
1995	Eric Vernon	Cole Publications	
1990	Vacant	R. L. Polk Co.	Image pg. A7

7705 47TH TER E

Year	Uses	Source	
1995	D Wolverton Jr	Cole Publications	
1990	Vacant	R. L. Polk Co.	Image pg. A7

7706 47TH TER E

Year	Uses	Source	
1995	Tomika Ross	Cole Publications	
1990	Dike Bill H	R. L. Polk Co.	Image pg. A7

7709 47TH TER E

Year	Uses	Source	
1995	T L Chase	Cole Publications	
1990	No Return	R. L. Polk Co.	Image pg. A7

7710 47TH TER E

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Trader Jerry D O	R. L. Polk Co.	Image pg. A8

7714 47TH TER E

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Crook Wilber L	R. L. Polk Co.	Image pg. A8

7715 47TH TER E

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Hale Paul	R. L. Polk Co.	Image pg. A8

FINDINGS

7718 47TH TER E

Year	Uses	Source	
1995	Melvin R Allen	Cole Publications	
1990	Allen Melvin R	R. L. Polk Co.	Image pg. A8

7719 47TH TER E

Year	Uses	Source	
1995	Richard D Turner	Cole Publications	
1990	Turner Richd D	R. L. Polk Co.	Image pg. A8

7800 47TH TER E

Year	Uses	Source	
1995	Scott Martin	Cole Publications	
1990	No Return	R. L. Polk Co.	Image pg. A8

7801 47TH TER E

Year	Uses	Source	
1995	Jennifer Wells	Cole Publications	
1990	Dunn Joseph P	R. L. Polk Co.	Image pg. A8

7804 47TH TER E

Year	Uses	Source	
1995	Jack Marriott	Cole Publications	
1990	Marriott Jackie	R. L. Polk Co.	Image pg. A8

7805 47TH TER E

Year	Uses	Source	
1995	Rae Sherwood	Cole Publications	
1990	Smith Clarence L	R. L. Polk Co.	Image pg. A8

7809 47TH TER E

Year	Uses	Source	
1995	Jack D Sofia	Cole Publications	
1990	Sofia Jack D	R. L. Polk Co.	Image pg. A8

7812 47TH TER E

Year	Uses	Source	
1995	James S Hartley	Cole Publications	
	Joseph A Steffen	Cole Publications	
1990	Alig Edw C	R. L. Polk Co.	Image pg. A8

FINDINGS

7815 47TH TER E

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Bawr Edw J	R. L. Polk Co.	Image pg. A8

7816 47TH TER E

Year	Uses	Source	
1995	Robert L Sullivan	Cole Publications	
1990	Sullivan Robt L	R. L. Polk Co.	Image pg. A8

7819 47TH TER E

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Devers Paul L	R. L. Polk Co.	Image pg. A8

48TH E

7704 48TH E

Year	Uses	Source
1995	W E Ramsey	Cole Publications

7705 48TH E

Year	Uses	Source
1995	Joyce L Wills	Cole Publications

7710 48TH E

Year	Uses	Source
1995	S Shores	Cole Publications

7711 48TH E

Year	Uses	Source
1995	Danny Morland	Cole Publications

7716 48TH E

Year	Uses	Source
1995	No Current Listing	Cole Publications

7717 48TH E

Year	Uses	Source
1995	No Current Listing	Cole Publications

FINDINGS

48TH ST E

7606 48TH ST E

Year	Uses	Source	
1990	Jenkins Tony D	R. L. Polk Co.	Image pg. A8
1985	Ferguson Kaye	R. L. Polk and Co.	Image pg. A14
1980	Jenkins Anthony	R. L. Polk Co., Publishers	Image pg. A19
1975	Ferguson Michi	R. L. Polk Co.	Image pg. A24
1966	CHILDERS HARRY H	R. L. Polk and Co.	Image pg. A34
1961	Childers Harry H	R. L. Polk Co.	Image pg. A39

7609 48TH ST E

Year	Uses	Source	
1990	Derks Earl A	R. L. Polk Co.	Image pg. A8
1985	Derks Earl A	R. L. Polk and Co.	Image pg. A14
1980	Derks Earl A	R. L. Polk Co., Publishers	Image pg. A19
1975	Jones Jesse C	R. L. Polk Co.	Image pg. A24
1966	LARKINS EARL W PNTR CONTR	R. L. Polk and Co.	Image pg. A34
1961	Larkins Earl W B potr	R. L. Polk Co.	Image pg. A39

7610 48TH ST E

Year	Uses	Source	
1990	Jackson Wm	R. L. Polk Co.	Image pg. A8
1985	Jackson Wm S	R. L. Polk and Co.	Image pg. A14
1980	Jackson Wm S	R. L. Polk Co., Publishers	Image pg. A19
1975	Jackson Wm S	R. L. Polk Co.	Image pg. A24
1966	VACANT	R. L. Polk and Co.	Image pg. A34
1961	Jackson Wm S	R. L. Polk Co.	Image pg. A39

7614 48TH ST E

Year	Uses	Source	
1990	Mackey Richd L	R. L. Polk Co.	Image pg. A8
1985	Mackey Richd	R. L. Polk and Co.	Image pg. A14
1980	Mackey Richd	R. L. Polk Co., Publishers	Image pg. A19
1975	Mackey Richd	R. L. Polk Co.	Image pg. A24
1966	BARBER JAMES K INT DEC	R. L. Polk and Co.	Image pg. A34
1961	Barber James K B	R. L. Polk Co.	Image pg. A39

7615 48TH ST E

Year	Uses	Source	
1985	Collins Dana W	R. L. Polk and Co.	Image pg. A14

FINDINGS

Year	Uses	Source	
1980	Hoover Priscilla D	R. L. Polk Co., Publishers	Image pg. A19
1975	Meek Ed	R. L. Polk Co.	Image pg. A24
1966	SUMMERS ANGELA M MRS	R. L. Polk and Co.	Image pg. A34
1961	Summers John L B	R. L. Polk Co.	Image pg. A39

7618 48TH ST E

Year	Uses	Source	
1990	Grissom Karen A Mrs	R. L. Polk Co.	Image pg. A8
1985	No Return	R. L. Polk and Co.	Image pg. A14
1980	Mitchel Debra	R. L. Polk Co., Publishers	Image pg. A19
1975	Klick Michl	R. L. Polk Co.	Image pg. A24
1966	FRISTOE WM L	R. L. Polk and Co.	Image pg. A34
1961	Piatchek Richd J B	R. L. Polk Co.	Image pg. A39

7704 48TH ST E

Year	Uses	Source	
1990	Ramsey Wilbert E	R. L. Polk Co.	Image pg. A8
1985	Ramsey Wilbert E	R. L. Polk and Co.	Image pg. A14
1980	No Return	R. L. Polk Co., Publishers	Image pg. A19
1975	Clines Bob	R. L. Polk Co.	Image pg. A24
1966	COCKERHAM REMMEL M	R. L. Polk and Co.	Image pg. A34
1961	Cockerham Remmel M B U N	R. L. Polk Co.	Image pg. A39

7705 48TH ST E

Year	Uses	Source	
1990	Wills Joyce L	R. L. Polk Co.	Image pg. A8
1985	Wills Joyce	R. L. Polk and Co.	Image pg. A14
1980	Wills Joyce	R. L. Polk Co., Publishers	Image pg. A19
1975	Turley Joyce	R. L. Polk Co.	Image pg. A24
1966	WYER GEO W	R. L. Polk and Co.	Image pg. A34
1961	Weisser Roy W	R. L. Polk Co.	Image pg. A39

7710 48TH ST E

Year	Uses	Source	
1990	Brown Linda L	R. L. Polk Co.	Image pg. A8
1985	Duckworth Charles E	R. L. Polk and Co.	Image pg. A14
1980	Lunn R	R. L. Polk Co., Publishers	Image pg. A19
1975	Stratton Willa	R. L. Polk Co.	Image pg. A24
1966	FRANDSEN PETER E	R. L. Polk and Co.	Image pg. A34
1961	Frandsen Peter E B	R. L. Polk Co.	Image pg. A39

FINDINGS

7711 48TH ST E

Year	Uses	Source	
1990	No Return	R. L. Polk Co.	Image pg. A8
1985	Hanenberger Carl R	R. L. Polk and Co.	Image pg. A14
1980	Hanenberger Carl R	R. L. Polk Co., Publishers	Image pg. A19
1975	Sawabini Geo	R. L. Polk Co.	Image pg. A24
1966	CRESIEWELL JOHN H	R. L. Polk and Co.	Image pg. A34
1961	Brands Wm R	R. L. Polk Co.	Image pg. A39

7716 48TH ST E

Year	Uses	Source	
1990	Zimmerman Robt C	R. L. Polk Co.	Image pg. A8
1985	Zimmerman Robt C	R. L. Polk and Co.	Image pg. A14
1980	Zimmerman Robt C	R. L. Polk Co., Publishers	Image pg. A19
1975	Zimmerman Robt C	R. L. Polk Co.	Image pg. A24
1966	ZIMMERMAN CHARLES B	R. L. Polk and Co.	Image pg. A34
1961	Zimmerman Chas B t	R. L. Polk Co.	Image pg. A39

7717 48TH ST E

Year	Uses	Source	
1990	Givens James H	R. L. Polk Co.	Image pg. A8
1985	Givens James H	R. L. Polk and Co.	Image pg. A14
1980	Givens James H	R. L. Polk Co., Publishers	Image pg. A19
1975	Givens James H	R. L. Polk Co.	Image pg. A24
1966	GIBBONS JAMES H	R. L. Polk and Co.	Image pg. A34
1961	Spena Darryl D B	R. L. Polk Co.	Image pg. A39

48TH ST W

7700 48TH ST W

Year	Uses	Source	
1990	Dold Jack D	R. L. Polk Co.	Image pg. A9

7701 48TH ST W

Year	Uses	Source	
1990	Turowsky Stanley	R. L. Polk Co.	Image pg. A9

7704 48TH ST W

Year	Uses	Source	
1990	Robertson C	R. L. Polk Co.	Image pg. A9

FINDINGS

7705 48TH ST W

Year	Uses	Source	
1990	Edde Oral L	R. L. Polk Co.	Image pg. A9

7708 48TH ST W

Year	Uses	Source	
1990	Weir Edmond V	R. L. Polk Co.	Image pg. A9

7711 48TH ST W

Year	Uses	Source	
1990	Black Winona L Mrs	R. L. Polk Co.	Image pg. A9

7714 48TH ST W

Year	Uses	Source	
1990	Hackett Mark F	R. L. Polk Co.	Image pg. A9

7715 48TH ST W

Year	Uses	Source	
1990	Grady George R	R. L. Polk Co.	Image pg. A9

E 47TH ST TER

7600 E 47TH ST TER

Year	Uses	Source	
1970	MEIER RUBY MRS	R. L. Polk Co.	Image pg. A27

7601 E 47TH ST TER

Year	Uses	Source	
1970	ANWANDER MARVIN B	R. L. Polk Co.	Image pg. A27

7605 E 47TH ST TER

Year	Uses	Source	
1970	WARDEN LLOYD E	R. L. Polk Co.	Image pg. A27

7608 E 47TH ST TER

Year	Uses	Source	
1970	JACCBS RICHO C	R. L. Polk Co.	Image pg. A27

7611 E 47TH ST TER

Year	Uses	Source	
1970	GREENLEE BEN C	R. L. Polk Co.	Image pg. A27

FINDINGS

7614 E 47TH ST TER

Year	Uses	Source	
1970	VACANT	R. L. Polk Co.	Image pg. A27

7617 E 47TH ST TER

Year	Uses	Source	
1970	SLATON GORDON	R. L. Polk Co.	Image pg. A27

7618 E 47TH ST TER

Year	Uses	Source	
1970	JOSEPH JOHN E	R. L. Polk Co.	Image pg. A27

7623 E 47TH ST TER

Year	Uses	Source	
1970	SMIIH LOUIS E	R. L. Polk Co.	Image pg. A27

7624 E 47TH ST TER

Year	Uses	Source	
1970	FINDLEY RICHO A	R. L. Polk Co.	Image pg. A27

7700 E 47TH ST TER

Year	Uses	Source	
1970	BANNISTER STEVCN P	R. L. Polk Co.	Image pg. A27

7701 E 47TH ST TER

Year	Uses	Source	
1970	DELA CRUZ SALVADORE	R. L. Polk Co.	Image pg. A27

7705 E 47TH ST TER

Year	Uses	Source	
1970	MAY JOHN	R. L. Polk Co.	Image pg. A27

7706 E 47TH ST TER

Year	Uses	Source	
1970	STOLTZ THOS R	R. L. Polk Co.	Image pg. A27

7709 E 47TH ST TER

Year	Uses	Source	
1970	JENKINS RONALD	R. L. Polk Co.	Image pg. A27

7710 E 47TH ST TER

Year	Uses	Source	
1970	HOLDERFIELD LARRY G	R. L. Polk Co.	Image pg. A27

FINDINGS

7714 E 47TH ST TER

Year	Uses	Source	
1970	HICKMAN HARRY	R. L. Polk Co.	Image pg. A27

7715 E 47TH ST TER

Year	Uses	Source	
1970	NELSON LOUIS H	R. L. Polk Co.	Image pg. A27

7718 E 47TH ST TER

Year	Uses	Source	
1970	SMITH PAUL	R. L. Polk Co.	Image pg. A27

7719 E 47TH ST TER

Year	Uses	Source	
1970	CUDNEY RUTH	R. L. Polk Co.	Image pg. A27

7800 E 47TH ST TER

Year	Uses	Source	
1970	HESS ROY E	R. L. Polk Co.	Image pg. A27

7801 E 47TH ST TER

Year	Uses	Source	
1970	DUNN MICHL W	R. L. Polk Co.	Image pg. A27

7804 E 47TH ST TER

Year	Uses	Source	
1970	VOSPETTE ANORE L	R. L. Polk Co.	Image pg. A27

7805 E 47TH ST TER

Year	Uses	Source	
1970	SMITH CLARENCE	R. L. Polk Co.	Image pg. A27

7809 E 47TH ST TER

Year	Uses	Source	
1970	BIRD ALBERT M	R. L. Polk Co.	Image pg. A27

7812 E 47TH ST TER

Year	Uses	Source	
1970	ELROD JOHN C	R. L. Polk Co.	Image pg. A27

7815 E 47TH ST TER

Year	Uses	Source	
1970	COTTEN CLIFFORD C	R. L. Polk Co.	Image pg. A27

FINDINGS

7816 E 47TH ST TER

Year	Uses	Source	
1970	SULLIVAN ROOT L	R. L. Polk Co.	Image pg. A27

7819 E 47TH ST TER

Year	Uses	Source	
1970	NICHOLAS GERALDINE L MRS	R. L. Polk Co.	Image pg. A28

E 47TH TER

7600 E 47TH TER

Year	Uses	Source	
2006	Aloneo Thomas Jr	Cole Information Services	
2000	Thomas Alonzo Jr	R. L. Polk Co. Publishers	Image pg. A1
	Thomas Quantatine T	R. L. Polk Co. Publishers	Image pg. A1

7601 E 47TH TER

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Mc Kinney Alice M	R. L. Polk Co. Publishers	Image pg. A1
	Mc Kinney Troy N	R. L. Polk Co. Publishers	Image pg. A1
	Craig William D & Angel	R. L. Polk Co. Publishers	Image pg. A1

7605 E 47TH TER

Year	Uses	Source	
2000	Miller Aimee J	R. L. Polk Co. Publishers	Image pg. A1
	Miller Dale L	R. L. Polk Co. Publishers	Image pg. A1

7608 E 47TH TER

Year	Uses	Source	
2006	Ella S West	Cole Information Services	
	Donald R West	Cole Information Services	
2000	West Donald R & Ella	R. L. Polk Co. Publishers	Image pg. A1

7611 E 47TH TER

Year	Uses	Source	
2006	Martie Harter	Cole Information Services	
	Greg Lynn Harter	Cole Information Services	
2000	Harter Justin T	R. L. Polk Co. Publishers	Image pg. A1
	Harter Martie	R. L. Polk Co. Publishers	Image pg. A1

FINDINGS

7614 E 47TH TER

Year	Uses	Source	
2006	B Fanniel	Cole Information Services	
2000	Nelson Bonnie L	R. L. Polk Co. Publishers	Image pg. A1

7617 E 47TH TER

Year	Uses	Source	
2000	Conne 9 Robert L	R. L. Polk Co. Publishers	Image pg. A1
	Connell Anita G	R. L. Polk Co. Publishers	Image pg. A1

7618 E 47TH TER

Year	Uses	Source	
2006	Misty Tillman	Cole Information Services	
2000	Tillman Misty A	R. L. Polk Co. Publishers	Image pg. A1

7623 E 47TH TER

Year	Uses	Source	
2006	Wanda E Casteel	Cole Information Services	
	Marion A Robinson	Cole Information Services	
	Kansas City Home Beautifiers	Cole Information Services	
2000	Beasley Keri A	R. L. Polk Co. Publishers	Image pg. A1

7624 E 47TH TER

Year	Uses	Source	
2000	Taylor Robert A	R. L. Polk Co. Publishers	Image pg. A1
	Taylor Donald W	R. L. Polk Co. Publishers	Image pg. A1

7700 E 47TH TER

Year	Uses	Source	
2006	Nancy H Campbell	Cole Information Services	
	Thomas J Campbell	Cole Information Services	
2000	Not Verified	R. L. Polk Co. Publishers	Image pg. A1

7701 E 47TH TER

Year	Uses	Source	
2006	Ann Scarlett	Cole Information Services	
	Joyce Ann Scarlett	Cole Information Services	
2000	Scarlett Joyce A	R. L. Polk Co. Publishers	Image pg. A1

7705 E 47TH TER

Year	Uses	Source	
2006	Marlon Callier	Cole Information Services	

FINDINGS

Year	Uses	Source	
2000	Thomas Kimberly	R. L. Polk Co. Publishers	Image pg. A1

7706 E 47TH TER

Year	Uses	Source	
2000	Beck Mary E	R. L. Polk Co. Publishers	Image pg. A1

7709 E 47TH TER

Year	Uses	Source	
2006	Derra D Duvall	Cole Information Services	
2000	Chavez Jason	R. L. Polk Co. Publishers	Image pg. A1

7710 E 47TH TER

Year	Uses	Source	
2006	Amy Pelsor	Cole Information Services	
2000	Pittman Anne	R. L. Polk Co. Publishers	Image pg. A1
	G Not Verified	R. L. Polk Co. Publishers	Image pg. A1

7714 E 47TH TER

Year	Uses	Source	
2006	Bonnie J Crook	Cole Information Services	
	Dawn M Crook	Cole Information Services	
2000	Crook Mark P & Dawn	R. L. Polk Co. Publishers	Image pg. A1

7715 E 47TH TER

Year	Uses	Source	
2000	Not Verified	R. L. Polk Co. Publishers	Image pg. A1

7718 E 47TH TER

Year	Uses	Source	
2006	John Tillman	Cole Information Services	
	Helen Tillman	Cole Information Services	
2000	Allen Melvin R & Deborah	R. L. Polk Co. Publishers	Image pg. A1

7719 E 47TH TER

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Turner Richard D	R. L. Polk Co. Publishers	Image pg. A1
	Turner Brenda J	R. L. Polk Co. Publishers	Image pg. A1

FINDINGS

7800 E 47TH TER

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Martin Scott A	R. L. Polk Co. Publishers	Image pg. A1
	Martin Dawn R	R. L. Polk Co. Publishers	Image pg. A1

7801 E 47TH TER

Year	Uses	Source
2006	Deanna Tugan	Cole Information Services

7804 E 47TH TER

Year	Uses	Source	
2006	D Miller	Cole Information Services	
2000	Marriott Jackie E	R. L. Polk Co. Publishers	Image pg. A1
	Merriott Valerie A	R. L. Polk Co. Publishers	Image pg. A1

7805 E 47TH TER

Year	Uses	Source	
2006	Robert L Deberry	Cole Information Services	
2000	Roland Ida S	R. L. Polk Co. Publishers	Image pg. A1

7809 E 47TH TER

Year	Uses	Source	
2006	Marilyn L Sofia	Cole Information Services	
	Jack D Sofia	Cole Information Services	
2000	Sofia Jack D	R. L. Polk Co. Publishers	Image pg. A1
	Sofia Marilyn L	R. L. Polk Co. Publishers	Image pg. A1

7812 E 47TH TER

Year	Uses	Source	
2006	Aaron L Simmons	Cole Information Services	
	Priscilla A Simmons	Cole Information Services	
2000	Harget Todd	R. L. Polk Co. Publishers	Image pg. A1
	Harget Michelle	R. L. Polk Co. Publishers	Image pg. A1

7815 E 47TH TER

Year	Uses	Source	
2006	Mary A Thompson	Cole Information Services	
2000	Thompson Mary A E	R. L. Polk Co. Publishers	Image pg. A1

FINDINGS

7816 E 47TH TER

Year	Uses	Source	
2006	Nicholas K Montoya	Cole Information Services	
	Mary Ellen Montoya	Cole Information Services	
2000	Montoya Nicholas K	R. L. Polk Co. Publishers	Image pg. A1
	Montoya Mary E	R. L. Polk Co. Publishers	Image pg. A1

7819 E 47TH TER

Year	Uses	Source	
2006	Miles S Clauson	Cole Information Services	
2000	White Marsha A	R. L. Polk Co. Publishers	Image pg. A1

E 48TH ST

7606 E 48TH ST

Year	Uses	Source	
2006	Jason Ferguson	Cole Information Services	
	Kay Ferguson	Cole Information Services	
2000	Jenkins Kay	R. L. Polk Co. Publishers	Image pg. A2
	Jenkins Anthony D	R. L. Polk Co. Publishers	Image pg. A2
1970	CHILDERS HARRY H	R. L. Polk Co.	Image pg. A28

7609 E 48TH ST

Year	Uses	Source	
2006	Ceci Derks	Cole Information Services	
	Betty M Derks	Cole Information Services	
2000	Derks Theodore F E	R. L. Polk Co. Publishers	Image pg. A2
1970	LARKINS EARL W	R. L. Polk Co.	Image pg. A28

7610 E 48TH ST

Year	Uses	Source	
2006	William S Jackson	Cole Information Services	
2000	Not Verified	R. L. Polk Co. Publishers	Image pg. A2
1970	JACKSON WM a	R. L. Polk Co.	Image pg. A28

7614 E 48TH ST

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Mackey Richard L & Dorothy	R. L. Polk Co. Publishers	Image pg. A2
	Jenkins Anthony D	R. L. Polk Co. Publishers	Image pg. A2
1970	BARBER JAMES K INT DEC	R. L. Polk Co.	Image pg. A28

FINDINGS

7615 E 48TH ST

Year	Uses	Source	
2006	Simon Thomas Estrada	Cole Information Services	
	Josefina M Estrada	Cole Information Services	
2000	Estrada Maria	R. L. Polk Co. Publishers	Image pg. A2
	Estrada Joe F	R. L. Polk Co. Publishers	Image pg. A2
1970	SUMMERS ANGELA M MRS	R. L. Polk Co.	Image pg. A28

7618 E 48TH ST

Year	Uses	Source	
1970	FRISTOE WM L	R. L. Polk Co.	Image pg. A28

7700 E 48TH ST

Year	Uses	Source	
2006	Jack D Dold	Cole Information Services	

7704 E 48TH ST

Year	Uses	Source	
2000	Ramsey Hazel C	R. L. Polk Co. Publishers	Image pg. A2
	Ramsey Wilbert E 1	R. L. Polk Co. Publishers	Image pg. A2
1970	COCh ERHAM GRIMBEL R	R. L. Polk Co.	Image pg. A28

7705 E 48TH ST

Year	Uses	Source	
2006	Joyce L Wilis	Cole Information Services	
2000	Meade Thomas R	R. L. Polk Co. Publishers	Image pg. A2
	Meade Frank A	R. L. Polk Co. Publishers	Image pg. A2
1970	TURLEY ROBT a	R. L. Polk Co.	Image pg. A28

7710 E 48TH ST

Year	Uses	Source	
2006	Jaime M Metoyer	Cole Information Services	
	Jaime M Metoyer	Cole Information Services	
2000	Shores Stacey	R. L. Polk Co. Publishers	Image pg. A2
	Shores Barry E M	R. L. Polk Co. Publishers	Image pg. A2
1970	STRATTON WILLA	R. L. Polk Co.	Image pg. A28

7711 E 48TH ST

Year	Uses	Source
2006	Dorsey L Simpson Jr	Cole Information Services
	Barbara A Simpson	Cole Information Services

FINDINGS

Year	Uses	Source	
2000	Simpson Dorsey L Jr	R. L. Polk Co. Publishers	Image pg. A2
	Simpson Barbara A	R. L. Polk Co. Publishers	Image pg. A2
1970	CHRISWELL JOHN H	R. L. Polk Co.	Image pg. A28

7716 E 48TH ST

Year	Uses	Source	
2008	HUDREDFOLD ENTERPRISES	Cole Information Services	
2006	No Current Listing	Cole Information Services	
2000	Zimmerman Robert C	R. L. Polk Co. Publishers	Image pg. A2
	Zimmerman Mary A	R. L. Polk Co. Publishers	Image pg. A2
1970	ZIMMERMAN CHARLES B S	R. L. Polk Co.	Image pg. A28

7717 E 48TH ST

Year	Uses	Source	
2000	Givens James	R. L. Polk Co. Publishers	Image pg. A2
	Givens Dorothy J	R. L. Polk Co. Publishers	Image pg. A2
1970	GIVENS JAMES H	R. L. Polk Co.	Image pg. A28
	BSMT VACANT	R. L. Polk Co.	Image pg. A29

OZARK RD

7500 OZARK RD

Year	Uses	Source	
1966	ASSN SOCIAL CLUB	R. L. Polk and Co.	Image pg. A32
	EASTWOOD HILLS COMMUNITY	R. L. Polk and Co.	Image pg. A32
	EASTMOOD SWIMMING CLUB	R. L. Polk and Co.	Image pg. A32
1961	Eastwood Swimming Club Inc	R. L. Polk Co.	Image pg. A37
	Association Club	R. L. Polk Co.	Image pg. A37
	Eastwood Hills Community	R. L. Polk Co.	Image pg. A37

7501 OZARK RD

Year	Uses	Source	
2006	Ernest L Galbraith	Cole Information Services	
	Jeri L Galbraith	Cole Information Services	
2000	Galbraith Jeri	R. L. Polk Co. Publishers	Image pg. A3
1995	Jeri Galbraith	Cole Publications	
1990	Tripp Mike	R. L. Polk Co.	Image pg. A6
1985	Galbraith Jeri	R. L. Polk and Co.	Image pg. A12
1980	Galbraith Jeri	R. L. Polk Co., Publishers	Image pg. A17
1975	Klemp Ronald	R. L. Polk Co.	Image pg. A22

FINDINGS

Year	Uses	Source	
1966	BURNS DOUGLAS A	R. L. Polk and Co.	Image pg. A32
1961	Longwell G Richd	R. L. Polk Co.	Image pg. A37

7505 OZARK RD

Year	Uses	Source	
2006	Brandon W Flathers	Cole Information Services	
2000	Gaulraux Stacey M M	R. L. Polk Co. Publishers	Image pg. A3
1995	Playtime Amusement	Cole Publications	
1990	Stacer Chas E	R. L. Polk Co.	Image pg. A6
1985	Atzmiller Robt J	R. L. Polk and Co.	Image pg. A12
1980	Atzmi Uer Robt J	R. L. Polk Co., Publishers	Image pg. A17
1975	Vacant	R. L. Polk Co.	Image pg. A22
1966	BARLOW RICHD M a	R. L. Polk and Co.	Image pg. A32
1961	Barlow Richd M	R. L. Polk Co.	Image pg. A37

7509 OZARK RD

Year	Uses	Source	
2000	Not Verified	R. L. Polk Co. Publishers	Image pg. A3
1995	No Current Listing	Cole Publications	
1990	Messina S	R. L. Polk Co.	Image pg. A6
1985	Copeland Mary J	R. L. Polk and Co.	Image pg. A12
1980	Tschirhart Mary J	R. L. Polk Co., Publishers	Image pg. A17
1975	Fischer Edw Jr	R. L. Polk Co.	Image pg. A22
1966	FISCHER EDW J	R. L. Polk and Co.	Image pg. A32
1961	Haling Robt E	R. L. Polk Co.	Image pg. A37

7511 OZARK RD

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Ballinger Linda C	R. L. Polk Co. Publishers	Image pg. A3
	Ballinger James F	R. L. Polk Co. Publishers	Image pg. A3
1995	James F Ballinger	Cole Publications	
1990	Ballinger James F	R. L. Polk Co.	Image pg. A6
1985	Ballinger James F	R. L. Polk and Co.	Image pg. A12
1980	Ballinger James F	R. L. Polk Co., Publishers	Image pg. A17
1975	Ballinger James F	R. L. Polk Co.	Image pg. A22
1966	JAMES WM F a	R. L. Polk and Co.	Image pg. A32
1961	King Jack	R. L. Polk Co.	Image pg. A37

FINDINGS

7517 OZARK RD

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
1995	L R Bowman	Cole Publications	
1990	Bowman L R	R. L. Polk Co.	Image pg. A6
1985	Neidinger Steph W	R. L. Polk and Co.	Image pg. A12
1980	Neidinger Steph	R. L. Polk Co., Publishers	Image pg. A17
1975	Neidinger Steph	R. L. Polk Co.	Image pg. A22
1966	PARKER JAMES L a	R. L. Polk and Co.	Image pg. A32
1961	Parker James H	R. L. Polk Co.	Image pg. A37

7600 OZARK RD

Year	Uses	Source	
2013	STATE OF MISSOURI	Cole Information Services	
2008	NANCY FERGUSON	Cole Information Services	
	STATE OF MISSOURI NATIONAL GUARD	Cole Information Services	
2006	Nancy Ferguson	Cole Information Services	
	110th Engineering Batallion	Cole Information Services	
2000	FERGUSON NANCY gift shop	R. L. Polk Co. Publishers	Image pg. A3
	MINUTEMAN CLUB commrcl	R. L. Polk Co. Publishers	Image pg. A3
	prtng lith	R. L. Polk Co. Publishers	Image pg. A3
	PUBLIC SAFETY DEPT OF	R. L. Polk Co. Publishers	Image pg. A3
	MISSOURI ARMY	R. L. Polk Co. Publishers	Image pg. A3
	NATIONAL GUARD nati	R. L. Polk Co. Publishers	Image pg. A3
	securify	R. L. Polk Co. Publishers	Image pg. A3
1995	Minuteman Club	Cole Publications	
	St Ntl Grd Recrtr	Cole Publications	
	St Ntl Grd Recrtr	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Ntl Grd Armry	Cole Publications	
	St Natl Grd Rcrtng	Cole Publications	

FINDINGS

Year	Uses	Source	
1995	St Natl Gd Rcrtr	Cole Publications	
	St NG Med Rcrtr	Cole Publications	
	St NG Det 1 Hq	Cole Publications	
	St Hq 110 Eng Cmbt	Cole Publications	
	St NG HHC 110 Eng	Cole Publications	
	St Co A 110 Eng BN	Cole Publications	
	St Co B 110 Eng	Cole Publications	
	St BN Supply Offer	Cole Publications	
	St NG 135 ROTC	Cole Publications	
	St NG 35 Div Roc	Cole Publications	
	St US Army Advsrs	Cole Publications	
1990	State Natil Guard Det 1 Co C 135th Signal Bn	R. L. Polk Co.	Image pg. A6
	State Nat I Guard Orgi Mtce Shop No	R. L. Polk Co.	Image pg. A6
	State Nati Guard 205 Military Police Btln	R. L. Polk Co.	Image pg. A6
	State Natil Guard Armory Addl	R. L. Polk Co.	Image pg. A6
	State Natil Guard Hdqtrs Trp Command Starc	R. L. Polk Co.	Image pg. A6
	State National Guard Recruiting Ofc	R. L. Polk Co.	Image pg. A6
1985	Mo Nael Guard Det 1 Co C 135th	R. L. Polk and Co.	Image pg. A12
	Signal Bn	R. L. Polk and Co.	Image pg. A12
	Mo Nate Guard Hq 110th Engineer	R. L. Polk and Co.	Image pg. A12
	Mo Nat I Guard 205 Military Police	R. L. Polk and Co.	Image pg. A12
	Mo Nate Guard 205 Medics Btln	R. L. Polk and Co.	Image pg. A12
	Mo Nati Guard 135 Station Hospital	R. L. Polk and Co.	Image pg. A12
	Mo Nati Guard Headquarters Troop	R. L. Polk and Co.	Image pg. A12
	Command St Arc	R. L. Polk and Co.	Image pg. A12
	Mo National Guard Recruiting Ofc	R. L. Polk and Co.	Image pg. A12
1980	Mo Nati Guard 436th Signal Co	R. L. Polk Co., Publishers	Image pg. A17
	Mo Natl Guard Hq 110th Engineer	R. L. Polk Co., Publishers	Image pg. A17
	Mo Nati Guard 205 Military Police	R. L. Polk Co., Publishers	Image pg. A17
	Mo Nati Guard 205 Medics Btln	R. L. Polk Co., Publishers	Image pg. A17
	Mo Natl Guard 135 Station Hospital	R. L. Polk Co., Publishers	Image pg. A17
	Mo Natl Guard 235th Engineer	R. L. Polk Co., Publishers	Image pg. A17
	Detachment	R. L. Polk Co., Publishers	Image pg. A17
	Mo Natl Guard Command And	R. L. Polk Co., Publishers	Image pg. A17
	Control Hq	R. L. Polk Co., Publishers	Image pg. A17
1975	Mo Natl Guard 436th Signal Co	R. L. Polk Co.	Image pg. A22
	Mo Natl Guard Hq 110th Engineer	R. L. Polk Co.	Image pg. A22

FINDINGS

Year	Uses	Source	
1975	Combat Btln	R. L. Polk Co.	Image pg. A22
	Mo Nat I Guard 205 Military Police	R. L. Polk Co.	Image pg. A22
	Mo Nati Guard 205 Medics Btln	R. L. Polk Co.	Image pg. A22
	Mo Nati Guard 135 U S Medical	R. L. Polk Co.	Image pg. A22
	Hospital	R. L. Polk Co.	Image pg. A22

7605 OZARK RD

Year	Uses	Source	
2006	Essie Mae Gulledge	Cole Information Services	
	Bradley W Gulledge	Cole Information Services	
2000	Gulledge Bradley W	R. L. Polk Co. Publishers	Image pg. A3
	Gulledge Essie M	R. L. Polk Co. Publishers	Image pg. A3
1995	Robert W Gulledge	Cole Publications	
1990	Gulledge Essie	R. L. Polk Co.	Image pg. A6
1985	Gulledge Robt W	R. L. Polk and Co.	Image pg. A12
1980	Gulledge Robt W	R. L. Polk Co., Publishers	Image pg. A17
1975	Gulledge Robt W	R. L. Polk Co.	Image pg. A22
1966	SERRANO GALO R a	R. L. Polk and Co.	Image pg. A32
1961	Serrano Galo	R. L. Polk Co.	Image pg. A37

7611 OZARK RD

Year	Uses	Source	
2006	Linda Neil Thornton	Cole Information Services	
	Joseph Martin Thornton	Cole Information Services	
2000	Thornton Vernon & Linda	R. L. Polk Co. Publishers	Image pg. A3
1995	Linda Thornton	Cole Publications	
1990	Thornton Vern	R. L. Polk Co.	Image pg. A6
1985	Robinson James E	R. L. Polk and Co.	Image pg. A12
1980	Robinson James E	R. L. Polk Co., Publishers	Image pg. A17
1975	Robinson James E	R. L. Polk Co.	Image pg. A22
1966	ROBINSON JAMES E a	R. L. Polk and Co.	Image pg. A32

7621 OZARK RD

Year	Uses	Source	
2000	Andonle Charles A M A	R. L. Polk Co. Publishers	Image pg. A3
	Andonie Christina M	R. L. Polk Co. Publishers	Image pg. A3
	Raepke Christina M M	R. L. Polk Co. Publishers	Image pg. A3
	Raepke Mike	R. L. Polk Co. Publishers	Image pg. A3
1995	Leslie McClure	Cole Publications	

FINDINGS

Year	Uses	Source	
1990	Scheffe Victor	R. L. Polk Co.	Image pg. A6
1985	Scheffe Victor	R. L. Polk and Co.	Image pg. A12
1980	Nolan Patricia A	R. L. Polk Co., Publishers	Image pg. A17
1975	Nolan Patti	R. L. Polk Co.	Image pg. A22
1966	CRAWFORD DONALD L a	R. L. Polk and Co.	Image pg. A32
1961	Crawford Donald L	R. L. Polk Co.	Image pg. A37

7627 OZARK RD

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Not Verified	R. L. Polk Co. Publishers	Image pg. A3
1995	No Current Listing	Cole Publications	
1990	Vacant	R. L. Polk Co.	Image pg. A6
1980	Price M S Mrs	R. L. Polk Co., Publishers	Image pg. A17
1975	Pennington B L	R. L. Polk Co.	Image pg. A22
1966	PENNINGTON 8 L	R. L. Polk and Co.	Image pg. A32
1961	Bourdess Howard L	R. L. Polk Co.	Image pg. A37

7633 OZARK RD

Year	Uses	Source	
2006	Willie L Hicks	Cole Information Services	
	Terry Hicks	Cole Information Services	
2000	Marin Vicente & Jacqueline M	R. L. Polk Co. Publishers	Image pg. A3
1995	Jas Dickerson	Cole Publications	
1990	Hicks Robt L	R. L. Polk Co.	Image pg. A6
1985	Newell James M	R. L. Polk and Co.	Image pg. A12
1980	Newell James M	R. L. Polk Co., Publishers	Image pg. A17
1975	Michaels Larry D	R. L. Polk Co.	Image pg. A22
1966	RICKER GERALD L	R. L. Polk and Co.	Image pg. A32
1961	Logap Jack N	R. L. Polk Co.	Image pg. A37

7639 OZARK RD

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Recob Darrell E Jr & Janet M	R. L. Polk Co. Publishers	Image pg. A3
1990	Vacant	R. L. Polk Co.	Image pg. A6
1985	Vacant	R. L. Polk and Co.	Image pg. A12
1966	BROUSE CHARLES E a	R. L. Polk and Co.	Image pg. A32
1961	Brouse Chas E	R. L. Polk Co.	Image pg. A37

FINDINGS

7701 OZARK RD

Year	Uses	Source	
2006	Gena Kave Rows	Cole Information Services	
2000	Raepke Mike	R. L. Polk Co. Publishers	Image pg. A3
	Ott Joni 0	R. L. Polk Co. Publishers	Image pg. A3
1995	Corky Nickerson	Cole Publications	
1990	Nickerson Corky B	R. L. Polk Co.	Image pg. A6
1985	Nickerson Corky B	R. L. Polk and Co.	Image pg. A12
1966	DOHERTY EDMOND	R. L. Polk and Co.	Image pg. A32
1961	Pickney Chas R	R. L. Polk Co.	Image pg. A37

7707 OZARK RD

Year	Uses	Source	
2006	Jackie Wilson	Cole Information Services	
2000	Jones Kenneth K	R. L. Polk Co. Publishers	Image pg. A3
1995	No Current Listing	Cole Publications	
1990	Hammond Jesse	R. L. Polk Co.	Image pg. A6
1985	Hammond Jesse	R. L. Polk and Co.	Image pg. A12
1980	Burdge Keith A	R. L. Polk Co., Publishers	Image pg. A17
1975	Talbott Mark E	R. L. Polk Co.	Image pg. A22
1966	VACANT	R. L. Polk and Co.	Image pg. A32
1961	Lambrecht Carl J	R. L. Polk Co.	Image pg. A37

7711 OZARK RD

Year	Uses	Source	
2000	York Eva L	R. L. Polk Co. Publishers	Image pg. A3
	York James M	R. L. Polk Co. Publishers	Image pg. A3
1995	No Current Listing	Cole Publications	
1990	Owings Win R	R. L. Polk Co.	Image pg. A6
1985	Owings Wm R	R. L. Polk and Co.	Image pg. A12
1980	Owings Wm R	R. L. Polk Co., Publishers	Image pg. A17
1975	Owings Wm R	R. L. Polk Co.	Image pg. A22
1966	VACANT	R. L. Polk and Co.	Image pg. A32
1961	Mc Farland Bill G W	R. L. Polk Co.	Image pg. A37

7715 OZARK RD

Year	Uses	Source	
2006	Donald Ray Hale	Cole Information Services	
	Donna Sue Hale	Cole Information Services	
2000	Hale Donald R & Donna	R. L. Polk Co. Publishers	Image pg. A3

FINDINGS

Year	Uses	Source	
1995	No Current Listing	Cole Publications	
1990	Hale Jody L	R. L. Polk Co.	Image pg. A6
1985	Hale Donald R	R. L. Polk and Co.	Image pg. A12
1980	Nation Gary R	R. L. Polk Co., Publishers	Image pg. A17
1975	Nation Gary R	R. L. Polk Co.	Image pg. A22
1966	PARKER CHARLES E a	R. L. Polk and Co.	Image pg. A32
1961	Parker Chas E	R. L. Polk Co.	Image pg. A37

7719 OZARK RD

Year	Uses	Source	
2006	James W Herrington Sr	Cole Information Services	
	Hazel A Herrington	Cole Information Services	
2000	Harrington James W & Hazel	R. L. Polk Co. Publishers	Image pg. A3
1995	J W Herrington Sr	Cole Publications	
1990	Herrington James W	R. L. Polk Co.	Image pg. A6
1985	Herrington James W	R. L. Polk and Co.	Image pg. A12
1980	Hert ington James W	R. L. Polk Co., Publishers	Image pg. A17
1975	Herrington James W	R. L. Polk Co.	Image pg. A22
1966	HERRINGTON JAMES W a	R. L. Polk and Co.	Image pg. A32
1961	Herrington James W	R. L. Polk Co.	Image pg. A37

7801 OZARK RD

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Brand Betty R	R. L. Polk Co. Publishers	Image pg. A3
	Brand Donald W	R. L. Polk Co. Publishers	Image pg. A3
1995	Donald W Brand	Cole Publications	
1990	Brand Donald W	R. L. Polk Co.	Image pg. A6
1985	Brand Donald W	R. L. Polk and Co.	Image pg. A12
1980	No Return	R. L. Polk Co., Publishers	Image pg. A17
1975	Brand Donald W	R. L. Polk Co.	Image pg. A22
1966	MEYERS JOHN R	R. L. Polk and Co.	Image pg. A32
1961	Vacant	R. L. Polk Co.	Image pg. A37

7805 OZARK RD

Year	Uses	Source	
2006	Robert A Riley	Cole Information Services	
	Rita A Riley	Cole Information Services	
2000	Riley Robert A	R. L. Polk Co. Publishers	Image pg. A3

FINDINGS

Year	Uses	Source	
2000	Riley Rita A	R. L. Polk Co. Publishers	Image pg. A3
1995	Robert A Riley	Cole Publications	
1990	Riley Robt A	R. L. Polk Co.	Image pg. A6
1985	Riley Robt A	R. L. Polk and Co.	Image pg. A12
1980	Riley Robt A	R. L. Polk Co., Publishers	Image pg. A17
1975	Riley Robt A	R. L. Polk Co.	Image pg. A22
1966	RILEY ROBT A a	R. L. Polk and Co.	Image pg. A32
1961	Jones Robt A	R. L. Polk Co.	Image pg. A37

7815 OZARK RD

Year	Uses	Source	
2006	Glenn Griffith	Cole Information Services	
1995	No Current Listing	Cole Publications	
1990	Jordan Harold	R. L. Polk Co.	Image pg. A6
1985	Jordan Harold E	R. L. Polk and Co.	Image pg. A12
1980	Jordan Harold E	R. L. Polk Co., Publishers	Image pg. A17
1975	Holloway John G	R. L. Polk Co.	Image pg. A22
1966	HOLLOWAY JOHN G a	R. L. Polk and Co.	Image pg. A32
1961	Holloway John G	R. L. Polk Co.	Image pg. A37

7819 OZARK RD

Year	Uses	Source	
2006	No Current Listing	Cole Information Services	
2000	Sanders Clarence E Jr	R. L. Polk Co. Publishers	Image pg. A3
	Carolyn M 1+ A	R. L. Polk Co. Publishers	Image pg. A3
1995	Clarence E Sanders	Cole Publications	
1990	Sanders Clarence E	R. L. Polk Co.	Image pg. A6
1985	Sanders Clarence E	R. L. Polk and Co.	Image pg. A12
1980	Sanders Clarence E	R. L. Polk Co., Publishers	Image pg. A17
1975	Sanders Clarence E	R. L. Polk Co.	Image pg. A22
1966	SANDERS CLARENCE E a	R. L. Polk and Co.	Image pg. A32
1961	Seymour Chas E H	R. L. Polk Co.	Image pg. A37

PALMER

4800 PALMER

Year	Uses	Source
1995	Adam Taylor	Cole Publications

FINDINGS

4809 PALMER

Year	Uses	Source	
1995	No Current Listing	Cole Publications	

PALMER AVE

4733 PALMER AVE

Year	Uses	Source	
2006	Paula G Mossomillo	Cole Information Services	
2000	Gross Delanna J B	R. L. Polk Co. Publishers	Image pg. A4

4800 PALMER AVE

Year	Uses	Source	
2006	James Loren Taylor	Cole Information Services	
	Richard A Strauss	Cole Information Services	
2000	Taylor Adam	R. L. Polk Co. Publishers	Image pg. A4
	Taylor James L	R. L. Polk Co. Publishers	Image pg. A4

4809 PALMER AVE

Year	Uses	Source	
2006	Jerry Michael Holland	Cole Information Services	
2000	Mahoney Elizabeth C	R. L. Polk Co. Publishers	Image pg. A4

PALMER DR

4733 PALMER DR

Year	Uses	Source	
1990	No Return	R. L. Polk Co.	Image pg. A10
1985	Nicholson Wm D	R. L. Polk and Co.	Image pg. A15
1980	Cleary Robt J	R. L. Polk Co., Publishers	Image pg. A20
1975	Cleary Robt J	R. L. Polk Co.	Image pg. A25
1970	CLEARY ROBT J a	R. L. Polk Co.	Image pg. A30
1966	GORING FRANCIS J	R. L. Polk and Co.	Image pg. A35
1961	Aulgur Cecil E	R. L. Polk Co.	Image pg. A40

4800 PALMER DR

Year	Uses	Source	
1990	Taylor James	R. L. Polk Co.	Image pg. A10
1985	Taylor James	R. L. Polk and Co.	Image pg. A15
1980	Teel Ollie B Mrs	R. L. Polk Co., Publishers	Image pg. A20
	Taylor Adam	R. L. Polk Co., Publishers	Image pg. A20

Year	Uses	Source	
1975	Teel OUie B Mrs	R. L. Polk Co.	Image pg. A25
	Garrison 0 A	R. L. Polk Co.	Image pg. A25
1970	TEEL OLLIE MRS	R. L. Polk Co.	Image pg. A30
	GARRISON 0 A	R. L. Polk Co.	Image pg. A30
1966	GARRISON 0 A S WA 3 775 B	R. L. Polk and Co.	Image pg. A35
1961	Garrison OA B	R. L. Polk Co.	Image pg. A40

4809 PALMER DR

Year	Uses	Source	
1985	Shepard Mary	R. L. Polk and Co.	Image pg. A15
1980	Mc Guire M	R. L. Polk Co., Publishers	Image pg. A20
1975	Kolie Richd A	R. L. Polk Co.	Image pg. A25
1970	CHANDLER LAWRENCE	R. L. Polk Co.	Image pg. A30
1966	CHANDLER LAWRENCE	R. L. Polk and Co.	Image pg. A35
1961	Chandler Lawrence	R. L. Polk Co.	Image pg. A40

RICHMOND AVE

4705 RICHMOND AVE

Year	Uses	Source
1995	No Current Listing	Cole Publications

4710 RICHMOND AVE

Year	Uses	Source
1995	James Martin	Cole Publications

4711 RICHMOND AVE

Year	Uses	Source
1995	No Current Listing	Cole Publications

4720 RICHMOND AVE

Year	Uses	Source
1995	No Current Listing	Cole Publications

4721 RICHMOND AVE

Year	Uses	Source
1995	No Current Listing	Cole Publications

4726 RICHMOND AVE

Year	Uses	Source
2006	No Current Listing	Cole Information Services

FINDINGS

Year	Uses	Source	
2000	Riddle Deann D S	R. L. Polk Co. Publishers	Image pg. A5
1995	No Current Listing	Cole Publications	
1990	Riddle James E Jr	R. L. Polk Co.	Image pg. A11
1985	Riddle James E Jr	R. L. Polk and Co.	Image pg. A16
1980	Riddle James E Jr	R. L. Polk Co., Publishers	Image pg. A21
1975	EUmaker Viola P Mrs	R. L. Polk Co.	Image pg. A26
1970	ELLMAKER CHARLES F o	R. L. Polk Co.	Image pg. A31
1966	ELLMAKER CHARLES F	R. L. Polk and Co.	Image pg. A36
1961	Ellmaker Chas F	R. L. Polk Co.	Image pg. A41

4727 RICHMOND AVE

Year	Uses	Source
1995	No Current Listing	Cole Publications

4728 RICHMOND AVE

Year	Uses	Source
1995	Lena Reyes	Cole Publications

4730 RICHMOND AVE

Year	Uses	Source	
2006	Gregory K Smith	Cole Information Services	
	Douglas J Smith	Cole Information Services	
2000	Smith Karen S	R. L. Polk Co. Publishers	Image pg. A5
	Smith Gregory K	R. L. Polk Co. Publishers	Image pg. A5
1995	Gregory Smith	Cole Publications	
1990	Smith Gregory K	R. L. Polk Co.	Image pg. A11
1985	Smith Gregory K	R. L. Polk and Co.	Image pg. A16
1980	Smith Gregory K	R. L. Polk Co., Publishers	Image pg. A21
1975	Smith Geo	R. L. Polk Co.	Image pg. A26
1970	WALKER OREN	R. L. Polk Co.	Image pg. A31
1966	WOOD JOHN L	R. L. Polk and Co.	Image pg. A36
1961	Henderson A Paul	R. L. Polk Co.	Image pg. A41

4734 RICHMOND AVE

Year	Uses	Source	
2006	Sean Elze	Cole Information Services	
2000	Allison Barbara J	R. L. Polk Co. Publishers	Image pg. A5
	Allison Larry N	R. L. Polk Co. Publishers	Image pg. A5
1995	Larry N Allison	Cole Publications	
1990	No Return	R. L. Polk Co.	Image pg. A11

FINDINGS

Year	Uses	Source	
1985	No Return	R. L. Polk and Co.	Image pg. A16
1980	No Return	R. L. Polk Co., Publishers	Image pg. A21
1975	Allison Larry N	R. L. Polk Co.	Image pg. A26
1970	ALLISON LARRY N a	R. L. Polk Co.	Image pg. A31
1966	ALLISON LARRY N	R. L. Polk and Co.	Image pg. A36
1961	Allison Larry N	R. L. Polk Co.	Image pg. A41

4735 RICHMOND AVE

Year	Uses	Source
1995	J D Schaible	Cole Publications

4736 RICHMOND AVE

Year	Uses	Source
1995	No Current Listing	Cole Publications

4738 RICHMOND AVE

Year	Uses	Source	
2006	Curtis L Larson	Cole Information Services	
	Vickie Jean Larson	Cole Information Services	
2000	Larson Vickie J	R. L. Polk Co. Publishers	Image pg. A5
	Larson Christopher	R. L. Polk Co. Publishers	Image pg. A5
1995	No Current Listing	Cole Publications	
1990	Peace Bob	R. L. Polk Co.	Image pg. A11
1985	Browton Angela	R. L. Polk and Co.	Image pg. A16
1980	Coberley Wilbur J	R. L. Polk Co., Publishers	Image pg. A21
1975	Coberley Wilbur J	R. L. Polk Co.	Image pg. A26
1970	COBERLEY WILBUR J	R. L. Polk Co.	Image pg. A31
1966	COBERLEY WILBUR J	R. L. Polk and Co.	Image pg. A36
1961	Crowther Donald	R. L. Polk Co.	Image pg. A41

4741 RICHMOND AVE

Year	Uses	Source
1995	Bill E Morrison	Cole Publications

4742 RICHMOND AVE

Year	Uses	Source
1995	Thomas W Brough Jr	Cole Publications

FINDINGS

4750 RICHMOND AVE

Year	***Uses***	***Source***
1995	No Current Listing	Cole Publications

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
8100 Ozark Road	2013, 2000, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
4705 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4710 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4711 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4720 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4721 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4726 RICHMOND AVE	2013, 2008, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4727 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4728 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4730 RICHMOND AVE	2013, 2008, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4733 PALMER AVE	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4733 PALMER DR	2013, 2008, 2006, 2000, 1995, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4734 RICHMOND AVE	2013, 2008, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4735 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4736 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4738 RICHMOND AVE	2013, 2008, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4741 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4742 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4750 RICHMOND AVE	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
4800 PALMER	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4800 PALMER AVE	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4800 PALMER DR	2013, 2008, 2006, 2000, 1995, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4809 PALMER	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4809 PALMER AVE	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
4809 PALMER DR	2013, 2008, 2006, 2000, 1995, 1990, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7500 OZARK RD	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7501 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7505 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7509 OZARK RD	2013, 2008, 2006, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7511 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7517 OZARK RD	2013, 2008, 2000, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7600 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7600 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7600 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7600 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7600 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7600 OZARK RD	2013, 2008, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7600 OZARK RD	2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7601 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7601 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7601 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7601 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7601 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7605 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7605 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7605 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7605 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7605 E 47TH TER	2013, 2008, 2006, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7605 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7606 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7606 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7608 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7608 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7608 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7608 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7608 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7609 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7609 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7610 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7610 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7611 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7611 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7611 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7611 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7611 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7611 OZARK RD	2013, 2008, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7614 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7614 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7614 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7614 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7614 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7614 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7614 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7615 48TH ST E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7615 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7617 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7617 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7617 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7617 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7617 E 47TH TER	2013, 2008, 2006, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7618 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7618 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7618 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7618 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7618 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7618 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7618 E 48TH ST	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7621 OZARK RD	2013, 2008, 2006, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7623 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7623 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7623 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7623 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7623 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7624 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7624 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7624 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7624 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7624 E 47TH TER	2013, 2008, 2006, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7627 OZARK RD	2013, 2008, 1985, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7633 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7639 OZARK RD	2013, 2008, 1995, 1980, 1975, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7700 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7700 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7700 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7700 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7700 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7700 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7700 E 48TH ST	2013, 2008, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7701 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7701 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7701 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7701 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7701 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7701 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7701 OZARK RD	2013, 2008, 1980, 1975, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7704 48TH E	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7704 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7704 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7704 E 48TH ST	2013, 2008, 2006, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 48TH E	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7705 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7706 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7706 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7706 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7706 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7706 E 47TH TER	2013, 2008, 2006, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7707 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7708 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7709 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7709 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7709 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7709 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7709 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7710 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7710 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7710 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7710 48TH E	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7710 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7710 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7710 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7710 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7711 48TH E	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7711 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7711 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7711 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7711 OZARK RD	2013, 2008, 2006, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7714 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7714 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7714 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7714 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7714 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7714 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7715 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7715 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7715 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7715 48TH ST W	2013, 2008, 2006, 2000, 1995, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7715 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7715 E 47TH TER	2013, 2008, 2006, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7715 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7716 48TH E	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7716 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7716 E 48TH ST	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7716 E 48TH ST	2013, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7717 48TH E	2013, 2008, 2006, 2000, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7717 48TH ST E	2013, 2008, 2006, 2000, 1995, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7717 E 48TH ST	2013, 2008, 2006, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7718 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1980, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7718 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7718 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7718 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7718 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7719 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7719 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7719 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7719 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7719 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7719 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7800 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7800 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7800 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7800 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7800 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7801 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7801 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7801 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7801 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7801 E 47TH TER	2013, 2008, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7801 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7804 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7804 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7804 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7804 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7804 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7805 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7805 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7805 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7805 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7805 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7805 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7809 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7809 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7809 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7809 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7809 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7812 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7812 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7812 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7812 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7812 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

FINDINGS

Address Researched	Address Not Identified in Research Source
7815 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7815 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7815 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7815 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7815 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7815 OZARK RD	2013, 2008, 2000, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7816 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7816 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7816 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7816 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7816 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7819 47TH ST TER E	2013, 2008, 2006, 2000, 1995, 1990, 1970, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7819 47TH STREET TER E	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7819 47TH TER E	2013, 2008, 2006, 2000, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7819 E 47TH ST TER	2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7819 E 47TH TER	2013, 2008, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909
7819 OZARK RD	2013, 2008, 1970, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

Source Page Images Appendix

TP	Adjoining	Source
-	✓	R. L. Polk Co. Publishers

E 47TH TER 2000

W 47TH ST
223 BROOKSIDE GARDEN APARTMENTS apmnt bldg oprtrs 756-3705
300 PRUDENTIAL SECURITIES security brkrs dir 932-6300
333Ⓓ Parker Brian ♠
333 TRIAD MORTGAGE & REALTY FUNDING mtg bkrs corrspndn 561-7000
400 PORTCULLIS CAPITAL GROUP security brkrs dir 753-1551
401 CAPITAL CONNECTIONS mgmt cnsltng svcs 561-6622
401 SCHUSTER KANE ALLIANCE THE mgmt cnsltng svcs 753-7055
404 FIRST COMMERCIAL RE SERVICES real est agts'mgrs 960-0555
404 LEASEHOLD CONTROL CORPORATION mgmt cnsltng svcs 960-0565
411 Stevenin Barbara J [9]+ ♠
412 PETROLEUM TECHNOLOGIES crude ptrlm nat gas ... 531-6904
421 MCCOY ENTERPRISES real est agts'mgrs 756-1991
423 WHEAT FIRST UNION security brkrs dir 753-4469
491 FAVORITE NURSES FAVORITE TEMPORARYS ofcs hlth prnrs 531-3131

· ZIP CODE 64112 CAR-RT C016
888Ⓓ Carlson Randal U..... 931-7878
+MADISON AVE ENDS
+ROANOKE PKWY INTERSECTS

· ZIP CODE 64112 CAR-RT C018
919 Not Verified
920Ⓓ Wells Robert V 931-6161
+BELLEVIEW AVE INTERSECTS
1013 ALFREDOS HAIR DESIGN barber shops..... 531-3999
+JARBOE ST INTERSECTS
1101 Heins Sammy & Suzanne [6] ♠ 531-3155
Ⓐ Parker George L & Marguerite ♠ ... 753-8166
B Kidwell Jamie V [4]
1103 Not Verified
1103 A Dunphy Sue S [9]+ ♠ 753-8856
1105 A Frellich Bradley L [2] ♠ 931-4455
1105 bⓄ Giele Benjamin Z 531-3197
1106 SWINNEY APPLIED LEARNING MAG SCHOOL elmntry scndry sch... 418-6275
1107 A Not Verified
B Kaplan James H Jr & Jodi [7] ♠ 931-2998
1107 aⓄ Smithson Rosemary L 960-6670
1109 Figueroa Jose A [2] ♠ 561-5544

· ZIP CODE 64112 CAR-RT C089
Lopez J [3]..... 756-2236

· ZIP CODE 64112 CAR-RT C018
A Not Verified
B Murphy Stephen A & Linda [5] ♠ 753-5917
1111 Bunting Henry S [9]+ ♠ 561-2114
Bunting Phoebe H.... 561-2114
46 Not Verified
1115 BANGS SALON beauty shop 756-1422
1117 Bailey Joe L [3] ♠
1121 TERBOVICH GEORGE busn svcs..... 753-1458
+HOLLY ST INTERSECTS

· ZIP CODE 64112 CAR-RT C001
1201 B-BAX II used merch stores 531-0067
1207 CLASSIC CREAT SALON DAY SPA LLC misc prsnl svcs..... 561-1616
1214 ANONYMOUS II used merch stores..... 531-6255
Pearce Linda W [9]+ ♠ 531-6255
1215 A STUDIO ONE beauty shops 931-4750
1217 Puett Uel E [9]+ ♠... 531-8092
+MERCIER ST INTERSECTS
1303 Denning Jacqueline M [3]
Fearing Francis M [6] 561-7654
Fearing Max..... 561-7654
1307 Childers Scott H [6] ♠ 753-7617
INDUSTRIAL ARTS svcs alld mtn pict 531-0558
+TERRACE ST INTERSECTS
1414 ACT 2 FOR MEN used merch stores..... 931-4144
Allen Kathryn N..... 753-6536
ALLEN DAVID G INSURANCE AGENCY ins agts'svcs 753-4334
1415-1421 Not Verified (2 Hses)
+LIBERTY ST INTERSECTS
1500Ⓓ Hunsaker Holly..... 931-1868
ⓃSkipp Rich 960-1649
1 Hutchison Kelly L [9]+
3Ⓓ Andruk Dean J
4 Mina Patricia A [9]+
1502Ⓓ Newett C 561-4889
5 Rhodes Charles E [9]+ ♠ 931-0456

W 47TH ST
1507 ACT II womens clothng strs 531-7572
Everhart Gloria J [9]+ ♠
+FAIRMOUNT AVE INTERSECTS
1610Ⓓ Mackaman Charles. 531-3276
Stoner Elizabeth M [6] ♠ 531-4787
+WYOMING ST INTERSECTS
+GENESSEE ST ENDS
+BELL ST INTERSECTS
+STATE LINE RD INTERSECTS
BUSINESSES 149 HOUSEHOLDS 221

E 47TH TER (KANSAS CITY)- FROM 4741 LOCUST ST EAST
+ROCKHILL RD INTERSECTS

· ZIP CODE 64110 CAR-RT C009
600 Kelley Daniel S [3] ♠. 531-2278
604Ⓓ Dyer Julie..... 756-2759
604 Not Verified
ⓃRollins John S
608 Arnold John A [9]+ ♠ 531-2397
Arnold Joann A 531-2397
612 Waller Dale & Janet [9]+ ♠ 931-1736
+HOLMES ST INTERSECTS
+FLORA AVE CONTINUES
+WAYNE AVE INTERSECTS
+WOODLAND AVE INTERSECTS

· ZIP CODE 64130 CAR-RT C001
1802Ⓓ Baker Norma J 361-6086
Baker Abasi S 361-6086
1803-1804 Not Verified (2 Hses)
1810 McGhee Dorian L [7] ♠
McGhee Doranin L
1811 Brown Delores N [9]+ ♠
Brown Angela M
1812 Hickle Austin M & Candelaria [9]+ ♠..... 924-8831
1816 Montes Jose R & De [3]
1819 Himes Devon R & Joscelyn [3] ♠..... 861-8644
1820 Nimrod Billy G & Quita [5] ♠ 923-4161
1821 Anderson Janice M [9]+ ♠ 921-5527
Anderson Theadore A 921-5527
1823 Not Verified
1824 Hall Darryl A [3]..... 923-2225
1827 Jackson Rev Landis H [9]+ ♠ 861-7301
Jackson Norma J..... 861-7301
1828 Not Verified
1832Ⓓ Clay Jeannette 861-0735
Washington Andre L [9]+ ♠ 861-0735
Washington Jeannette C 861-0735
1833 Simpson Nina D [9]+ ♠ 923-5214
1834 Jackson Eddie B [2]
Robertson Shauntae [2]
Robertson Laquanza
1836 McCarty Roger W [9]+ ♠ 923-4968
McCarty Phyllis A.... 923-4968
1844 Johnson Otis M Jr & Cecelia [7] ♠
+EUCLID AVE INTERSECTS
2005 Bell Josetta A [5]
2009 Johnson Jean E [9]+ ♠ 924-1840
Johnson Don P..... 924-1840
+N BROOKLYN AVE INTERSECTS
+BENTON BLVD CONTINUES

· ZIP CODE 64130 CAR-RT C010
3702Ⓓ Bailey Latasha..... 921-7401
ⓂBishop M..... 861-3961
100-101 Not Verified (2 Apts)
102 Johnson Steven D & Earlean [5] ♠ ... 923-7716
200ⓃMosby Renee D
201ⓃPipkin Rickey... 923-0250
202 Not Verified
203 Lindsey Rosena M [3] ♠
203 Lindsey James R
3703Ⓓ Blakely Ethelene 923-8755
ⓂCollins Dwayne K.. 924-5837
ⓂMack Galen 921-2559
Thompson Troy A [3] 921-1113
100 Not Verified
101 Haynes Barbara V [2]
200ⓃSmith Andrew A 861-4377
201ⓃWakefield Waltina 923-3667
203 Not Verified
3704Ⓓ Flanigan Sheen M.. 923-6015
ⓃSmith M 924-1201
ⓃTate Lisa..... 923-0838
100 Oxley James S [3] 924-6619
102 Shelton Vincent A [2] 923-3161
103 Not Verified
200ⓃMillbrooks Ricky 923-9645
201 Holiday Gladys [9]+
3706Ⓓ Phoenix Stacey 861-5637
100 Smith Monisha & Stephanie [2] 924-2590
101 Satterwhite Patricia N [2] ♠
102ⓃWarfield Sophia L
103ⓃGlasco Kenneth 924-0763
200 Knox Stephen L [3]
201-203 Not Verified (3 Apts)
3707Ⓓ Briscoe C 924-6360
ⓃJones Jeffrey 924-7922
ⓃKemp Rachelle 921-7072
ⓃPewitte Shari 921-6510
ⓃVanmaanen Kirk.... 861-3676
100-201 Not Verified (5 Apts)

E 47TH TER (K C)
203 Estell Shelton [3]
203 Estell Sandra D
3708Ⓓ Bowman Carl 923-3547
ⓃJohnson Alicia N... 923-2072
ⓃMcCallop D 861-7994
ⓃRue Eric V 921-7569
100-101 Not Verified (2 Apts)
103ⓃMartin Sheila J 861-0930
200-203 Not Verified (2 Apts)
3710Ⓓ Brown Reginald..... 923-0785
ⓃHernandez Ernesto 921-7090
ⓃJackson James W. 921-3425
ⓃMorgan Billy Jr..... 924-4583
101ⓃHoward Sandra M
201ⓃDunklin Andrea
3711 Chiney Andre [2]..... 923-6379
ⓃRockett Nashina S 921-8760
100-103 Not Verified (4 Apts)
200 Hamidullah Milton F [2]
203 Walker Mary E [2]
3712Ⓓ Smith Napoleon..... 921-3776
ⓃTuggle Pagerine.... 924-6738
102 Johnson Linda D [2]
201 Not Verified
+CLEVELAND AVE INTERSECTS
3800 Dukes Erma D [9]+ ♠
3804ⓃLong Kimberly M
3808ⓃEstes June E
ⓃJohnson Damon L
ⓃLiggins Grady A
3812 Garlington Antwan [2] ♠
Garlington Cortez A
3900 Rideau Dennis D & Stephanie [3]..... 923-0881
3904 Littlejohn Earlean [9]+ ♠ 924-4566
Littlejohn Alexander .. 924-4566
3908 Brown Fred Sr [9]+ ♠
3912 Wesson Sammie [9]+ ♠ 861-2322
3916 Oates Herman S [9]+ ♠ 924-4281
Oates Odessa L..... 924-4281
3920Ⓓ Willis R 923-1828
3924 Parker Charles R [9]+ ♠ 861-4792
Parker Piper N..... 861-4792
3928 Norman John H & Beather [9]+ ♠..... 861-2348
3931 Estis Lee S [9]+ ♠... 923-6672
Estis Lucille 923-6672
3932 Thompson Rosalie C [9]+ ♠
3935 Oliver James A [9]+ ♠ 923-8854
3936 Minner Matilda V [9]+ ♠ 924-6921
3955 Not Verified
+NORTON AVE INTERSECTS
+NORTON CIR BEGINS
+RAILROAD CROSSES

· ZIP CODE 64129 CAR-RT C004
6700 Lauderdale Wilbur A [9]+ ♠ 861-5702
Lauderdale Katharine M 861-5702
6900 Campbell Katherine E [5] ♠
Campbell Leon J
6950 Not Verified
6954 Enfield Richard L [9]+ ♠
Enfield Darlene
6960 Barr Clinton W [9]+ ♠
Barr Christine H
6964 Dino Joseph III [9]+ ♠
6970 Hawkins Thomas A [5] ♠ 924-1220
Hawkins Yolanda L.. 924-1220
+S PARK RD INTERSECTS

· ZIP CODE 64129 CAR-RT C010
7600 Thomas Alonzo Jr [4] ♠
Thomas Quantaline T
+RICHMOND AVE CONTINUES
7601 Craig William D & Angel [4]
McKinney Troy N [9]+ ♠ 921-1150
McKinney Alice M..... 921-1150
7605 Miller Dale L [5] ♠
Miller Almee J
7608 West Donald R & Ella [9]+ ♠
7611 Harter Martie [9]+ ♠ 861-3834
Harter Justin T..... 861-3834
7614 Nelson Bonnie L [5] ♠ 921-0347
7617 Connell Robert L [9]+ ♠
Connell Anita G
7618ⓃTillman Misty ♠..... 861-7343
7623 Beasley Keri A [4]
7624 Taylor Robert A [9]+ 861-5117
Taylor Donald W 861-5117
+PALMER AVE INTERSECTS
7700 Not Verified
7701ⓃScarlett Joyce A..... 861-3913
7705ⓃThomas Kimberly.... 861-8913
7706ⓃBeck Mary E..... 924-7389
7709ⓃChavez Jason 861-5773
7710ⓃPittman Anne..... 861-2520
G Not Verified
7714 Crook Mark P & Dawn [9]+ ♠
7715 Not Verified
7718 Allen Melvin R & Deborah [9]+ ♠
7719 Turner Richard D [9]+ ♠ 921-9139
Turner Brenda J..... 921-9139
7800 Martin Scott A [9]+ ♠ 921-8950
Martin Dawn R..... 921-8950
7804 Merriott Valerie A [9]+ ♠ 924-5491
Merriott Jackie E..... 924-5491
7805 Roland Ida S [6] ♠
7809 Sofia Jack D [9]+ ♠. 923-8077
Sofia Marilyn L..... 923-8077
7812Ⓓ Harget Todd..... 924-2641
Harget Michelle..... 924-2641
7815 Thompson Mary A [3] 861-1587
7816 Montoya Nicholas K [2] ♠
Montoya Mary E
7819 White Marsha A [5].. 921-3942
7900 Morgan Juanita S [9]+ ♠

E 47TH TER
7901 Howell Kenneth L & Cynthia [9]+ ♠..... 861-0820
7904 Blatt Janice S [9]+ ♠ 921-8025
7905 Trautman Jerry R [9]+ ♠ 924-8253
Trautman Theresa L 924-8253
7908 McAnally Michael W [9]+ ♠ 861-7934
McAnally Diana L..... 861-7934
7909 Johnson Thomas L [9]+ ♠ 861-8445
Johnson Nancy C..... 861-8445
7912 Not Verified
7915 Schmidt Mark O [9]+ ♠ 921-0974
7916 Clawson Theodore E [9]+ ♠ 861-2248
Clawson Dolores L.... 861-2248
7919 Morton Donna M [2] ♠
+SYCAMORE AVE INTERSECTS

· ZIP CODE 64129 CAR-RT C004
8300 Not Verified
8301ⓃHenderson Kevin R ♠
8304 Geary Dawn R [9]+ ♠ 921-4022
8305ⓃPieters Rudolph S.. 924-4457
8308 Hinrichs Michael K [9]+ ♠ 923-3739
8309 Maxey Harry E Jr [2] ♠
8400Ⓓ Martin Arthur..... 861-7899
8401 Snow Leonard E [9]+ ♠ 921-6984
Snow Lenora M..... 921-6984
8404 Burgess Kenneth E & Taresa [6] ♠..... 924-0825
8405 Hendricks Henry M & Elaine [9]+ ♠..... 921-2493
8408 Hart Dean [5] ♠
Hart Joanne L
8409 Nelson Gregg S & Vonda [9]+ ♠
+WALLACE AVE INTERSECTS
8500ⓃBrown R 923-4830
Rindorn Carol A [9]+ ♠
8501 Adrian Jack E Sr [9]+ ♠ 924-6011
8502ⓃDanahy D..... 861-4342
8505 McHenry Stanley A & Bessie [9]+ ♠
8507 Delong Mary P [9]+.. 861-4737
Fox Mary P [5]
8508ⓃSims John 861-2241
8511ⓃCartee Marjorie..... 861-1537
8512 Wangler Sherri D [3]
Wangler Nicholas P
8515 White Volney B [9]+ ♠ 921-7942
White Vivian M..... 921-7942
8516 Cartee Gerald E [2]
Waring Mely [2]
+BYRAMS FORD RD CONTINUES
+FARLEY AVE INTERSECTS

· ZIP CODE 64133 CAR-RT C033
11200 Barreto Rosa L [3] ♠ 313-9956
ⓂBerrato Rosa..... 313-9956
11204 Cox Tracy E & Anna [9]+ ♠ 353-1393
11207 McMahon Michael G [7] ♠ 353-5048
McMahon Alan J..... 353-5048
11208Ⓓ Rodriguez Michael D 353-7536
Rodriguez Meleah..... 353-7536
11211 Not Verified
11212ⓃLackey Ainsley ♠. 356-9641
11215 Kerby Mary E [9]+ ♠ 356-0409
11216Ⓓ West Nile B ♠..... 353-7781
11219 Rice Joe L [9]+ ♠.. 353-4926
Rice Deloris M..... 353-4926
11220 Stevenson Warren L [9]+ ♠ 358-1281
Stevenson Ruby J.... 358-1281
11223 Not Verified
11224 Hartman Declaratio [9]+ ♠ 353-4434
11227 Walt Gary L & Linda [9]+ ♠
+CLAREMONT AVE INTERSECTS
11801ⓃStephens Charles W & Anna 353-2560
11802ⓃBelton Denise M ♠
11803 Marble Avery [3] ♠ 358-3105
Marble Nanette L..... 358-3105
11807 Thomas Larry L [7] ♠ 353-4506
11809ⓃMorrissey Margaret L 353-8329
Morrissey Francis W 353-8329
11813ⓃRider Clifford M.... 353-0627
11815 Stinnett Kenneth W [9]+ ♠ 356-3419
11818ⓃBokonich Don A & Alice ♠ 356-0359
11819 Ness Sharan K [3] ♠
11820 Cornell Kenneth E & Merleen [2]..... 358-9070
11821 Anderson Bea [2] ♠ 353-5183
Anderson Rilla B..... 353-5183
11824 Jamison Joy D [2].. 353-1398
11825 Turk George S [2].. 358-2395
Turk Ilean D..... 358-2395
11826ⓃScanlan Jean M
11827 Morgenstern Charles L [2] ♠ 358-5423
11830 Pargen Loren W & Geraldine [5] ♠..... 353-4965
11831-11833 Not Verified (3 Hses)
11900 May Dorothy E [5] ♠ 356-2238
11901 Cox John H [4] ♠.. 358-1997
11902 Not Verified
11903 Collins Judy L [7] ♠
11905ⓃStice Marie ♠..... 353-2806
11907ⓃUnderwood Meryl J & Catherine ♠..... 313-0803
+E 47TH TER S BEGINS
+WOODSIDE AVE INTERSECTS

· ZIP CODE 64133 CAR-RT C032
12003 Knoche Louise H [9]+ ♠ 358-4881
Knoche Berniece L... 358-4881

E 47TH TER
12005 Colbert Steven L [9]+ ♠ 353-0598
Colbert Shirley A..... 353-0598
12007 Trujillo Filemon J [9]+ ♠ 358-5303
Trujillo Marissa D.... 358-5303
12009 Lane Jeanette [9]+ ♠ 356-2359
HOUSEHOLDS 236

E 47TH TER S (INDEPENDENCE)- FROM 4799 WOODSIDE AVE EAST
+E 47TH TER ENDS

· ZIP CODE 64055 CAR-RT C006
12101 Baker Virgil M & Anna [9]+ ♠..... 353-2132
12102 Rushton Doyle [9]+ ♠ 353-4581
Rushton Donna G 353-4581
12103 Not Verified
12105 Acock Richard M [9]+ ♠ 358-6256
Acock Charolette A.. 358-6256
12107ⓃGharst David S Sr ♠
Gharst Jason
12109ⓃO'Brien Leo X..... 353-5196
12109 Not Verified
Obrien Dorothy J
12111ⓃMilazzo Francesco
Milazzo Rosa
12112 Bryan Samuel J [9]+ ♠ 356-2785
Bryan Mary F..... 356-2785
12113 Banta Joyce E [9]+ ♠ 356-6358
12114 Godley Frankie L [9]+ ♠ 358-4483
Godley Barbara A.... 358-4483
12115 Hayton Phillip G [6] ♠ 353-8208
12116 Cureton Marsha J [5] ♠
12117 Odell Michael R [2]+ ♠
12119 Rupp Sandra K [4] ♠
+S FULLER AVE INTERSECTS
+S CRYSLER AVE INTERSECTS
12201 Lueckenotto Sheila E [5] ♠ 737-5128
12202 Eickhoff Greg D [4] ♠ 353-0491
Eickhoff Paula L..... 353-0491
12203 Brownlee Jeffery A [5] ♠ 737-8936
Brownlee Jeremy R.. 737-8936
12204 Donovan Deborah J [5] ♠
12205 Not Verified
12206 Jones John P & Eunice [9]+ ♠..... 353-4346
12207ⓃJohnson Lyndon M ♠ 353-1795
Johnson Karen A..... 353-1795
12208 Boyles Matthew A [4] ♠ 358-9160
Boyles Michelle L..... 358-9160
12209 Foster David E [9]+ ♠ 358-1069
Foster Susan K..... 358-1069
12210 Daugherty James E [9]+ ♠ 358-4643
Daugherty Judith M... 358-4643
12211 Gibson Thomas L [9]+ ♠ 737-2704
12212 R W S SALES homefurnishings..... 356-7707
Sorensen Dorothy J [9]+ ♠ 356-7707
12214 Neilson Steven D [4] ♠
Neilson Bonnie J
+S NORFLEET RD INTERSECTS
12300 Myers Bradley D [5] ♠ 356-3040
Myers Diana L..... 356-3040
12301ⓃSimms Ed..... 358-0990
12302 Not Verified
12303 Pugh David A [2] ♠ 353-2053
Pugh Larisa A..... 353-2053
12304 Voyles Ray & Clara [9]+ ♠ 353-3493
12305 Autry James E & Lisa [2] ♠ 313-0143
12306 Watley Shirley M [2]+ ♠
Watley James T
12307 Kaske Judith M [2] ♠ 353-8946
12308ⓃBryan Kenneth E & Shirley ♠..... 353-4165
12309ⓃSmith Joseph W ♠
Smith Mary
12310 Farmer Gregory A & Janet [9]+ ♠..... 353-7923
12311 CHARLES HANCOCK REMODELING nonresid constr 353-4135
Ishmael Larry P & Susan [4] ♠ 313-7137
BUSINESSES 2 HOUSEHOLDS 40

E 47TH TERRACE CT (BLUE SPRINGS)-FROM 4701 MAYVIEW CT

· ZIP CODE 64015 CAR-RT R003
19710 Pollen Mark J [3]+.. 795-7515
19711 L-129ⓃRodgers Angela K
19712 Hollaman Karen S [5] 795-8711
19713 Simmons Jack D [3]+ ♠
129ⓃSpecker Carol A
197140ⓃLevis Maxwell..... 795-8563
19800 Wheaton Carmen L [2]
C Not Verified
19801ⓃKendrick C M..... 795-8952
19802ⓃMahoney Dale..... 795-0491
19803ⓃDavis Heather L.... 795-6253
126ⓃDuarte Tremaine B
126 Duarte Toni L
19804ⓃCarroll Lynda L
ⓃThompson Delores 795-1578
135 Not Verified
19805 Russell Irving E [9]+ ♠ 795-7754

TP	Adjoining	Source
-	✓	R. L. Polk Co. Publishers

E 48TH ST 2000

E 47TH TERRACE CT (B S)

Russell Ruby L..... 795-7754
Wilds Johnie R [5]
124 Not Verified
19807 Steele Pamela K [2]
124 Sammons Karen S [4]
19809 Oliver Frederick [2]. 795-5366
19811 Dark Johnny E & Cindy [3]+ ♠..... 795-7782
19813 Alexander Julie A [7] ♠ 795-9513
19901 Coffey Eric J & Elizabeth [4] 795-7583
19903Ⓝ Johnson Charlotte L
Johnson Andrea L
19905 Not Verified
19907 Rose Joyce A [3]+ ♠ 795-7416
Rose Bradley A..... 795-7416
19910 Not Verified
19911Ⓝ Tracy Michael S... 795-8268
19912 Yelton Abby J [3] ♠ 795-7947
19913Ⓝ Shanahan Bill E ♠
Shanahan Carol
19915 Cocklin Catherine L [6] ♠
Cocklin Richard D Jr
+HOLKE ST INTERSECTS
HOUSEHOLDS 32

E 48TH CT S (INDEPENDENCE)-FROM 4811 S SHRANK DR EAST

· ZIP CODE 64055 CAR-RT C038

17200 Bingham Brian L [4] 478-6747
Ⓝ Miller Shannon M
17202 Donahue Caterina M [2]
Ⓝ M-McKee Bryan D 350-8408
M-McKee Holly M..... 350-8408
Ⓝ McKee Bryan D & Holly 350-8408
17204Ⓝ Frazee Harold R... 478-8057
17205 Lewis Helen J [3]+. 478-3798
17206 Willey James D [4] ♠
Willey Jeanne D
17207 Craig Margaret A [5] 373-7896
Craig Stephanie A.... 373-7896
17208-17209 Not Verified (2 Hses)
17210 Demonbrun Jeffrey L [2] 478-1020
Demonbrun Gerald W 478-1020
17211 Digaetano Angelo C [3] ♠ 478-6936
Digaetano Kathy L.... 478-6936
17212Ⓝ Sexton Kevin D
Sexton Angelika R
17213 Bennett Jack M [3]+ 478-0298
Bennett Ramah I..... 478-0298
17214 Tadeo Roy & Lisa [4]
17215 Jones Ellen M [3]+ ♠ 373-0945
17300 Barrett Robert Jr & Loretta [4]
17301 Jeffries John D & Brenda [6] 373-3194
17302 Neidl Kimberly M [4]
Neidl Dewayne
17303Ⓝ Burke J..... 478-2332
17304 Deluca Daniel D [7] 373-5628
17305Ⓝ Gray Michelle L
Ⓝ Miller Jerry
17306Ⓝ Mesa Susan J..... 478-8431
Ⓝ Salazar Gilbert
Salazar Michelle A
17307 Lewis Jennifer E [2] 350-1561
17308 Not Verified
17309Ⓝ Dearing Joseph H 350-8678
Dearing Lana S..... 350-8678
Ⓝ Palma Maria V
Palma Vilma P
17310 Not Verified
17311 Landon Nellie [3]+ ♠
17312Ⓝ Habben Sherry J
17314 Hartness Terrill W [4]
Ⓝ Johnson Joane Z.. 350-8332
HOUSEHOLDS 35

E 48TH ST (BLUE SPRINGS)-FROM 4701 GLENVIEW ST EAST

· ZIP CODE 64015 CAR-RT R003

19700 Stewart Robert M [3]+ ♠ 795-1609
Stewart Wendell G... 795-1609
19701Ⓝ Nelson Mary S..... 795-1941
19702 Monasmith Willford T [3]+ ♠ 795-1507
Monasmith Ruth B.... 795-1507
19703 Young Glenn A [3]+ ♠
322 Not Verified
19704Ⓝ Roberts G J..... 795-0879
19705Ⓝ Revelle Ronald W Jr
321 Not Verified
19706 Wright Harry O [3]+ ♠ 795-1059
19707 Jeffries Jean M [3]+ ♠ 795-0118
Jeffries Gary..... 795-0118
19708 Tucker Dorothy A [3]+ ♠ 795-7281
19709 Seufert Agness M [3]+ ♠ 478-0614
Seufert Edward G.... 478-0614
19710Ⓝ Hinton Charles A & Mary 795-7216
Ⓝ Sinden Herbert J
Sinden Peggy J
19711 Clark George L [5]. 795-9137
Clark Barbara J..... 795-9137
19712 Homfeld Walter E [5] ♠ 795-0231
WALTER TRANSPORT lcl trckg 795-5662
19800 Not Verified
19801Ⓝ Mapel Alan D
19802Ⓝ Wooten A..... 795-7298
19804 Martin Orville L [3]+ ♠ 795-0064

E 48TH ST (B S)

Martin Winifred L..... 795-0064
19805Ⓝ Mathis Carol J..... 795-8127
19807Ⓝ Fales Patrick M
Fales Carrie J
19809 Smidt William & Arvilla [5] 795-7551
19810 Sullivan Michael J [3]+ ♠
Sullivan Cynthia E
19811 Fuller William L [3]+ ♠ 795-8183
19812 Not Verified
19813 Onwiler David M Jr [3] ♠
19900Ⓝ Stearns W L..... 795-8999
19901 Lauderback Frederick E [3]+
19902 Hayes Donald D Jr [6]
Hayes Charlene S
19903 309 Hamilton Naomi L [3]+ ♠
19904 Not Verified
19905 Huddle Nancy M [3]+ 795-8545
19906 390Ⓝ Carter John L & Michelle..... 795-7861
19907 307 Rigsby Wallace L [2] ♠ 795-5765
307 Rigsby Paula D. 795-5765
19909 Eckart Richard & Wanda [3]+
19910 Not Verified
19911 Bournonville Mark L [3] ♠ 795-1801
19912 394Ⓝ Jackson Marcella L ♠
394 Jackson Lyle E
19913 Jenkins Duane V [3] ♠ 795-8225
Jenkins Carolyn L.... 795-8225
19915 Lynch Barbara A [3]+ ♠ 795-1158
+MAYVIEW TERRACE CT BEGINS
20001 Cushman Sammy M [3]+ ♠ 795-0187
Cushman Monte V... 795-0187
20003 Johnsten Judy A [3]+ ♠ 795-0685
Johnsten Robert E... 795-0685
20005 Chappell Lyle H [3] ♠ 795-6062
Chappell Barbara S.. 795-6062
20007 Not Verified
+HOLKE ST BEGINS
+NW VALLEY VIEW RD INTERSECTS
BUSINESSES 1 HOUSEHOLDS 45

E 48TH ST (KANSAS CITY)-FROM 4799 GRAND AVE EAST

+MCGEE ST INTERSECTS
+OAK ST INTERSECTS
+ROCKHILL RD INTERSECTS
+HOLMES ST INTERSECTS
+CHARLOTTE ST INTERSECTS
+CAMPBELL ST INTERSECTS
+HARRISON ST INTERSECTS
+TROOST AVE INTERSECTS
+FOREST AVE INTERSECTS

· ZIP CODE 64110 CAR-RT C010

1200Ⓝ Hahn Marjorie J ♠
+TRACY AVE INTERSECTS

· ZIP CODE 64130 CAR-RT C001

1801-1805 Not Verified (3 Hses)
1806Ⓝ Ross Rory L
1807 9B-3 Not Verified (2 Apts)
1809-1811 Not Verified (3 Hses)
1814 Johnson William C & Dorothy [3]+ ♠
1821 Briscoe Gloria D [3]+ ♠
1824 Wimley Barbara A [3] 923-7622
Wimley Yolanda D.... 923-7622
1826 Jimmerson Donna J [7]
1827 Madden Williams B [3]+ ♠
Madden Carrie
1828 Williams Ronnie L & Vanessa [3]+ ♠
1829 Little Walter M & Sheryl [3]+ ♠..... 923-8955
1830 Alexander Latanya R [2]
1831 Not Verified
1834 McGhee Rev Lewis A [3]+ ♠ 924-5024
McGhee Oradene..... 924-5024
1836 Reynolds-Weatherby Margo A [3]
Reynolds-Weatherby John W
1844 Precipns Rev John L [3]+ ♠ 924-6581
Precipns Ludora V... 924-6581
1845 1845Ⓝ Ambroise Marie L ♠
+EUCLID AVE INTERSECTS
2000Ⓝ Gathright Marcia L ♠
2008 Not Verified
2011 Duchardt John J & Deborah [3]+ ♠..... 921-7023
2016Ⓝ Johnson Gena L..... 921-6470
2020 Birmingham John C & Mary [3]+ ♠
2026 Ford Kenneth R [3]+ ♠
Ford Katherine L
2029-2045 Not Verified (2 Hses)
+N BROOKLYN AVE INTERSECTS
+KENSINGTON AVE CONTINUES

· ZIP CODE 64130 CAR-RT C030

4502 Peeler Larry L & Carolyn [3]+ ♠
4510 Williams Tyrone A [3]+ ♠
Williams Preci A
4516Ⓝ Pittman Grant E & Angelae ♠..... 923-8684
+ELMWOOD AVE INTERSECTS

· ZIP CODE 64129 CAR-RT C010

7600 Duque Ricardo D [3]+ ♠
Duque Maria D
7601 Fowler Rebecca J [3] ♠
Fowler Bruce K
7605 Cartwright W C [3]+ ♠ 924-6187
Cartwright Ray R..... 924-6187
7606 Jenkins Kay [3]+ ♠
Jenkins Anthony D
7609 Derks Theodore F [3]+ ♠
7610 Not Verified
7614 Mackey Richard L & Dorothy [3]+ ♠

E 48TH ST (K C)

7615 Estrada Maria [3]+ ♠ 861-0824
Estrada Joe F..... 861-0824
+PALMER AVE INTERSECTS
7704 Ramsey Wilbert E [3]+ ♠
Ramsey Hazel C
7705 Meade Frank A [3]+
Meade Thomas R
7710 Shores Barry E [7]... 921-6018
Shores Stacey..... 921-6018
7711 Simpson Dorsey L Jr [6]
Simpson Barbara A
7716 Zimmerman Robert C [3]+ ♠
Zimmerman Mary A
7717 Givens James H [3]+ ♠
Givens Dorothy J
7800Ⓝ Bresheers Anne M ♠
7801 Arms Clifton [3] ♠.... 921-4196
7806 French Walter R [3]+ ♠
French Patricia A
7807 Sanders George W [3]+ ♠ 861-6603
Sanders Joann A..... 861-6603
7812 Wilson Robert C [3]+ ♠ 924-1678
Wilson Gloria A..... 924-1678
7813 Ealy John L [2]..... 861-7709
Ealy Brian M..... 861-7709
7813-7816 Not Verified (2 Hses)
7817 Cretel Roland H [3]+ ♠ 921-7278
Cretel Sean..... 921-7278
7900 McDonald Charles W [3]+ ♠ 861-3224
7901 Sanders Charles R [3]+ ♠ 921-3236
Sanders Dorothy J... 921-3236
7906 Rockers John J [3]+ ♠ 921-4486
Rockers Lorene E.... 921-4486
7907 Patton Deborah M [3] ♠ 923-1911
7911Ⓝ Ash Melody L
Ⓝ Chailland Jason W
7912 Weber Richard L [3]+ ♠ 923-7120
7915 Silvey Mark S & Kendra [3]+ ♠..... 921-6824
7916Ⓝ Yazel William P..... 924-4381
7919Ⓝ Walker Debra E ♠
Walker Carl A
7920 Cain Mark D [3]+ ♠. 924-6784
Cain Pamela J..... 924-6784
+SYCAMORE AVE INTERSECTS

· ZIP CODE 64133 CAR-RT C016

9507Ⓝ Weidner Larry..... 262-9304
9509Ⓝ Foster Dean J..... 432-0889
9600Ⓝ Dean William D..... 722-2322
9601Ⓝ Fairchild David A Jr 362-7996
9603 Sinn Elizabeth A [5] ♠ 831-9485
Sinn Janelle..... 831-9485
9604Ⓝ Shackelford James D
Shackelford Kim
SHACKELFORD'S HEATING & plumb-htg-a'c ... 356-7422
9608Ⓝ Long W L III..... 262-5146
+EVANSTON AVE INTERSECTS
+OVERTON AVE INTERSECTS
+STERLING AVE CONTINUES

· ZIP CODE 64133 CAR-RT C033

11201 Not Verified
11205 Sadler Gean [7] ♠.. 356-9908
Sadler Emma G..... 356-9908
11206 Goodman Brenda J [3]+ ♠
Goodman George E
11209-11210 Not Verified (2 Hses)
11214 Neece Patricia A [5] ♠ 353-0139
11215 Matney Sue A [3]+ ♠ 790-3494
Matney Rhonda E.... 790-3494
11218Ⓝ Cox Michael O
11219Ⓝ Nelson William W ♠
Nelson Cynthia L
11222 Aldridge Davis [3]+ ♠ 737-1202
Aldridge Lemora..... 737-1202
11223-11226 Not Verified (2 Hses)
11227 Smedley Gary W [3]+ ♠ 737-3472
Smedley Charlene D 737-3472
SMEDLEY ENTERPRISE trckg 737-3472
11231 Malewski Jennifer J [3]+ ♠ 313-2384
Malewski Charles W. 313-2384
+VERMONT AVE INTERSECTS
+CLAREMONT AVE ENDS
+NORWOOD AVE CONTINUES
11701 Lambros George S [3]+ ♠
Lambros Pamela M
11703 Allen Terry V & Wanda [3]+ ♠..... 358-2966
11706 Harvey Clyde M [4] ♠ 358-1068
Harvey Sheryl D..... 358-1068
11707 Anderson Glenda [3] ♠
Anderson Alicia J
11714 Chatfield Daisy L [3]+ ♠ 358-8343
11800Ⓝ Luppens Mary E ♠
11801 Winbicler Mary F [3]+ ♠
Winbicler Glenn P
11804 Borgman Edwin R & Arlene [3]+ ♠
11805 Howe Juanita B [3]+ ♠ 358-4070
11808 Bray Eunice C [3]+ ♠ 353-5682
11809 Carmack Murilee M [3]+ ♠
11812 Taylor Evelyn E [3]+ ♠ 356-3327
+MOATS DR INTERSECTS

· ZIP CODE 64133 CAR-RT C032

12001 Hill Victor A [3]+ ♠
Hill Bettye C
12002 Buchholtz Howard J [3]+ ♠ 356-2813
12003 Yocum Nina M [3]+ ♠
12004 Shelton Louvesta A [3]+ ♠ 356-4859

E 48TH ST

Shelton Douglas E... 356-4859
12005 Kranz Gregory W [3]+ ♠ 356-3808
Kranz Mary E..... 356-3808
12006 Brown Clyde H [3]+ ♠ 353-0278
Brown Frances Y..... 353-0278
12008 Crump John H [3] ♠ 737-1103

· ZIP CODE 64136 CAR-RT R003

14807 Cotterman Daniel B [5] ♠ 478-8359
Cotterman Cindy A... 478-8359
14808 Davis Robert S [4] ♠
Davis Steven R
14811 Nichols Carolanne J [3] ♠ 350-1608
14812 Paul Richard E [2] ♠
Paul Jackie S
14815 Lombardo Marc A [4] ♠
Lombardo Maria A
14816Ⓝ Bryant Colette C ♠
Bryant John
14819 Ohmes Michelle S [3]+ ♠ 350-2487
14820 Dunn Mary F [4]
Vasalinda Kevin M [3] ♠ 373-5500
14824Ⓝ Bartshe Jon M ♠
Bartshe Claudia A
14902 Dady William R [5] ♠ 478-0464
Dady Terri L..... 478-0464
15200 Eller Leroy J [3]+ ♠
Eller Joanne M
15201 Sirna Anthony F Jr [7] ♠ 478-6443
Sirna Julie A..... 478-6443
15204 Billups Michelle L [4] ♠
Billups Christopher L
15205 Hill Cheryl E [3]+ ♠ 373-0783
15208 Atherton James E [3]+ ♠ 373-8910
Atherton Carol D..... 373-8910
15209 Lomax Donna [5]
15212 Bogue Sandra G [3]+ ♠
15215 Cullum Catherine L [7] ♠ 478-9550
15218Ⓝ Cuellar Elva..... 350-1689
Cuellar Ruben..... 350-1689
15219 Jennings Michael E [3] ♠ 350-3044
15300 Thiele Kimberly E [2]
15301 Easterwood David B & Toni [3]+ ♠
15304 Luther Michael D [3]+ ♠
Luther Candice S
15305 Rathbun Annette [3]+ ♠ 373-1547
15308 Hammonds Edward Jr [3]+ ♠
Hammonds Doris J
15309 Miller Elizabeth A [5] ♠
Miller John H
15312Ⓝ Buell Mark D ♠.... 350-8415
Buell Caprice D..... 350-8415
15315 Frazier Ronald D & Katherine [3]+ ♠
15319 Not Verified
+PHELPS RD INTERSECTS
BUSINESSES 2 HOUSEHOLDS 138

E 48TH ST S (INDEPENDENCE)-FROM 4691 BLUE RIDGE BLVD EAST

· ZIP CODE 64055 CAR-RT C006

12007 Carroll William D [4] ♠
Carroll Janice I
12009 Tooker Kelli J [5] ♠
+WOODSIDE AVE INTERSECTS
12212Ⓝ Wallace Casey M ♠ 356-0962
12213 Gooch Billy [3]+ ♠
Gooch Jean D
12214 Vigliaturo Anthony F [3]+ ♠ 358-4144
Vigliaturo Robert H... 358-4144
12300 Starbuck Steven D [5] ♠
12301Ⓝ Croisant B J..... 353-5922
12302 Woodman John I [3]+ ♠ 358-4491
Woodman Alma B.... 358-4491
12303 Solito Salvatore [3]+ ♠ 358-0237
Solito Mary J..... 358-0237
12304 Culver Kathryn F [3]+ ♠
Culver Frances K
12305 Zeigler Harold W [3]+ ♠ 358-5706
12306 Trabon William S [3]+ ♠ 356-5254
Trabon Betty J..... 356-5254
12307Ⓝ Weickert Jack W ♠
Weickert Michelle L
12308 Ojeja Nancy L [3]+ ♠ 358-5170
12309 Gardner Kenneth E [3]+ ♠ 358-6949
Gardner Marva D.... 358-6949
12310 Aguilera Mary M [3]+ ♠ 737-3151
Aguilera Bernabe R.. 737-3151
12311 Shortino Marguerite J [3]+ ♠ 358-0216
Shortino Angela M... 358-0216
+S NORFLEET RD INTERSECTS
HOUSEHOLDS 17

NW 48TH ST (BLUE SPRINGS)-FROM 4799 NW VALLEY VIEW RD NORTH

· ZIP CODE 64015 CAR-RT C025

1400 Velasquez Stephen M [3]+ ♠ 229-3848
1401Ⓝ Steinhauser Dan E. 220-0868
1404 Thomas Madlynne A [3]+ ♠ 228-9720
Thomas Neal C..... 228-9720

NW 48TH ST (B S)

1405 Cary Rickey R [3]+ ♠ 229-2922
Cary Lesa A..... 229-2922
1408 Oakes Linda M [3] ♠
1409 Swan Ernest D & Debra [3] ♠ 224-2873
1412 Kratz Terry B [3]+ ♠ 229-5351
Kratz Judy J..... 229-5351
1413 Cook Christopher T [3] ♠
Cook Dawn E
1416 Golick William L [3]+ ♠ 228-5064
Golick Mary J..... 228-5064
1417 Jackson Theresa L [7] ♠ 228-4805
Jackson Teri..... 228-4805
1500 King David V [3]+ ♠ 224-8472
King Wanda L..... 224-8472
1501 McMillen James R [3]+ ♠ 228-3629
McMillen Jane M..... 228-3629
1504 Elliott Gary W [3] ♠. 224-2127
1505 Moritz James G [3]+ ♠ 224-2085
Moritz Annette J..... 224-2085
1508 McDanel Allen J & Romona [3]+ ♠..... 228-3284
HOUSEHOLDS 15

W 48TH ST (KANSAS CITY)-FROM 4809 MAIN ST WEST

+J C NICHOLS PKWY ENDS

· ZIP CODE 64112 CAR-RT C071

1210Ⓝ Baldi Nickolas A & Beatrice 753-0914
Ⓝ Barnes Charles W III & Velma 931-7776
Ⓝ Barry-McCants L... 931-2123
Ⓝ Beeman William..... 756-1279
Ⓝ Berry Robert..... 756-1208
Ⓝ Bliss Malcolm..... 753-2078
Ⓝ Block Allan M..... 561-1560
Ⓝ Boppart William..... 531-0431
Ⓝ Boulware G W..... 931-2238
Ⓝ Brams Leon N & Harriett 753-2164
Ⓝ Brasfield S M..... 931-2636
Ⓝ Brennan John S.... 931-1205
Ⓝ Brown Richard L... 756-2226
Ⓝ Brown S L..... 756-2366
Ⓝ Buzick I..... 931-2549
Ⓝ Charno George H Jr & Jacqueline 561-8404
Ⓝ Cohen R S..... 531-0488
Ⓝ Dewees Paul..... 531-7075
Ⓝ Dodson Bruce..... 931-3755
Ⓝ Engh Keith J..... 531-3539
Ⓝ Fitch Howard H & Cecilia 531-8806
Ⓝ Fox Louis A..... 931-8308
Ⓝ Frigon Scott & Megan 756-2079
Ⓝ George P A..... 531-4459
Ⓝ Glazer Stanford P. 753-1450
Ⓝ Gordon Louis..... 753-3077
Ⓝ Grant Chris..... 531-3396
Ⓝ Grimes C..... 561-2227
Ⓝ Haddock John N Jr & Verna 531-3427
Ⓝ Henney Jane..... 531-6554
Ⓝ Hooker Janice L.... 561-1560
Hoskins Joseph A [5] 531-3151
Hoskins Mary E..... 531-3151
J C NICHOLS HIGHWOODS PRPTS CO apmnt bldg oprtrs 931-3413
Ⓝ Johnson Fred..... 531-8579
Ⓝ Klein Elvin B..... 756-0791
Ⓝ Margolin Harold..... 931-6834
Ⓝ Matteson George C 960-0852
Ⓝ McDaniel Kevin..... 960-0572
Ⓝ Metzler Elizabeth L 753-6662
Ⓝ Metzler Kathryn M 531-0144
Ⓝ Mulhern M..... 756-2491
Ⓝ Nichols J C..... 531-7617
Ⓝ Olofson Christopher E 531-3589
Ⓝ Osborne Thomas... 931-0247
Ⓝ Pickner M E..... 931-9346
POSEY RONALD ANTHONY AIA ASSOC architectural svcs 561-5611
Ⓝ Price E L..... 561-5083
Ⓝ Reitzes Jack..... 753-8437
Ⓝ Rogers John W..... 531-5776
Ⓝ Scott Art..... 531-0439
Ⓝ Scott Jane..... 531-2236
Ⓝ Shangler Charles & Kathryn 531-4456
Ⓝ Simon Robert A & Beth 753-5058
Ⓝ Smith J R..... 561-3551
SOUL GRAVE apmnt bldg oprtrs 931-3007
Ⓝ Stirton Robert C.... 561-4488
Ⓝ Taylor Alissa A..... 931-0395
Ⓝ Tierney Gavin..... 931-4810
Ⓝ Trammell Jeroldene 531-3845
Ⓝ Vandergrift James B 931-4468
Ⓝ Vanparys Michael.. 756-1279
Ⓝ Weaver George W & Elise 931-2680
Ⓝ White Donald A..... 753-5436
Ⓝ White J P..... 561-4691
Ⓝ Wolf Holland G M. 931-4681
102-105 Not Verified (3 Apts)
1070Ⓝ Hageman Anita P ♠

TP	Adjoining	Source
-	✓	R. L. Polk Co. Publishers

OZARK RD 2000

SW OXFORD PL (L S)
134 Not Verified
135Ⓝ Borden Charles B
Borden Renae S
136 Hudson Geri A [3] ♠
Hudson Christopher N
137Ⓝ Stroot Nate 246-0676
138Ⓝ Hernandez Randy J . 554-7275
139 Emms Charles E [2]... 554-0197
Emms Elizabeth K.... 554-0197
140 Not Verified
141Ⓝ Clifford Rodney A & Angela
142Ⓝ Brunsvold Paul
Ⓝ Cartwright Russell B
..... 525-0893
Ⓝ Hobbs Jennifer M
143 Lorenzo Melissa K [4]
Meier Christopher V & Melissa
[3] 246-5828
144 Richardson Erin S [2]
145 Not Verified
146Ⓝ Ford Johnny G 554-7825
Ford Rebecca K..... 554-7825
147 Lawrence James A [2] 524-8239
Lawrence Laurie M .. 524-8239
148Ⓝ Williams Dian 554-2225
149 Whalon Charles A & Lesma [5]
..... 525-4390
150Ⓝ Dunn Henry M
Dunn Melissa A
151 Ferguson Orine B [7]. 525-5871
Ⓝ Heard Thelma L
152Ⓝ McSpadden Mike 554-1566
153 Castle Jennifer M [2]
154 Weller Helen L [2]..... 525-5916
155 Hogan Mark A [2] ♠
Hogan Brenda S
BUSINESSES 1 HOUSEHOLDS 67

NE OZARK DR (LEES SUMMIT)-FROM 1565 NE WALL ST NORTHEAST
· **ZIP CODE 64086 CAR-RT C028**
1525 Brown Glenn M Jr & Tracy
[9]+ ♠..... 525-4992
1537 Bratton Jeanette E [9]+ ♠
..... 524-2613
1601 Atzmiller Thomas E [9]+ ♠
Atzmiller Dolores
1607 Cornish Ronald D [9]+ ♠
..... 524-2610
Cornish Mary J..... 524-2610
1610Ⓝ Rioux Alan H 246-4986
Rioux Eve M..... 246-4986
1615 Cooper Jonathan P [3] ♠
..... 246-6765
1619 Reis Robert P [6] ♠. 524-6623
Reis Nancy N 524-6623
1623 Idoux John R III & Camille [7]
♠..... 246-0712
1631 Clark Delbert E & Judy [9]+ ♠
..... 525-6122
1635 Cassidy John F [9]+ ♠
..... 525-5090
1639 Holt Alvin J & Geraldine [9]+
♠..... 525-0452
JH SUPPLY CO comptr
softwre str 524-0208
1643 Not Verified
1647 Warren James A Jr & Brenda
[9]+ ♠
1650 Thompson Tina M [9]+ ♠
..... 524-8194
Thompson Frederick L
..... 524-8194
1651 Not Verified
+NE TODD GEORGE RD ENDS
1701 McKee David E [9]+ ♠
..... 524-6408
McKee Joyce M..... 524-6408
1710 Johnson Donald G [7] ♠
Johnson Karen K
JOHNSON GAS FURNACE &
AIR CONDITIONING
plumb-htg-a'c ... 358-8338
BUSINESSES 2 HOUSEHOLDS 17

OZARK RD (KANSAS CITY)-FROM 7249 SNI A BAR RD NORTH
· **ZIP CODE 64129 CAR-RT C010**
7330 Thoms Donald E & Marjorie
[9]+ ♠..... 861-0255
+EASTERN AVE INTERSECTS
7400 EASTWOOD HILLS
COMMUNITY ASSOCIATION
civic social assns..... 921-4616
7417 Witcher Judy E [6] ♠
Witcher John D
7501Ⓝ Galbraith Jeri 861-8520
7505 Gautraux Stacey M [2] ♠
7509 Not Verified
7511 Ballinger James F [9]+ ♠
Ballinger Linda C
+RICHMOND AVE BEGINS
7600 FERGUSON NANCY gift shop
..... 923-8332
MINUTEMAN CLUB commrcl
prtng lith 924-9215
PUBLIC SAFETY DEPT OF
MISSOURI ARMY
NATIONAL GUARD natl
security 889-3225
7605 Gulledge Essie M [9]+ ♠
..... 923-7831
Gulledge Bradley W. 923-7831
7611 Thornton Vernon & Linda [9]+
♠
7621 Andonie Charles A [2] ♠
..... 924-3484
Andonie Christina M. 924-3484
Raepke Christina M [2]
Raepke Mike
7627 Not Verified
7633 Marin Vicente & Jacqueline [4]
♠
7639 Recob Darrell E Jr & Janet [6]
♠..... 861-8236
+PALMER AVE INTERSECTS
7701 Ott Joni D [9]+ ♠..... 861-7243

OZARK RD (K C)
7707Ⓝ Jones Kenneth K
7711 York James M [4] ♠
York Eva L
7715 Hale Donald R & Donna [9]+
♠
7719 Herrington James W & Hazel
[9]+ ♠..... 923-5979
7801 Brand Donald W [9]+ ♠
..... 923-6853
Brand Betty R..... 923-6853
7805 Riley Robert A [9]+ ♠
..... 861-8409
Riley Rita A 861-8409
7819 Sanders Clarence E Jr &
Carolyn [9]+ ♠..... 923-0782
7901 McGee Wanda G [4] ♠
McGee Era F
7905Ⓝ Gates Cheryl R
Gates Gregory G
7909 Wasson Dale L & Letha [9]+
♠..... 923-2051
7915 Lading Donald E [9]+ ♠
..... 923-8770
Lading Lula B..... 923-8770
7919 Stoddard Roger W [9]+ ♠
..... 924-1971
+SYCAMORE AVE BEGINS
+SKILES AVE BEGINS
+E 47TH ST INTERSECTS
+RAYTOWN RD INTERSECTS
BUSINESSES 4 HOUSEHOLDS 26

P ST (LAKE LOTAWANA)-
· **ZIP CODE 64086 CAR-RT R004**
1 Ries David A [9]+ ♠..... 578-5785
Ries Lois M..... 578-5785
2 Carlson Richard [3]..... 774-2535
4Ⓝ McGrew Timothy K ♠.. 578-4044
McGrew Donna R..... 578-4044
R4 Boyd Eva C [9]+ ♠
..... 578-4416
R4 Boyd Lou 578-4416
6 Not Verified
8 Bowen Carl J [6] ♠..... 578-4540
Bowen Frances..... 578-4540
9 Herrin Dorman [3]..... 774-2256
10 Not Verified
11 Bonner Charles A [9]+ ♠
..... 578-4629
Bonner Roberta J..... 578-4629
13Ⓝ Nichols Michael..... 578-4728
15Ⓝ Allen B F..... 578-4919
Ⓝ Ellsworth James J
Ⓝ Wine Marilyn A 578-5459
19Ⓝ Zey Diane..... 578-4812
21 Not Verified
23 Miller Gary L [9]+ ♠ 578-4221
Miller Linda S 578-4221
24 Westman Charles D [5] 774-3618
Westman Donna R... 774-3618
25Ⓝ Guynes Angela..... 774-3366
Ⓝ Guynes Edward..... 578-5914
26 Not Verified
27 Patterson Craig W [2]
95 Riggs Charles E [9]+ ♠
..... 774-2127
97Ⓝ Nangle Lucy 774-3463
98Ⓝ Jones Calvin H..... 578-4635
99 Coleman Gerald W [9]+ ♠
..... 578-4319
100 Not Verified
103 Henningsen Dane [3].. 578-5377
104 Allman Arvel D [8] ♠
111Ⓝ George Tony..... 578-5847
Ⓝ Housel Cynthia R.. 578-4611
Ⓝ Snow Jerry W
112 Not Verified
113Ⓝ Castellano Tony 578-4914
116 Bossow Leroy P & Ramona
[9]+ ♠..... 578-4557
118Ⓝ Goldberg Stacy A ♠
Goldberg Richard B
119 Not Verified
HOUSEHOLDS 36

E PACIFIC AVE (INDEPENDENCE)-FROM 521 S MAIN ST EAST
· **ZIP CODE 64050 CAR-RT C004**
114 Fulton Robert V [9]+ ♠
Fulton Vicki L
118 Wall Thomas L & Shirley [9]+
♠..... 254-7427
120 Schooling Richard A [9]+ ♠
..... 252-3495
Schooling Karen K... 252-3495
126 Cooper Jackson R [2] ♠
Cooper Kathy A
1-3 Not Verified (2 Apts)
130 Barker Laura E [3] ♠
137Ⓝ Crofutt James K ♠.. 461-3313
Crofutt Laura..... 461-3313
Hayton Laura E [3]
143 Not Verified
+S NOLAND RD INTERSECTS
234 Hart Jose A Jr [4] ♠
238Ⓝ Anderson Clyde R & Gertrude
..... 254-9045
+S HIGH ST ENDS
304 Terry Warren L [9]+ ♠
..... 461-0928
Terry Tammy L..... 461-0928
306 Yazel Mark R [9]+ ♠. 461-4781
Yazel Renee L..... 461-4781
310 Dougan Dorothy P [9]+ ♠
..... 461-0744
Dougan Jason P..... 461-0744
314Ⓝ Webb Michael 461-9051
316Ⓝ Sloan Archie V ♠
Sloan Dorothy A
320 JEHOVAHS WITNESSES
religious orgs 836-1311
416 Quirarte Debra L [3]... 252-1984
Quirarte Robert J 252-1984
Ⓝ Van Nguyen Hoa .. 461-4091
A Nguyen Hoang M [3]
..... 461-4091
A Nguyen Chi T..... 461-4091
B Shelton Debra L [5]
416 a Not Verified

E PACIFIC AVE (I)
417Ⓝ Hutson A D..... 461-0630
420Ⓝ Schemmel B..... 252-1357
A-B Not Verified (2 Apts)
+S HOCKER ST INTERSECTS
505 Byerly Oscar & Lottie [9]+ ♠
..... 461-6530
507 Rupert Robert E [9]+ ♠
Rupert Sandra J
509 Not Verified
510 Chavis James M & Sharon [2]
♠
511-513 Not Verified (2 Hses)
513 Oldberg Dawn M
514 Fitzsimmons James M [9]+ ♠
..... 254-0973
Fitzsimmons Alita G.. 254-0973
517 Thompson Tracey A [2]
..... 836-0485
518 Goff Clarissa M [9]+ ♠
519Ⓝ Cline Joe D & Virginia
..... 833-5258
522 Craig Samuel J [4] ♠ 833-3509
Craig Ellen B..... 833-3509
523Ⓝ Scott Gregory J
Scott Tina A
+S LESLIE ST INTERSECTS
631 Griffith Bobby [5] ♠.... 254-6566
Griffith Theresa F..... 254-6566
632 Hiegart Diane R [6]
633 Goff Betty L [9]+ ♠.... 461-4471
Goff Oather..... 461-4471
+POPE AVE BEGINS
701 Lurten Buddy V [9]+ ♠
..... 461-2853
Lurten Linda S..... 461-2853
719 Morales Carlos V [2].. 833-5466
721 Leatherman Bernard J [9]+ ♠
..... 833-1660
Leatherman Denise I 833-1660
800Ⓝ James Willard 833-5173
802 Hardin Steve A [9]+ ♠
..... 252-6185
Hardin Sharon A..... 252-6185
802½ Grondahl David L & Barbara
[9]+..... 461-1644
804 Watkins Billy J [9]+ ♠ 461-8584
Watkins Nancy L..... 461-8584
805Ⓝ Randall Calvin C..... 252-5262
+S CRANE ST INTERSECTS
806 Cook Ruby E [6] ♠.... 254-4190
Cook Brenda L..... 254-4190
806½ Not Verified
810 McElfresh Mickey J [2] ♠
..... 833-5073
814 Cameron Charles L [9]+ ♠
..... 254-1172
Cameron Carol L..... 254-1172
816 Stone Rickie J & Brenda [9]+
♠
818 Wishon Linda B [3]
Wishon Shaun J
820 Not Verified
822 Berger Doris L [5]..... 254-0231
824Ⓝ Marsh Jason B
Marsh Melissa D
+S HUNTER ST ENDS
+S SAVAGE ST BEGINS
· **ZIP CODE 64050 CAR-RT C007**
1102 A Not Verified
B Sanford Wayne P & Joyce
[9]+ ♠
1104 Ward Johnnie J [7]
Ward Johnny J
1105Ⓝ Stine Scott L
Stine Terri D
1105½Ⓝ Helm Vickie R
1106 Not Verified
1109 Clay Perry E [9]+ ♠
1110Ⓝ Brawley Pearl H ♠ 252-4224
1200 Newland Kerry D [5]+ ♠
..... 836-3674
1201 Seek William F & Janice [9]+
♠..... 252-3765
1304 Templeton Richard L & Lin [2]
♠..... 461-4276
1309 Stump Michael W & Marsha
[3] ♠
1400 Sinclair Vern A & Ruthel [9]+
♠..... 254-0500
1401 Zabor Brenda K [5] ♠
..... 833-1889
1403-1409 Not Verified (2 Hses)
1411 Debrot Michael W [9]+ ♠
..... 252-6712
Debrot Susan M..... 252-6712
1414 Beach Ronald W & Linda [9]+
♠..... 252-1931
1415 Not Verified
1416 Barnes Karen S [5]
Blatt David L [5]..... 252-7998
Blatt Vickie L..... 252-7998
Carpenter Karen S [5]
Carpenter Howard R
1422 Hillig Larry D & Pamela [9]+
..... 254-9680
1424Ⓝ King John C
1460 Not Verified
· **ZIP CODE 64050 CAR-RT C006**
16000 Slusser Timothy A [9]+ ♠
Slusser Janice K
+S TRAIL RIDGE DR CONTINUES
16004 Walter Diana M [9]+ ♠
..... 252-3398
Walter Lisa K..... 252-3398
16101 Stewart Harold R [9]+ ♠
..... 461-7070
Stewart Ruth..... 461-7070
16102 Maupin Wellington T Jr [3] ♠
..... 461-5705
Maupin Lora L..... 461-5705
16104 Not Verified
16106 Glazier Edna G [9]+ ♠
..... 254-3511
16108 Juliff James E [9]+ ♠
..... 461-9271
Juliff Edward J..... 461-9271
16200 Butler Elizabeth A [9]+ ♠
..... 461-7798
Ⓝ Perkins John..... 461-0368
16202 Osterberger John & Virginia
[9]+ ♠..... 252-2852
16204 Hickam William H & Nelda
[9]+ ♠..... 254-6189

E PACIFIC AVE
16205 Not Verified
16300 McNeely Dee L [5] ♠
..... 461-2841
McNeely Martha D... 461-2841
16301 Cox William A [5] ♠
..... 461-7939
Cox Wanda J..... 461-7939
Ⓝ Crow Betty..... 461-7939
16304 Leibold Kevin F & Carol [9]+
♠..... 252-3079
16307 A ATLAS TREE SERVICE
busn svcs..... 252-0454
Ⓝ Heath Wayne..... 254-2112
16308 Stinson Jeremy D & Michell
[3] ♠..... 833-4401
16309 McGee Gary L [9]+ ♠
..... 461-2934
McGee Pamela Y 461-2934
16311 Hempfling Kathy L [9]+ ♠
Hempfling John
16312 Cooper William T & Paula
[9]+ ♠..... 254-1169
16314Ⓝ McAnarney Glenn. 252-5685
16315 Acock William J [9]+ ♠
..... 252-6231
Acock Thelma A..... 252-6231
16324 Crain Warren P & Patricia [3]
Crain-Warren Patricia J [9]+
Ⓝ Warren B..... 836-0191
+ELLISON WAY INTERSECTS
BUSINESSES 2 HOUSEHOLDS 109

W PACIFIC AVE (INDEPENDENCE)-FROM 605 S MAIN ST WEST
+S LIBERTY ST INTERSECTS
· **ZIP CODE 64050 CAR-RT C008**
205 Barker Christy L [7] ♠
207 Barker Cecil D [9]+ ♠ 836-5578
Barker Clara D..... 836-5578
FINAL TOUCH beauty shops
..... 833-1189
210 Morrison Kathy M [2].. 833-1346
+S OSAGE ST INTERSECTS
313 BINGHAM WAGGONER
ESTATE museums art gallery
..... 461-3491
+S SPRING ST ENDS
+RAILROAD CROSSES
+S PLEASANT ST INTERSECTS
500 FAMILY LIFE CENTER
religious orgs..... 833-4300
+S COTTAGE ST BEGINS
+S RIVER BLVD ENDS
+S GRAND AVE ENDS
BUSINESSES 3 HOUSEHOLDS 3

SW PACIFIC CIR (LEES SUMMIT)-
· **ZIP CODE 64081 CAR-RT C037**
1148 Hutson Richard E [4] ♠
1152 Wiley Julie L [7] ♠... 246-4743
Wiley Thomas E..... 246-4743
1156 Tidwell Verlon R [4] ♠
Tidwell Shanie M
1160 Dryer Will L Jr & Suzanne [4]
♠..... 246-5117
1164 Sturman Dwight S & Susan [4]
♠..... 246-9735
HOUSEHOLDS 5

SW PACIFIC DR (LEES SUMMIT)-
· **ZIP CODE 64081 CAR-RT C037**
1005Ⓝ Hodgen William J ♠
..... 525-5171
Hodgen Rebecca G.. 525-5171
· **ZIP CODE 64063 CAR-RT B021**
1008 Case Leslie A [5] ♠. 525-2734
Case Sandra M..... 525-2734
· **ZIP CODE 64081 CAR-RT C037**
L A CASE CONSTRUCTION
sngl-fam hsng cnstr
..... 525-2734
1013 Dimaggio Phillip A & Joann [2]
..... 554-8016
1016 White Gregory L & Mary [2] ♠
..... 554-8922
1017Ⓝ Steagall Rick E ♠.. 554-3281
Steagall Fran L..... 554-3281
1020Ⓝ Campbell Nathan A ♠
..... 554-7633
Campbell Susan J.... 554-7633
1021 Greene Charles E [2] ♠
..... 525-6082
Greene Grace L..... 525-6082
Ⓝ Walker Bobbie..... 525-2093
1117 Shapiro Harvey L & Virginia
[2] ♠
1121 Fleming Paula F [6] ♠
..... 554-3328
Fleming Kevin R..... 554-3328
1124 Heinkel Georgia A [5] ♠
..... 246-5527
1125 Lumpkin Lawrence L [6] ♠
..... 524-4371
Lumpkin Mary J..... 524-4371
1129 Nevins Robert R [4] ♠
..... 246-9339
Nevins Lora A..... 246-9339
1132 Kuss Kent E [3] ♠
Kuss Susan L
1136 Reynolds Alan R [5] ♠
..... 525-4828
Reynolds Kathy J..... 525-4828
1140 Tedrow Bruce L [3] ♠
..... 554-1449
Tedrow Kristi J..... 554-1449
1141 Not Verified
1144 Merrell Thomas A [5] ♠
Merrell Kristen C
1145 Schiffbauer Rodney J [5] ♠
..... 525-2239
Schiffbauer Ann B.... 525-2239
1201 Wilk Ronald L [9]+ ♠
Wilk Rebecca M
1204 Krause David V [6] ♠
..... 524-2191
Krause Regina R..... 524-2191

SW PACIFIC DR (L S)
1205 Gillette Melody M [9]+ ♠
..... 246-8634
Gillette Dale L..... 246-8634
1208 Miller Robert L [7] ♠ 524-8076
Miller Barbara L..... 524-8076
1209Ⓝ Samuel Jacob ♠ 554-6810
Samuel Mercy J..... 554-6810
1212 Cundiff Jon D [8] ♠. 525-4841
Cundiff Vicky L..... 525-4841
1213 Thoreson Bryan C [2] ♠
..... 524-7874
Thoreson Mary A..... 524-7874
1216Ⓝ Hendrix Buddy A ♠
Hendrix Susan M
1217 Not Verified
1221 Koch Alan C [9]+ ♠.. 246-5402
Koch Carol L..... 246-5402
1224 Hooper Dennis L & Sandra
[9]+ ♠..... 246-6701
1225 Not Verified
1229 McIntosh Scott C & Carolyn
[7] ♠..... 525-6665
1233 Townsend Thomas A [9]+ ♠
..... 246-1080
Townsend Jeanne M 246-1080
1304 Kuwata Seiji & Debra [2]
1305 McIlroy Michael S [7] ♠
..... 524-3510
McIlroy Julie A..... 524-3510
1308Ⓝ Omari Farouq A
Omari Shifa
1309Ⓝ Feldman Layne A ♠
1312 Deville Marcus T [5] ♠
1313 Thompson Gary L [5] ♠
..... 525-1602
Thompson Deborah L
..... 525-1602
1316 Lamble Jeffrey S [2] ♠
Lamble Audrey L
1317 Sanderson Lisa K [6] ♠
..... 524-3738
1320 Knutson Anthony J [9]+ ♠
..... 525-9535
Knutson Tina M..... 525-9535
1321 Eads James M & Deborah [8]
♠..... 524-1413
1324 Lee Garry R [8] ♠... 525-4586
Lee Janice C..... 525-4586
1325 Zimmerschied Mark G [6] ♠
Zimmerschied Linda R
1328 Cooper Andrew B [9]+ ♠
..... 524-5162
Cooper Debra J..... 524-5162
1329 Reynolds Eugene G [9]+ ♠
..... 524-5594
Reynolds Rose M..... 524-5594
1332Ⓝ Blunt Melvin..... 525-1798
1400 Kral David J [4] ♠.... 246-6642
Kral Janet M..... 246-6642
1404 Harrison Ron B [8] ♠
..... 524-6480
Harrison Joann A..... 524-6480
1405 Pugsley Walter S & Debra
[9]+ ♠..... 525-7619
1408 Burdick Jack E Jr [9]+ ♠
Burdick Sandra L
1409Ⓝ May Kirk R ♠
May Samyn S
BUSINESSES 1 HOUSEHOLDS 53

PACIFIC ST (KANSAS CITY)-FROM 589 CHARLOTTE ST EAST
· **ZIP CODE 64106 CAR-RT C001**
800 Armato Dominick & Jacquelyn
[9]+ ♠
801Ⓝ Abruzzo Geneva L... 471-3183
Accurso Raphael [5].. 471-3204
Ⓝ Arth Roy J..... 842-4216
Ⓝ Battaglia Lena..... 471-2411
Ⓝ Bonomo M B..... 471-8226
Ⓝ Brammer Lonnie H 842-2915
Ⓝ Colletta Joseph D. 842-5133
COLUMBUS PARK PLAZA
apmnt bldg oprtrs
..... 472-0887
Ⓝ Defeo Angelo..... 221-7289
Ⓝ Inzerillo Leila 842-4161
Ⓝ Labella Joseph Sr. 842-7822
Ⓝ Lamore Georgina M
..... 471-6643
Ⓝ Maggio Grace..... 842-9683
Ⓝ Masinia Mathew..... 471-6032
Ⓝ Mingrone Geneva.. 471-6748
Mussorici Josephine [6]
..... 471-0748
Ⓝ Petrus Carmelline.. 221-4098
Ⓝ Privitera Salvatore. 842-6652
Raspberry Mary A [7]
..... 421-1626
801 Not Verified
Ⓝ Ruiz M J..... 421-3956
Ⓝ Russo K..... 474-6178
Ⓝ Russo Mike..... 471-0095
Ⓝ Simmons Acquntta. 471-2533
Ⓝ Spinello Connie T. 842-8863
Ⓝ Stiege Kelo..... 842-8732
Ⓝ Stuhlmacher Phyllis
..... 471-8387
Ⓝ Vail Mayme..... 842-2563
102 McKee Irene E [2]
..... 842-9030
103 Simone Joseph A [3] ♠
..... 421-4858
103 Simone Virginia T
..... 421-4858
104 Gargotta Jake [5]
..... 471-8068
106Ⓝ Quick Donna K
109 Not Verified
111 Gentile Vivian R [3]
..... 842-4784
113Ⓝ Arnone Thomas A Sr
115Ⓝ Riley Rita..... 483-0978
202-208 Not Verified (2 Apts)
210 Distasio Anthony R [9]+ ♠
..... 471-0842

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PACIFIC ST (K C)
210 Distasio Josephine M 471-0842
213Ⓝ Schaefer S M.. 842-8956
213 Schaefer Robert E 842-8956
219 Todd Ronald E [9]+ ☗ 474-4686
219 Todd Mary 474-4686
302 Not Verified
306 Paden James [3]
307Ⓝ Barba Rose M ☗ 471-1026
308 Not Verified
309 Mastrocesare Tolly J [2]
309 Mastrocesare Natale T
310 Lankford Helen L [9]+ 221-5891
311 Cipolla Salvatore C [3] 421-2707
312 Smith Elizabeth [3] 842-5311
312 Smith Mae E..... 842-5311
313-315 Not Verified (2 Apts)
318 Imperiale Virginia [2] 471-0182
319 Not Verified
+CAMPBELL ST INTERSECTS
910 SCALADRINI HALL nrsdntl bldg optrs..... 421-5537
911Ⓝ Presseller Mary..... 221-6602
Ⓝ Sanchez Courtney B
Sanchez Marcus E
1 Not Verified
A Taylor Brian M & Tammy [3] 471-7901
914 1 Not Verified
915 Santora Toni J [6]
+HARRISON ST INTERSECTS
· ZIP CODE 64106 CAR-RT C035
1000Ⓝ Madsen Eric S..... 283-3499
1001-1002 Not Verified (2 Hses)
1003 Bates Maria [2]..... 421-7388
1E Smith Scott A [2] ☗ 471-1509
1E Smith Carolyn J.. 471-1509
2EⓃ Burns Catherine M
1007Ⓝ Druong Huy..... 471-2429
Ⓝ Mesa Roberto
Pham Vinh D [7]..... 221-2074
2WⓃ Tang Buu D
1009Ⓝ Huynh Crtunz..... 471-6659
Ⓝ Thai Van 421-1945
2E Tran Hoang [4].... 471-2376
1030Ⓝ Nguyen Thanh..... 421-4614
Tran Toan T & Nhung [5]
1037Ⓝ Mora Mario..... 321-2792
+GILLIS ST ENDS
+TROOST AVE INTERSECTS
1100 Strada Joseph & Rosalie [9]+ ☗ 421-7934
1110 Le On & Thi [9]+ ☗
1113 Appleton Anthony M [8]
Appleton Julie
Field Vicki L [9]+ ☗.. 221-4091
Field Greg..... 221-4091
1116 Aliyev Zaur U [8]..... 471-6438
Aliyev Irina P 471-6438
1117 Lieto Jose M & Andresina [9]+ ☗ 474-0467
1118 Garcia Mark C [3]..... 421-4395
Garcia Michelle A.... 421-4395
1120 Not Verified
1119 Jankovich David J [7]
1120Ⓝ Olson Stanton L..... 842-7532
Olson Andrew J..... 842-7532
Ⓝ Rodman John 421-7955
2 Not Verified
1121 Vartanov Sergey A & Liliya [4] ☗
1122 Kottwitz Eldon L [9]+ ☗ 474-6348
Kottwitz Lucille S..... 474-6348
1123 Not Verified
1123 Vartanov Arshavir S
B Not Verified
1124 Nigro Angela M [3]... 221-5748
Nigro Julia M..... 221-5748
1125 Tran Trieu V [5] ☗
1126 Parker Terry L [9]+ ☗ 842-3671
Parker Kimberly S.... 842-3671
1128 Harris Joseph J [9]+ ☗
Harris Congetta F
1129 Dicavolo Salvatore [9]+ ☗ 221-5148
Dicavolo Anna R 221-5148
1130 Not Verified
1132 Swafford Lois I [9]+ ☗
Swafford Shawn
1136 Not Verified
1138 Jones Gregory S [2] ☗ 221-2998
ⓂKastens Scott W... 471-5025
ⓂO'Leary E 471-2457
ⓂSargent Kevin..... 471-0620
ⓂYates Sarah..... 421-2830
1N Rodriguez Carl A [9]+ ☗ 842-6603
1N Rodriguez Michael A 842-6603
1139 1-3N Not Verified (4 Apts)
+FOREST AVE INTERSECTS
BUSINESSES 2 HOUSEHOLDS 109

SE PADDOCK CIR (LEES SUMMIT)-FROM 195 SE SADDLEBROOK DR
· ZIP CODE 64082 CAR-RT R002
4151 Not Verified
4155 Simmons Russell E & Shirley [5] ☗..... 537-6081
4159 Price Gary W [3] ☗. 537-5452
Price Kimberly R..... 537-5452
HOUSEHOLDS 3

SE PADDOCK DR (LEES SUMMIT)-
· ZIP CODE 64082 CAR-RT R002
4117 Mithelavage Michael J & Anna [5] ☗..... 537-6040
4124Ⓝ McIntyre Courtney C ☗
4135Ⓝ Pinney Berry A ☗.. 537-4258
Pinney Barry..... 537-4258
4140 Byers Anderson D [2] ☗ 537-4954
Byers Luvellar V..... 537-4954
4147 Files William D [3] ☗ 537-6128
Files Sandra K..... 537-6128
4200 Kostuke Gary P [3] ☗ 537-5457
Kostuke Dorothy M... 537-5457
4201 Huffman Keith A [5] ☗ 537-8306
Huffman Deanna D.. 537-8306
4205 Lineberry John R [4] ☗ 537-7891
Lineberry Carol J..... 537-7891
4206 Gassen Patrick W [5] ☗ 537-7686
Gassen Lori L..... 537-7686
4209 Rotter Jill C [7] ☗.... 537-8495
Rotter Michael..... 537-8495
4212 Wright Jeffrey A [5] ☗ 537-7426
Wright Jennifer S.... 537-7426
4215 Forbes Scott A [6] ☗ 537-5252
Forbes Elizabeth J.... 537-5252
HOUSEHOLDS 12

PAGE ST (KANSAS CITY)-FROM 525 E 6TH ST SOUTH
· ZIP CODE 64106 CAR-RT C001
604Ⓝ Coca Hector..... 471-8657
Ⓝ Cooper David D.... 421-0654
1 Kenyon C J [2]..... 471-8218
2-7 Not Verified (3 Apts)
+E 7TH ST INTERSECTS
+OAK ST INTERSECTS
HOUSEHOLDS 6

PALMER AVE (GRANDVIEW)-FROM 7901 E 128TH ST SOUTH
· ZIP CODE 64030 CAR-RT C013
12800Ⓝ Strickland Ryan..... 767-0699
Williams Ronald L [5] ☗ 767-1792
Williams Dorothy L.... 767-1792
12801 Jones Leonard D [9]+ ☗ 763-3040
Jones Michelle D..... 763-3040
12804 Not Verified
12805 Brown Hugh M [2] ☗ 767-8126
Brown Linda F..... 767-8126
12808 Mahon Dennis P [9]+ ☗ 966-8290
Mahon Kathy D..... 966-8290
12809 Forsberg David W [9]+ ☗ 761-6084
Forsberg Maxine L.... 761-6084
12812 Crims Jerry M & Shirley [3] 761-7843
12813 Jordan Leodie [9]+ ☗
Jordan Audra D
12816 Gray Eddie J [2] ☗ 765-7132
Gray Edgie J..... 765-7132
12817 Tisch Roger D [9]+ ☗ 966-0296
Tisch Judith L..... 966-0296
12820 Gray Evan T [6] ☗
Gray Renee P
12821 Giunta Mark Q [9]+ ☗
Giunta Karol L
12824 Ladner Bobby R [9]+ ☗ 761-5829
Ladner Shirley J..... 761-5829
12825Ⓝ Wells Leo G..... 763-9061
12900 Thomas James C [9]+ ☗ 761-3442
Thomas Lenette R.... 761-3442
12901 Casebolt Joseph M & Sharon [9]+ ☗
12902 Highland Joann M [9]+ ☗ 966-1131
Highland Wayne I..... 966-1131
12903Ⓝ Weber Julian P ☗
Weber Kelly L
12904 Walker James T & Betty [9]+ ☗
12905 Martin David D [9]+ ☗ 761-0583
Martin Sharon E..... 761-0583
12906-12911 Not Verified (3 Hses)
+E 129TH TER INTERSECTS
· ZIP CODE 64030 CAR-RT C022
13300 Myers Samuel R [9]+ ☗
Myers San
+MANCHESTER AVE CONTINUES
13301 Beaman William O [9]+ ☗ 761-7884
13302 Lawrence Carl E [9]+ ☗ 761-4708
Lawrence Lottie Y.... 761-4708
13303 Jordan Jerry [9]+ ☗ 763-0515
Jordan Ruth A..... 763-0515
13304 Smith Leo D Jr [5]+ ☗
Smith Patricia A
13305 Covey Robin M [5] ☗
Covey Dinah M
13306 Hunter Gene A [2] ☗ 966-6247
13307 Haning Robert G [5] ☗
13308 Hamlett Curtis G [3] ☗
Hamlett Velneeta H
13309 Butler Leo [9]+ ☗
Butler Brandon H
13310 Watson Genia F [6] ☗
13311 Blanck Diana S [9]+ ☗ 761-5838
Blanck Albert F..... 761-5838
13312 Richardson Thomas Jr [9]+ ☗

PALMER AVE (G)
Richardson Bertha L
13313 Not Verified
13314 Ward James L [5] ☗ 765-1350
Ward Angela J..... 765-1350
13315 Mason Hope C [5] ☗ 767-9917
Mason Scott E..... 767-9917
13316 Not Verified
13317 Beasley Ronnie L [9]+ ☗ 965-0178
Beasley Theresa A... 965-0178
13318 Newman Charles M [9]+ ☗ 761-6261
Newman Mike..... 761-6261
13319 Rhodus Timothy D [4] ☗ 761-5876
Rhodus Kathi S..... 761-5876
13320 Myers Deborah A [6] ☗
Myers Michele D
13321 Galey Michael W [9]+ ☗ 765-0124
Galey Jeffrey W..... 765-0124
13323 Not Verified
13331 Felder Terry W & Lavonne [2] ☗
13343 Allen Larry G [9]+ ☗ 761-7117
Allen Cynthia A..... 761-7117
13345 Enos Henry E [9]+ ☗ 761-6687
Enos Nancy L..... 761-6687
+E 134TH TER INTERSECTS
HOUSEHOLDS 50

PALMER AVE (KANSAS CITY)-FROM 7919 E 12TH ST SOUTH
+E TRUMAN RD INTERSECTS
· ZIP CODE 64126 CAR-RT C004
1604 Gregory James R & Ann [3]
· ZIP CODE 64129 CAR-RT C008
3311 Not Verified
3313Ⓝ Rearden Dennis L ☗
Rearden Joy M
3315 Drennan Carolyn [2]
3317 Not Verified
3319Ⓝ Bennett L..... 924-0542
3328 Inskip Larry D & Joyce [5] ☗
3330 Not Verified
3334 3336 3338 139-40 Not Verified (3 Apts)
3340-3344 Not Verified (2 Hses)
+E 33RD TER INTERSECTS
3431 Not Verified
3432 Pollard Midge [6]
3433Ⓝ Reyna Rene L
3434 Not Verified
3440 Crayton Voncile [3]
Crayton Julius C
3442-3503 Not Verified (2 Hses)
3504Ⓝ Cox Callie M
3505 McMillan Donald [9]+ ☗
3506-3509 Not Verified (2 Hses)
3514 Coleman Marilyn S [2]
Coleman Chester L
Williams Robert L [3] 861-2325
Williams Cyle..... 861-2325
326 Not Verified
+OZARK RD CONTINUES
· ZIP CODE 64129 CAR-RT C010
4733 Gross Delanna J [4]
+E 47TH TER INTERSECTS
4800 Taylor James L [9]+ ☗ 924-7505
Taylor Adam..... 924-7505
+E 48TH ST INTERSECTS
4809 Mahoney Elizabeth C [4] ☗
+E 48TH TER INTERSECTS
· ZIP CODE 64129 CAR-RT C001
5604 Not Verified
5612 Higgins Dermoth K & Queenann [7] ☗..... 861-9152
5618 Tran Moc T [5]..... 861-3456
Tran Tri..... 861-3456
5619 Pearson Linda M [9]+ ☗
Pearson Joseph W
5624 Harris Isaac G Jr & Zinnet [6] ☗..... 924-3938
5625 Jackson Olivia G [9]+ ☗
+E 57TH ST INTERSECTS
· ZIP CODE 64133 CAR-RT C022
7409 Burton Patricia A [9]+ ☗ 358-4046
Burton Ryan C..... 358-4046
· ZIP CODE 64138 CAR-RT C016
9300 Rose Robert L [9]+ ☗ 765-4262
9301 Not Verified
9304 McFarland Michael R & Mary [9]+ ☗..... 765-2545
9305 Not Verified
9306Ⓝ Norton Antoine..... 965-6905
9307 Peters Donna S [9]+ ☗ 761-2407
Peters James R..... 761-2407
9308 McGee Ivan & Sheela [9]+ ☗
9309 Harrell Lonnie W & Dendra [5] ☗..... 763-2148
9310 Stephens Ronnie M [9]+
Stephens Cynthia A
9311 Seerden Jacquelyn A [9]+ ☗ 767-0040
9312ⓂWilson Nathaniel L
Wilson Isaac T
9313 Eaton Athena M [2] ☗
Eaton Henry
9314 Nelson David E [2] ☗
Nelson Trenette
9315ⓂCarter Jannett N ☗
9316 Easley Garry J [9]+ ☗ 767-7218
Easley Ruth A..... 767-7218
9317ⓂMackrel Anita M
9318 Cox Marva J [3] ☗... 761-3849
9319ⓂBuckner Edna..... 763-0496
9321ⓂMack Sabrina..... 965-7438
9400 Alpough Peter C [9]+ ☗
Alpough Susie M
9401 Not Verified

PALMER AVE (K C)
9402Ⓝ Smith Magerl N..... 965-7024
9403 Mason Frankie M [9]+ ☗ 763-8739
Mason Marvin M..... 763-8739
9404 Hall Dean G [6] ☗.... 763-0834
Hall Raleigh H..... 763-0834
9405 Bruner Diana J [3] ☗
Bruner Raymond E
9406 Carter Wendell [4] ☗
Carter Lopretta R
9407 Snedden Gregory J [9]+ ☗
Snedden Tammie J
9408 Not Verified
9409Ⓝ Thurman Teresa..... 761-9300
9410 Pierce Agnes B [9]+ ☗
9411 Brown James E Jr & Candice [3] ☗..... 765-0150
9412 Evans Kevin O & Gwenleia [5] ☗..... 763-7276
9413 Wates Larry A Jr [9]+ ☗
Wates Edwina P
9414 Austin William E [2] ☗ 763-0611
9416 Roberts David P [9]+ ☗ 761-3685
Roberts Nancy J..... 761-3685
9417Ⓝ Plummer A D..... 761-4076
+E BANNISTER RD INTERSECTS
+OVERHILL RD BEGINS
· ZIP CODE 64134 CAR-RT C022
10300 Larmond Carol L [4] ☗
10301 Doolittle Charles R Jr & Justina [3] ☗
10304 Preston Charles E [8] ☗
Preston Carl
10305 Koeller Kyle A & Kimberly [5] ☗..... 965-0407
KOELLER'S DAY CARE child day care svcs 965-0407
10308 Brown Jonathan N [5] ☗
Brown Julia A
10309ⓂDavis Anthony D.... 767-1498
10312 Harrington Jeane [6] ☗ 761-2663
Harrington Jerry E... 761-2663
10313 Taylor Mark A Sr [7] ☗
Taylor Valarie L
10316 Polson Larry E [9]+ ☗ 761-1831
Polson Mary A..... 761-1831
10317ⓂUnderwood R B.... 765-3205
10320 Butler Bridgette M [2] ☗ 761-6812
10323 Floyd Jarenna M [3] ☗
10400 Anschutz David H [9]+ ☗ 761-8637
Anschutz Harry W.... 761-8637
10403 Leake Keith R [9]+ ☗ 761-5499
Leake Clara G..... 761-5499
10406 Green Calvin V & Linda [9]+ ☗..... 761-2872
10409 Newhouse Richard L & Martha [9]+ ☗..... 765-6952
10410 Wheatley William H [9]+ ☗
Wheatley Brenda J
10413 Fox Jack R & Carolyn [7] ☗
10414 Melton Thomas R [6] ☗ 763-8261
10419 Harris Alice M [2] ☗
Harris Anna M
10420 Dunn Robert L & Sharon [9]+ ☗..... 763-6023
10423 Russell Lyndell L [9]+ ☗ 761-3013
10424ⓂBrown Albert M.... 765-0832
Brown Steven A..... 765-0832
10427 Olney Charles B [9]+ ☗ 765-7085
10428 McMannis Brenda I [9]+ ☗
10501ⓂMorrow Noel D ☗ 966-8015
10505 Pope Betty J [9]+ ☗
Pope Leslie R Sr
10506ⓂDekat Joseph H Jr ☗
Dekat Yvette
ⓂLovato Yvette..... 763-5827
10509 Walter Norman W [7] ☗ 767-1364
Walter Warren W..... 767-1364
10510 Boysen Anthony E & Michelle [4] ☗
10511 Harp Ronald G [9]+ ☗ 763-0878
Harp Ronald G..... 763-0878
10514 Not Verified
10515 McBride Steve R & Virginia [4] ☗..... 765-2248
10518 Wheeler Victoria L [5]
Wheeler Jack T
10519 Duggar Lloyd M [9]+ ☗ 763-0543
Duggar Patricia K.... 763-0543
10521 Not Verified
10522 Wilcox Amy S [5] ☗
10526 Barry Susan D [9]+ ☗
10527 Largent Robert W [9]+ ☗
Largent Sherrie L
10530ⓂCallen Laura L..... 763-8842
10601 Campbell Wayne E & Margaret [9]+ ☗..... 763-0292
10602 Bass Charles H & Lillie [9]+ ☗..... 761-7147
10605 Sands Andrew H [9]+ ☗ 966-1074
Sands Mary L..... 966-1074
10606 Bass Charles D & Stephanie [5] ☗..... 763-2081
10608 Morgan William P [9]+ ☗ 763-5861
Morgan Clara W..... 763-5861
10611 Not Verified
10612 Lombardino Charles V [9]+ ☗ 763-2795
Lombardino Thelma D 763-2795
10615 Bishop Wesley L & Tammy [5] ☗..... 765-2932
10616 Foland Wayne R & Doris [9]+ ☗..... 761-6010
10619 Gouldsmith Ronald S [5]+ ☗ 761-7758
Gouldsmith Kimberly S 761-7758

PALMER AVE
10620 Foland Hal E [9]+ ☗ 966-0333
Foland Tracie A..... 966-0333
FOLAND FARMS gen farms prim crop 966-0333
10623 Heckathorn Virgil W [9]+ ☗ 763-3865
Heckathorn Walterena 763-3865
+E 107TH ST INTERSECTS
+RUSKIN WAY CONTINUES
· ZIP CODE 64134 CAR-RT C011
11202 Not Verified
11203 Stinnett Ricky C [2] ☗ 966-9632
Stinnett Kathleen B.. 966-9632
11204 Perry Yolanda R [3]
11205 Mathes William S [9]+ ☗
11206 Hobbs Larry L & Kay [9]+ ☗ 763-2626
11207ⓂTerry Barry..... 965-6268
11208 Rookstool Lawrence H [9]+ ☗
Rookstool Juanita I
11209 Dewhirst George D [9]+ ☗ 763-8979
Dewhirst Lynn E..... 763-8979
11210 Anderson Douglas J & Tracy [9]+ ☗
11211 Laws Lester M [9]+ ☗ 763-4259
LAWS DAY CARE child day care svcs 763-4259
11212-11213 Not Verified (2 Hses)
11214 Alvarado Benjamin [9]+ ☗ 763-1726
Alvarado Victoria J.... 763-1726
11215 Jackson Shaun E [9]+ ☗
Jackson Linda K
11216 Nichols Sharon [9]+ ☗ 761-3893
11217 Bailey Joyce L [9]+ ☗
11218ⓂLuckey Lois J..... 763-6238
11219 Marable Margarita G [2] ☗
11220 Disher Terry W [3]. 965-0644
11221ⓂGuillory Jeff J Jr
11223 Lane William M [9]+ ☗ 765-7793
Lane Edison W..... 765-7793
11225 Miller Priscilla L [2]. 767-8425
+E 114TH ST INTERSECTS
· ZIP CODE 64134 CAR-RT C070
11400ⓂYoung Jeffrey J
11401 Murphy Christopher T [9]+ ☗ 765-7705
Murphy Reva B..... 765-7705
11402ⓂHernandez Miguel C 763-6150
Hernandez Juan C... 763-6150
11403 Rogers Robert F [9]+ ☗
Rogers Albert E
11404 Howard David K & Mary [9]+ ☗..... 761-3327
11405 Horne Kenneth L Jr & Aleisa [2]..... 965-6594
11406 Frederick Dorothy J [9]+ ☗ 761-7976
Frederick Brad A..... 761-7976
11407 Martin Lonnie R & Melisa [9]+ ☗
11408 Not Verified
11409 Boerger Leonard N [9]+ ☗ 765-5171
Boerger Beth A..... 765-5171
11410 Rosser John C & Rebecca [7] ☗..... 966-9648
11411 Roberts David M & Wendy [2] ☗
11412 Madden Cartheu D [9]+ ☗ 765-6336
Madden Rose M..... 765-6336
MADDEN'S DAY CARE child day care svcs . 765-6336
11413 Lewis Ivory L [4] ☗ 765-9862
Lewis Timothy C..... 765-9862
11414 McGatha Donna L [6] ☗
McGatha Donald L
11415 Curliss Clarice Y [9]+ ☗ 761-6139
11416 Jones Danny D & Tena [9]+ ☗..... 763-4204
11417ⓂMcGee Douglas.... 333-0669
11418 Not Verified
11419 Beckham Joretta [5] ☗ 763-1767
11420 Olewine Roberta E [9]+ ☗ 761-5895
11421ⓂHendricks Chris E 765-0287
Hendricks Amy..... 765-0287
11423ⓂHatfield Diana L.... 965-8124
ⓂKenney Charles L. 761-0568
11424 Hudson M C [4] ☗. 763-4016
Hudson Sarah A..... 763-4016
11425 Zimmerman Mary E [4] ☗ 765-9640
11426 Alumbaugh Betty D [9]+ ☗ 761-8569
Alumbaugh Karen L. 761-8569
11427ⓂGlasco Nanae D
Rembert Joanetta H [2] ☗
11428 Terrell Cecil D Sr & Mary [7] ☗..... 761-3977
11429 Workman Helen D [9]+ ☗ 761-4628
Workman Shelley R. 761-4628
11430 Wheat Larry E [9]+ ☗ 761-9238
Wheat Terri L..... 761-9238
+LONGVIEW RD INTERSECTS
11500 Patton Murl & Betty [9]+ ☗ 966-9219
11501 Green B [3]..... 761-7135
11502ⓂAbdulkarim Hajara 763-3057
LOVE R US CHILD AND NTRTN SVS child day care svcs 763-2888
11503 Douglas Nicole [9]+ ☗
Douglas Robert
11504 Page Michael L & Shawn [9]+ ☗
11505 Smith Edward M [9]+ ☗
11506 Landrum Vincent L & Rhonda [2] ☗

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RICHMOND AVE 2000

RICHMOND AVE (G)

Roberts Twila D..... 763-8594
+E 129TH ST INTERSECTS
BUSINESSES 1 HOUSEHOLDS 26

RICHMOND AVE (KANSAS CITY)-FROM 7517 OZARK RD SOUTH

· ZIP CODE 64129 CAR-RT C010

4726 Riddle Deann D [3]+ ♠
4730 Smith Gregory K [3]+ ♠
..... 923-3538
Smith Karen S..... 923-3538
4734 Allison Larry N [3]+ ♠
..... 923-6716
Allison Barbara J..... 923-6716
+E 47TH TER INTERSECTS
4738 Larson Vickie J [2] ♠
..... 861-0554
Larson Christopher J 861-0554
+E 48TH ST BEGINS
4800 Groves Jeffrey A [3] ♠
Groves Donnelle K
SHEER FANTASY DANCERS STRIPPERS entertainers
..... 861-4087
4804 Rendon Phillip D & Hester [3]+ ♠..... 924-6067
4808 JUSTRITE LIMOUSINE SERVICE lcl pass trans
..... 924-7378
Murrell Jesse J Jr [3]+ ♠
4812 Braden Linda M [2] ♠
Richards Rodney J [2] ♠
..... 924-2380
Richards Alfred 924-2380
4816 Not Verified
4821Ⓜ Murphy Michael S
4824Ⓜ Magruder Lloyd..... 923-5688
+E 48TH TER INTERSECTS
+SNI A BAR RD INTERSECTS

· ZIP CODE 64133 CAR-RT R002

6305 Not Verified
6315 Burkholder Ina M [3]+ ♠
..... 353-3829
6319 Graham David L [3]+ ♠
..... 358-6516
Graham Lynne..... 358-6516
6320 McKinney Ralph E [4] ♠
6323 Arthur Harvey J [3]+ ♠
Arthur Leona R
6324 Vandervoort Susan D [3]+ ♠
..... 313-9106
Vandervoort Jason S 313-9106
6404Ⓜ Porter Peggy L ♠.. 353-5406
Porter Louis..... 353-5406
6407 Not Verified
6418 Whittemore Frank J & Virginia [3]+ ♠
6424 Yates Dale A [3]+ ♠
Yates Cheryl A
6432 Not Verified
+E 65TH ST BEGINS
6500 Kasiah Deborah S [3]+ ♠
..... 737-5441
Kasiah David L..... 737-5441
6501 Cockrum Carla C [2]
6503Ⓜ Van Kam Emily..... 358-5183
Ⓜ Van Kam James W
..... 353-4094
Vankam James E Sr [4] ♠
..... 358-5183
Vankam Teresa S..... 358-5183
6505 Yates Harold E & Jo [5] ♠
..... 737-8313
6507 Stellhorn Raymond & Mattie [3]+ ♠..... 356-1218
6513 Not Verified
6524Ⓜ Lane John..... 353-0604
6601Ⓜ Merrick Laura A ♠
6603 Reynolds Dennis J [3]+ ♠
..... 358-4586
6605 Hicks Sandra K [3]+ ♠
..... 353-6617
Hicks Eric V..... 353-6617
6609Ⓜ Wilkinson Thelma.... 356-9458
6615 Murphy Barbara J [3] ♠
Murphy Matt L
Parker Louise Y [3]
Parker Larry W
Wilkerson Thelma I [2]
Wilkerson William L
+E 67TH ST INTERSECTS
6706Ⓜ O'Neil J..... 358-6899
6707Ⓜ Harter Harry T..... 358-8113
6708 Not Verified
6709Ⓜ Weedman Andrew S
..... 313-1047
6710-6711 Not Verified (2 Hses)
6714Ⓜ Berry Roxane ♠
Berry Charles F
6716Ⓜ Bergan Michael P
Halupnich Kurt J [3]+
Halupnich Tammy L
6720 Kroger Lucy A [3]+ ♠
..... 358-0887
Kroger Kerry D..... 358-0887
6723 Pettijohn Donald E [6] ♠
..... 353-8965
Pettijohn Gisela O 353-8965
6725Ⓜ Dalford Rex L..... 737-3660
6773 Not Verified
6800 Weber Hermann [3]+ ♠
..... 356-8518
Weber Monika M..... 356-8518
6801Ⓜ Bartee Karen P
6802 Smith Ross L [3]+ ♠
Smith Susan D
6804 Parr Darren M [3]+.. 737-3760
+E 69TH ST INTERSECTS
6900 Not Verified
6901 Frazier Daniel C [2]
Stiles Dan A [2]
6902 Lester Anne T [5] ♠ 737-1681
Lester Casey T..... 737-1681
6903 Stevens Robert J [3]+ ♠
..... 353-3273

· ZIP CODE 64133 CAR-RT R008

7020 LIFE TABERNACLE CHURCH religious orgs 737-2670

RICHMOND AVE (K C)

+E GREGORY BLVD CONTINUES

· ZIP CODE 64133 CAR-RT C022

7144 Jones Talley C & Debra [3]+ ♠..... 358-9837
+HULLWOOD ST BEGINS
7200 Robinson Vernon L [3]+ ♠
Robinson Laverne F
7204 Davis Lyle C [3]+ ♠. 737-0262
Davis Gwendolyn A.. 737-0262
7205 Spangler Finley E & Evelyn [3]+ ♠..... 353-2374
7208 King Paul G [3]+ ♠.. 353-6836
King Lois G..... 353-6836
7209 Robertson Helen I [3]+ ♠
..... 353-7233
Robertson Kenneth K
..... 353-7233
7211 Brown James H & Phyllis [3]+ ♠..... 353-6185
7212 Conrad Charles M [3]+ ♠
..... 353-8942
Conrad Agnes H 353-8942
7215 Ralls Willard F [3]+ ♠
..... 358-9722
Ralls Lenora J..... 358-9722
7216Ⓜ Gerlock Larry G 353-3431
7220 Jordan Darrell W [3]+ ♠
..... 358-8289
Jordan George A..... 358-8289
Ⓜ Jordon George A & Jamesetta 358-8289
7221 Schlegel Gustav O [3]+ ♠
..... 353-8456
Schlegel Taryn L..... 353-8456
+E 73RD ST INTERSECTS
7300 n Keller Thomas B & Lisa [2] ♠
+E 73RD TER CONTINUES
7310 Williams George L [3]+ ♠
..... 737-1788
Williams Yvonne L.... 737-1788
7314 Gant Agnes L [3]+ ♠
..... 358-8112
7316 Miscavish Beulah B [3]+ ♠
..... 415-9505
Miscavish Kathryn S. 415-9505
7318 Kelly Roosevelt [3]+ ♠
..... 358-0290
Kelly Roselle E..... 358-0290
7320 n Not Verified
7324 n Guilfoyle William F [3] ♠
..... 415-9847
Guilfoyle Gina A..... 415-9847
7326 Pouncil Robert L & Christine [3]+ ♠..... 358-1159
7331 Cason Frederick D [3]+ ♠
..... 358-7815
Cason Mary A..... 358-7815
7334 Shumate Robert W [3]+ ♠
..... 358-7132
Shumate Claretha..... 358-7132
7337 Not Verified
7346Ⓜ Liseo Phillip A Jr
Liseo Renea I
+E 74TH ST BEGINS
7400 Cunningham Eloise Y [3]+ ♠
Cunningham Doss E
7407Ⓜ Divilbiss Roderick W ♠
7408 Hoffart Wanda T [2]
Hoffart Mark A
7412Ⓜ Ojeda Brad..... 415-4961
7415 Vertreese James L [3]+ ♠
..... 353-6006
7416 Comer M J [3]+ ♠... 358-8108
Comer Jenise..... 358-8108
Ⓜ Thomas L..... 921-3246

· ZIP CODE 64138 CAR-RT C002

7520 Dugger Edward A & Herla [3]+ ♠
7524 Porter Samuel [4]
Porter Regina A
7528 Sims Ernest W [3]+ ♠
..... 356-8611
Sims Beatrice H..... 356-8611
7532 Newton Keith A [6] ♠
Newton Rhonda Y
+E 76TH ST INTERSECTS
+BLUE RIDGE BLVD CONTINUES

· ZIP CODE 64138 CAR-RT C021

9201 May Maereatha R [3]+ ♠
..... 767-0757
May Clevon E..... 767-0757
9202 Santoyo James A [3]+ ♠
..... 761-8859
Santoyo Rhonda A... 761-8859
9203 Dameron Sandra M [3]+ ♠
..... 761-4729
9204 Lacy Gracie A [2]
9205 Wilson Janet S [3]+ ♠
..... 767-1757
9206 Ross Morris A III [2] ♠
9207 Davis Melissa J [5] ♠
9208 Haskins Deborah R [3]+ ♠
Haskins Lynnette R
9209 Meeks Regina G [3]+ ♠
7310 Not Verified
9210 Garber Michael K [3]+ ♠
..... 765-3405
9211 Allen Michael R [3] ♠
..... 765-2281
Allen Pamela K..... 765-2281
9212 Gillett Donald A [3]+ ♠
..... 761-5908
9213Ⓜ Jones Barbara 767-8192
2Ⓜ Sellars Floyd D
9214 Metz Herman G & Helen [3]+ ♠..... 761-1168
9215 Kobets Mary F [3]+ ♠
..... 767-1232
Kobets Godfrey S..... 767-1232
+E 93RD ST INTERSECTS
+FAIRWOOD DR CONTINUES

· ZIP CODE 64138 CAR-RT C070

9313 Williams Steven A [3]+ ♠
Williams Kathryn S
9314 Martin Gloria W [3]+ ♠
9315 Hiebl Bernadine M [3]+ ♠
9316 Phillips John M [3]+ ♠
..... 765-2540
Phillips Vicki L..... 765-2540
9317 Asberry Emmett W & Brenda [5] ♠

RICHMOND AVE

9318 Not Verified
9319 Winders Dallas C [3]+ ♠
..... 761-0746
9320 ALL KLEAR POOL & SPA busn svcs..... 966-0360
Carter Yvonne [4] ♠
9321 Not Verified
9322 Peterson Glendean D [5] ♠
..... 966-0502
9323 Rupe James L & Patricia [3]+ ♠..... 761-6718
9400 Sullivan Thomas P [3]+ ♠
..... 761-0603
Sullivan Elaine M..... 761-0603
9401Ⓜ Johnson Aaron ♠... 965-8223
9402 Nguyen Tuan A [3] ♠
..... 767-8929
9403 Not Verified
9404 Cousin Sammie L [3]+ ♠
Cousin Josephine
9405Ⓜ Jones-Williams Nancy L
..... 761-2397
9406 Schaedel Robert A [3]+ ♠
..... 765-1707
Schaedel Betty J..... 765-1707
9407Ⓜ Beamon Frank 965-5327
Beamon Charles III.. 965-5327
9408 Barry John F [3]+ ♠
Barry Kathleen D
9409 Myrick Tanya A [5] ♠
Myrick Tyrone R
9410 Bopp Betty J [3]+ ♠. 763-5125
Bopp Frederick A..... 763-5125
9411 Talley Antyony & Carmon [3]+ ♠..... 761-0986
9412Ⓜ Tripses Mark S & Jennifer
..... 765-9816
9413 Cobbins Clarence W [3]+ ♠
9414 Kilian Lara N [5] ♠.. 767-9905
9415 Moffett Charles R [3]+ ♠
..... 763-0528
Moffett Elsie R..... 763-0528
9416 Garcia Henry H & Loretta [3]+ ♠..... 763-6893
9417 Whitley Leona E [3]+ ♠
+E BANNISTER RD INTERSECTS

· ZIP CODE 64134 CAR-RT C012

9600 Humphreys Steven E [3]+ ♠
..... 761-5916
Humphreys Maureen T
..... 761-5916
9605 LAWYERS CO-OPERATIVE PUBLISHING bks prdcls nwsppr..... 763-8118
Tucker Betty..... 765-6657
9607 Fields Stanley M [3]+ ♠
9608 Bayazid Mohamad A & Nousayba [4] ♠..... 765-5179
9609 Lowe Robert E [3]+ ♠
..... 761-6313
Lowe Shirley M..... 761-6313
9612 Hahanfeld Richard L [3]+ ♠
..... 763-0995
Hahanfeld Doris J..... 763-0995
Throckmorton Michael E [3]+ ♠
9615 Moore William F & Bettie [3]+ ♠..... 761-3545
9619 Joseph Franklin D & Jane [3]+ ♠..... 966-0461
9700Ⓜ Russell Keith A ♠
Russell Anne M
9701 White Edward J [3]+ ♠
..... 765-8766
White Sandra K..... 765-8766
9704 Fawcett Fred W [5] ♠
..... 767-8016
Fawcett Kimberly M.. 767-8016
9705Ⓜ Taylor Mattie A ♠
9708 Foster Ellen V [3]+ ♠
..... 761-4987
Foster John M..... 761-4987
9710 Creech Harvey R & Thelma [3]+ ♠..... 761-1397
9712-9713 Not Verified (2 Hses)
9714 Adams Daniel L [3]+ ♠
..... 763-3480
Adams Ann M..... 763-3480
9715 Marcotte Jeffrey A [3]+ ♠
..... 763-1492
Marcotte Daniel V..... 763-1492
9717Ⓜ Guizani Mohsen 761-9537
9801 Shipley Morton L [2] ♠
..... 763-1331
Shipley Marilyn J..... 763-1331
9804 Not Verified
9805Ⓜ Bleess Ryan..... 763-6243
Forrester Michael E & Linda [5] ♠ 763-3113
FORRESTER'S DAY CARE child day care svcs
..... 763-3113
9807 Snyder Louis G [3]+ ♠
Snyder Janet B
9808 Frank Tommy L & Elva [3]+ ♠
..... 761-3363
9809 Not Verified
9812 Price Susan B [3]+ ♠
..... 763-6756
Price Gerald M..... 763-6756
PRICE'S CONCRETE concrete work 765-4755
9815 Compton Carl E [3]+ ♠
..... 765-1810
Compton Dorothy C. 765-1810
9816 Benneson Frances B [3]+ ♠
..... 761-6232
9819Ⓜ Green George J 765-9950
Howard Scott V [3]+ ♠
..... 763-6956
Howard Carol J..... 763-6956
A Not Verified
9823 Todd Allen G [3]+ ♠ 763-5759
Todd Honora P..... 763-5759
+E 99TH ST INTERSECTS
9900 Edwards Billie F [3]+ ♠
..... 763-4620
Edwards Nancy J..... 763-4620
9904 Joyce Richard J & Renee [5] ♠..... 966-6409
9924 Duchien Tony R [3]+ ♠
..... 761-4305

RICHMOND AVE

Duchien Phyllis M..... 761-4305
9930 Wright Mitchell T & Laceta [5] ♠..... 765-6873
9936 Greener Mark K [8] ♠
..... 763-2568
Greener Donna M..... 763-2568
+E 99TH TER INTERSECTS
+E 100TH ST INTERSECTS

· ZIP CODE 64134 CAR-RT C013

10000 Davis Ronnie L [3]+ ♠
..... 761-6937
Davis Joni B..... 761-6937
10003 Carney Howard Sr & Lola [3]+ ♠..... 763-2782
10006Ⓜ Thompson Kenneth L & Anita..... 763-2309
10012 Bowen Phyllis A [3]+ ♠
..... 763-2876
Bowen William G..... 763-2876
+E 100TH TER INTERSECTS

· ZIP CODE 64134 CAR-RT C022

10300 Not Verified
+E 103RD TER CONTINUES
10301Ⓜ Grogan E..... 761-1019
Ⓜ Williams Dana R... 923-5987
Williams Rachelle E.. 923-5987
10303 Luvin Ellis C [3]+ ♠ 763-8629
Luvin Marilyn K..... 763-8629
10304 Fueston Timothy R [3]+ ♠
..... 765-8890
Fueston Lana S..... 765-8890
10308 Neyens Geraldine D [3]+ ♠
..... 763-3668
10309 Smallwood Marquitta L [4] ♠
10311 Diehl Ronald A [3]+ ♠
..... 966-0177
Diehl Sandra L..... 966-0177
10312-10316 Not Verified (2 Hses)
10317 Kudra Kenneth R [3]+ ♠
..... 966-9228
Kudra Deborah L..... 966-9228
10320 Not Verified
10323 McGee Rodger D & Pamela [3]..... 966-6439
10326Ⓜ Tinberg J A..... 422-8212
10401Ⓜ Marshall Shonda Y
10405 Hines Markeda A [2]
..... 761-4616
Ⓜ Sawyer Tracy I
10408 Libeer Earl L Jr [3]+ ♠
Libeer Margaret A
10409 Hackaday Charles R [3] ♠
10412 Kille Charlie W [2].. 965-7347
10413 Johnson Earnest L & Sonya [3] ♠
10417 Snorgrass Jerry W & Brenda [3]+ ♠..... 761-6766
10418 Harris Carl A [3]+ ♠
Harris Yvette R
10420 Not Verified
10421 Weissman Steven C & Joyce [3]+ ♠
10424 Cade Joann A [3] ♠
10425 Russell Pamela S [3]+ ♠
..... 765-6715
10427 Russell Thomas O [3]+ ♠
..... 761-5728
Russell Ann D..... 761-5728
10428 Richardson K R [2] ♠
Richardson Logan C
10434 Not Verified
10500Ⓜ Hutchison Janet F ♠
..... 767-8146
Hutchison Mark L..... 767-8146
10500 Not Verified
Ⓜ Strader Grover L & Kathryn
10501 Rickey Zoe E [3]+ ♠
..... 761-6740
10505 Strickland Walter L Jr & Sharon [3]+ ♠
10506 Taylor Rev Michael D [2]
..... 761-5631
10508 Fuller Curtis R [3]+ ♠
10511 Russell Ronald J Jr [3]+ ♠
Russell Deborah L
10512 Watkins Jacqueline J [3]+ ♠
..... 761-1159
Watkins Donald E..... 761-1159
10515 Butler Steven W [3]+ ♠
..... 765-4116
Butler Velma L..... 765-4116
10516 Crawford Jessie M [3]+ ♠
..... 763-6209
10519 Cooke Dora M [3] ♠
..... 965-0988
M A C ASSIST CO cstm cmptr prgmg sv
..... 761-2153
10522 Neitch Johnnie J [3]+ ♠
..... 763-1595
Neitch Catherine L..... 763-1595
10523 Not Verified
10524 Cohee Diann C [3]+ ♠
10526Ⓜ Smiley Rhonda..... 756-5291
10600Ⓜ Powers Jerry..... 765-7216
Powers Kristie L..... 765-7216
10601 Not Verified
10601 Main William A
Walker Lossie L [3]... 763-1372
Walker Kristen M..... 763-1372
10604 Barker Christopher E & Geri [3] ♠..... 765-9502
10605 Osick Barbara J [3]+ ♠
..... 765-4448
Osick Edward J..... 765-4448
10607Ⓜ Cheffen Delshawn L
10608 Potts Harold C [3]+ ♠
..... 761-4475
10609 Not Verified
10610Ⓜ Adamson Laura L. 965-6557
Ⓜ Ervin Thomas J
Ervin Laura L
Ⓜ Hunter Daniel E
10611 Smith Raymond H & Wilma [3]+ ♠..... 761-0275
10612 Sherman Berneice E [3]
..... 965-8585
Tott Bernon E & Bernice [2] ♠
10619 Not Verified
10622 Kenney Nancy I [3]+ ♠
..... 761-5165
+E 107TH ST INTERSECTS

· ZIP CODE 64134 CAR-RT C070

11400 Hendershot Jean [3]+ ♠
..... 761-6631

RICHMOND AVE

Hendershot Thurl E.. 761-6631
+E 114TH ST CONTINUES
11401 Watkins Arthur E [3]+ ♠
..... 763-6039
Watkins Patricia M... 763-6039
11402Ⓜ Owens Stephanie P
..... 767-1138
11403 Berryman Dorothy E [2]
..... 763-4750
11404 Edwards Jon M & Wanda [3]+ ♠..... 763-0673
11405 Anderson Carole D [3]+ ♠
..... 761-8987
Anderson Sylvia P.... 761-8987
11406Ⓜ Johnson Robert..... 761-6332
11407Ⓜ Flemons Lawrence 965-6864
11408 Not Verified
11409 Saxton Lawrence D & Sheri [4]
11410 Farris Donald W [8] ♠
Farris Hope J
Ⓜ Kelly Anne M
11411 Britton George L & Hazel [4]
11412 Wright Dale P [3]+ ♠
Wright Jeanette P
11413 Washington Marcelline [3]+ ♠
..... 761-5630
Washington William V
..... 761-5630
11414 Not Verified
11415 Brown Cledyth C [3]+ ♠
Brown James R
11416 Not Verified
11417 Baskin James L [3]+ ♠
..... 761-0642
Baskin Emma L..... 761-0642
11418Ⓜ Carillo Eloy..... 761-4193
Ⓜ Carrillo Eloy P..... 761-4193
Ⓜ Rader B L..... 761-2230
Ⓜ Rader Carl..... 966-8784
11419Ⓜ Stock Cara L
11420 Johnson Andrew III [3]
Johnson Addie
11421 Scantlin Virginia M [3]+ ♠
..... 765-9627
11422 Hilden Robert J [3]+ ♠
Hilden Dennis J
11423 Matlock Gary C & Catherine [3]
11424 Heckart Glenn M [3]+ ♠
..... 761-2808
Heckart Velva R..... 761-2808
11425 Boone Helen G [3]+ ♠
..... 761-8315
11426 Nantz Jackie R & Darlene [3]+ ♠
11428 Not Verified
11429 Kobel Gary D & Violet [4] ♠
..... 761-1688
11430Ⓜ Nelson Robert & Barbara ♠
..... 965-0456
11431 Williams Nancy L [3]
..... 763-7334
11432 J B & C auto glass rpr
..... 765-6173
Waters John B [3] ♠ 765-6763
Waters Christine L... 765-6763
11433Ⓜ Sanders Amanda B
11434Ⓜ Ross R..... 761-9366
11435Ⓜ Beaton Jeffrey S
11436Ⓜ Owens Shirley..... 765-6099
11438 Not Verified
+LONGVIEW RD INTERSECTS
11501Ⓜ Shoats Sheila..... 765-8658
11503 Carter Falicia E [3]. 965-0457
11505 Braxton Dorothy S [5]
..... 765-2990
Braxton Cynthia A.... 765-2990
11507Ⓜ Gainey Carlos..... 767-9938
11509 Cheadle Anton & Linda [2]
11511 Williams Marie [3]... 966-2085
Williams Victor..... 966-2085
11513Ⓜ Turner Shanetta.... 761-5898
11515 High Eula M [3]+ ♠ 765-8444
High Brian K..... 765-8444
11517Ⓜ Sanders Jessica D 965-6284
11519Ⓜ Haney I..... 763-6803
Ⓜ Johnson D
Ⓜ Rice Novella R
A Not Verified
11519 aⓂ Barner Charlene 965-7236
11520 KIRKTOWN HOMES ASSOC real est agts/mgrs..... 763-6787
11521Ⓜ Gonzalez Teresa L
..... 761-2661
11523Ⓜ Webb Rick E & Corazon
..... 965-6743
11527Ⓜ Walker Donovan E
11529 Moss Zeola K [3]+ ♠
..... 763-8357
11531 Not Verified
11533Ⓜ Clayton Vincent E. 965-6035
Clayton Angela G..... 965-6035
11535 Caradine Mary E [3]+ ♠
Caradine Carla M
11601Ⓜ Cole Sonja..... 965-9399
Harris Bette J [2]
Harris Merri A
B Not Verified
11603 Not Verified
11605Ⓜ Booty Marie A
Booty Emanuel
11607 Haynes Patricia D [3]+ ♠
Haynes Mario A
11609Ⓜ Brooks Monique.... 761-5844
11611 West Pamela K [2]. 966-2014
West Taylor B..... 966-2014
11613 Rule Rodelle C & Hilda [3]+ ♠..... 763-9310
11615Ⓜ Campbell Kendra.. 765-2991
11617 Not Verified
11619Ⓜ Sanchez Monique L
..... 966-9711
11621 Not Verified
11623 Jones Latanya D [3]
11625Ⓜ McCauley Karen A
BUSINESSES 10 HOUSEHOLDS 324

W RICHWOOD DR (BLUE SPRINGS)-FROM 2145 SW 9TH ST WEST

· ZIP CODE 64015 CAR-RT R005

809 Parks Erin K [3] ♠

TP	Adjoining	Source
✓	✓	R. L. Polk Co.

OZARK RD 1990

N OVERLAND CT–Contd
8442 Vacant
8444 Vacant
8446 Menssen
8448 Dupay
8450 No Return
8452 No Return
8454 Farris
8456 Mojarrad Ali
8458 Vacant
8460 Post
8462 Vacant
8464★Graham Randy E 746-0480
8466★Dyess Jarrold 587-4663
8468 Vacant
8470 Vacant
8472 Wang Miao 741-5810
8474 No Return
8476★Marcotte Greg
8478 Vacant
8480 Olsen
8482 Vacant
8484★Wright Reynard
8486★Mc Cauley Charles
8488 Vacant
8490★Johnson Robt
8492★Hughes Wm R 746-0960
8494 Manion Timothy 741-7807
8496 Moore
8498 Carey Bryan D 741-1968

499-A

OVERLAND DR NW –
6403 Round Ridge Church Of Christ 587-6802
6407 Southwestern Bell Tel Co field office 741-9940
NW 66TH ST INTERSECTS
6500 Windhorst W H ◎ 587-2503
6504 Guinn Michl S ◎ 741-9091
6508 Shaver Karen S Mrs 741-6118
6512 Smith M I ◎ 587-9933
NW PARK PLAZA RD INTERSECTS
6604 Murguia Victor A ◎
NW 67TH ST INTERSECTS
6608 Milford Richd A ◎ 741-4494
6612 Daily Robt F ◎
6700 Gulberg Lee ◎ 741-2941
6701 Homer A L ◎ 741-6041
6704 Wright Jerry M ◎ 587-8293
6705 Fundoms Lowell
6708 Woods Ronald O ◎ 741-6002
6709 Kramer Jeremy 587-1595
6712 Goddijn Robt ◎ 741-1152
6713 Rudd Gregory
6716 Salisbury Robt B ◎ 741-0234
6720 Steadman Thos W Jr ◎ 741-0415
6800 Brady & Associates hosp conslt 587-2120
Brady Frank J ◎ 587-5324
6801 Wright Lloyd E ◎ 741-4343
6803 Deister Co Inc The bldg contr 587-1800
Deister Don F ◎ 741-1967
6804 Hughey P F ◎ 741-4966
6805 Eddings Joe D ◎ 741-4283
6808 Wernicke Fred J ◎ 587-8358
6812 Tosti Angelo S ◎ 741-5789
6816 Hulfeld Raymond W ◎ 741-7397
6820 Rudd Harold ◎ 587-6040
6824 Holmes Richd J ◎ 741-7880
6828 Caldwell Timothy A ◎ 741-1758
6832 Kimbrell C Carl ◎ 741-3381
6836 Larson Richd H ◎ 741-7004
6900 No Return
6904 Cockrell Norm C ◎ 741-9039
6907 Gibbs Wm F ◎ 587-8906
6908 Arnold Arlene Mrs ◎ 741-6513
6912 Hauetter Janice G ◎ 741-5508
NW LINDEN RD INTERSECTS
6913 Rinke Gerald O ◎ 741-1125
6916 Smith Donovan N ◎ 741-6854
6919 Nuckols Joseph H ◎ 741-3034
6920 Lloyd Camile H Mrs ◎ 741-2817
NW 70TH ST INTERSECTS
7007 Kerr Carl L Rev ◎ 741-5515
7011 Sturtridge Gregory ◎ 587-9840
7022 Wingo Lottie E Mrs ◎ 741-2282
Wingo Glenn E 741-2282
7200 Platte Woods R L D S Church 741-6785

520

ZIP CODE 64151
8000 Whitaker John J ◎ 587-0332
8001 Marler
8010★Cooper Larry ◎ 741-7589
8011 Roach Steve ◎ 587-6845
8021 Vacant
8044 Vacant
NW WAUKOMIS DR INTERSECTS
8100★Buso Reinaldo ◎ 741-2148
8101 Woods Donald ◎ 741-1020
8108 Benson Robt C 741-4861
8116★Petree Danl L ◎ 587-4961
8124 Mack Ken ◎ 587-4679
KIRKWOOD AV INTERSECTS
8130 Franko John ◎ 587-0162
8136 Kim Chang H ◎ 741-8864
8213 Dickerson Chas ◎
8215 Wright M L 741-9252
8216 Babich Al M ◎ 587-2336
8217 Wright L Bradley ◎ 587-2937
8218 Denning Ron ◎ 587-8815
8220 Kelly Jerry ◎ 587-1748
8221 Coves Clubhouse 741-7715
NW 83D ST INTERSECTS
8317 Young Joseph F ◎ 741-2936
8323 Henderson Ronald G ◎ 741-9435
8329 Voburnik Ronald real est broker ◎ 587-1728
8332 Hagedorn James F ◎ 587-6343
8334 Jones Marlin ◎
8335 Koeltzows Don ◎ 587-6756
8336 Vacant
8338 Kovac Roberta A ◎ 741-2750
8340 Bauerle Don L ◎ 587-8970
8341 Quinn Steven J ◎ 741-9365
8342 Jansen Dennis ◎
8344 Vacant
8346★Annin David E 587-9877
8360 Metzgar Lila L ◎ 741-0882
8362 No Return
8364★Mines Michl 587-3756
8366 Stegman Shawn ◎ 587-0490
NW 83D TER CONTINUES

501

ZIP CODE 64153
8530★Farley James W Jr ◎ 741-9361
8532 Vacant
8533★Henry Mike ◎ 587-4028
8534★Kimball Jay W ◎ 587-8455
8535★Shaw Wm ◎ 587-2581
8600 Brinnan
8601 Williamson John ◎ 587-8509
8602★Young Luke ◎ 741-8019
8603 No Return
8604★White Milton ◎ 587-9624
8605 Long Michl ◎ 587-8464
8606 Barry Karel R 587-1948
8607 Hutchison
8608 Gerdes Gerald W ◎ 587-6192
8609 Vacant
8610 Stomp Richard ◎ 891-8046
8611 Zigelhofer Geo N 741-2833

325

OVERTON AV –FROM 5200 OVERTON RD NE IN A CIR

ZIP CODE 64133
4700 Jones Robert D ◎ 358-7303
4701 Neaveill Boyd A ◎ 353-7896
4709 Mathia David E ◎ 356-7931
4710 Harrison Phillip E 737-1848
4715 Vogt Geo E ◎ 353-6929
4716 Weddington John
4719★Rockhold John R 353-4225
4722 Vonderahe Ann M Mrs ◎ 356-7603
4723 Kremers Henry G ◎ 356-9291
4726 Horan John B ◎ 353-8223
4729★Weber Mike ◎ 737-3259
4732 No Return
4733★Lemon Steve A 358-4132
4736 Babich Thos ◎
4737 No Return
E 48TH ST INTERSECTS
4800★Thomas John R ◎ 358-6935
4801 Harris Amos ◎ 356-9683
4808 Finn Jeanie Mrs ◎ 356-1470
4811 Diekhoff Joachim ◎ 356-4773
4814 Allen John E ◎ 356-4620
4817 Gauldin Charles R ◎ 353-3397
4820 Wilson John R ◎
4821 Snow Doyle O ◎ 353-2490
4824 Tudor Ruby ◎ 358-4684
4827 Stone Thomas E ◎
4830 Browning Geraldine 388-7280
4833 No Return
4834 Thomas Jeffry ◎ 358-4741
4837 Harwood Terry L ◎
4840 Harris Paul D ◎ 356-7242
4843 Hook Mike ◎
4844 Meyers John R ◎ 356-4083
4900 Oster Wm J ◎ 353-6465
4901 Gum Charles R ◎ 356-4181
4906 Ward Valarie L ◎ 356-2969
4907 Gross Larry C ◎ 358-9049
4913 Toczek Frank J ◎ 356-2676
4914 Rogers Earl W ◎ 356-0318
4918 Vacant
4919 Foley Herbert J ◎ 356-3116
4928 Honeywell Fred J ◎ 356-4114
4929 Noone C Patricia Mrs ◎ 358-2208
4933★Walker David D ◎ 353-0723
4937 Haynes James R ◎ 358-7854
4941 No Return
EVANSTON AV INTERSECTS
HAWTHORNE AV INTERSECTS
5020 Johnson Joe K ◎ 353-8837
5021 Siemann John E ◎
5024 Canfield Harriet Mrs ◎
5025 Byars Linda F ◎ 356-7761
5028 Smiddy Glen ◎ 358-5567
5031 Spriggs Marla K ◎ 353-5193
5032 Baker Robt W ◎
5035 Thomas John ◎
5036 Grote John ◎ 737-3578
5040 Stone Charles E ◎
51ST TER INTERSECTS
5100 Casey D D ◎ 353-4779
5104 Graham Charles O ◎ 353-3479
5107 De Moss Robt L ◎ 358-0655
5108 Angelbeck Paul E ◎
5111 Mc Ginnis Larry A ◎ 737-3487
5112 Bahan Robt L ◎ 358-0955
5115 Taylor Paul H ◎ 353-6036
5116 Scott Carol S ◎ 353-2368
5120 Denti Raymond V ◎ 358-8753
OVERTON CIRCLE INTERSECTS
5220 Graham C ◎ 358-5397
5226 Vacant
5232 Germann Greg A 358-2427
5238 Lutgen Mark ◎
E 52D ST INTERSECTS
5242 Linton Francis C ◎ 356-2883
Dyke Jewell E 353-3899
5248 Hillson Harold ◎ 358-8506
5252 Sirna Pete L ◎ 353-4594
5253 Price Keith V ◎ 356-4486

325

OVERTON CIR –FROM 5200 OVERTON RD NE THEN IN A CIRCLE BACK TO 5200 OVERTON RD

ZIP CODE 64133
5119 Wagner John D ◎ 356-1455
5123 Epperson Erlene N ◎ 358-0129
5201 Bowers Kenneth C ◎ 353-6207
5207 Davis Leland ◎ 353-9151
5213 Fritz Gail ◎ 356-8729

616

OVERTON ST N –FROM N LINDENMAN TER NORTH

ZIP CODE 64161
3820 Congdon A L 455-3481
3827 No Return
3840 Unness Dan M ◎ 454-2681
3923 Condra Dave

227

OWEN AV –FROM 1000 N PROSPECT AV EAST

ZIP CODE 64120
N CHESTNUT TRFWY INTERSECTS
2800 Vacant
N CHESTNUT AV INTERSECTS
N KANSAS AV INTERSECTS
N AGNES AV INTERSECTS
N BELLEFONTAINE AV INTERSECTS

238

OXFORD AV –FROM 36TH ST TER SOUTH

36TH TER INTERSECTS
ZIP CODE 64133
3601★Wilper Mike E ◎ 737-2710
3608 Williams P B ◎ 353-0240

430

ZIP CODE 64134
E 103D ST INTERSECTS
10308 No Return
10316★Osborn S 765-3925
10320 Vacant
10324 Hornaday Patricia Mrs ◎ 761-9531
10325 Burt Dwight D ◎ 763-8267
10400 Owsley Chas E ◎ 966-1192
10500 Connelly Michl ◎ 966-0890
E 105TH ST INTERSECTS

616

OXFORD ST N –FROM NE 40TH ST NORTH AND SOUTH

ZIP CODE 64161
3855 Copeland William ◎ 452-6569
3926 Condra David
3933 Graciano H A ◎ 452-0971
N E 40TH INTERSECTS
4033 Vacant
N E 41ST ST INTERSECTS
4118 Nobel Dennis

327

OZARK RD –FROM SNI-A-BAR RD NORTHEAST OF I-435

ZIP CODE 64129

242

EASTERN AV INTERSECTS
7330 Thoms Donald E ◎ 861-0255
7410 Eastwood Hills Community Assn Hall 924-9546
7417 Tippie Ida L ◎
7456 Eastwood Swimming Club Inc
7501 Tripp Mike ◎ 861-8520
7505 Stacer Chas E 923-3666
7509★Messina S ◎ 923-7715
E 47TH ST TER INTERSECTS
RICHMOND AV INTERSECTS
7511 Ballinger James F ◎ 921-7679
7517★Bowman L R ◎ 924-5209
7600 State Natl Guard Det 1 Co C 135th Signal Bn 922-3280
State Natl Guard (Orgl Mtce Shop No 1) 922-3261
State Natl Guard 205 Military Police Btln 922-3250
State Natl Guard Armory (Addl Sp)
State Natl Guard Hdqtrs Trp Command (Starc) 922-3220
State National Guard Recruiting Ofc 922-3232
7605 Gulledge Essie ◎ 923-7831
7611★Thornton Vern ◎
7621★Scheffe Victor 924-6062
7627 Vacant
7633★Hicks Robt L ◎ 924-5795
7639 Vacant
PALMER RD INTERSECTS
7701 Nickerson Corky B ◎ 921-0651
7707 Hammond Jesse ◎ 923-4163
7711 Owings Wm R ◎ 924-5404
7715 Hale Jody L ◎
7719 Herrington James W ◎ 923-5979
7801 Brand Donald W ◎ 923-6853
7805 Riley Robt A ◎ 861-8409
7815 Jordan Harold ◎
7819 Sanders Clarence E ◎ 923-0782
7901 Fields Steve ◎
7905 Bridges Chas ◎ 923-2231
7909 Wasson Dale L ◎ 923-2051
7915 Lading Donald E ◎ 923-8770
7919★Stoddard Roger W ◎
8100 City Of K C Municipal Correctional Inst 861-1212
SYCAMORE AV INTERSECTS

115-A

OZARK ST (NORTH KANSAS CITY)–FROM 1400 E 12TH AV NORTH

ZIP CODE 64116
E 12TH AV INTERSECTS
1203 Hydraulic Power Systems Inc 221-4774
1207 S C M Corp (Whse) 474-5205
S C M Corp (Sls Ofc) 842-8260
1221 Hautly Cheese Co 421-3630
1222 Vacant
1225 Welco Mfg Co Inc dry wall prod-paint sup mfr 471-1788
BEDFORD AV INTERSECTS
16TH AV INTERSECTS
17TH AV ENDS (NOT OPEN)
18TH AV INTERSECTS
19TH AV INTERSECTS
20TH AV INTERSECTS
ARMOUR RD INTERSECTS

229-A

ARMOUR RD INTERSECTS
E 21ST AV INTERSECTS
E 22D AV INTERSECTS
E 23D AV INTERSECTS
E 24TH AV INTERSECTS
E 25TH AV INTERSECTS
CLARK FERGUSON RD INTERSECTS

112

PACIFIC ST –FROM 539 CHARLOTTE ST EAST

ZIP CODE 64106
CHARLOTTE ST INTERSECTS
CAMPBELL ST INTERSECTS
910 Holy Rosary Church Hall (scalabrini hall) 842-5440
911★Taormina M R 283-0954
914★Walz Edw I ◎ 221-5275
2d Fl Vacant
915 No Return
HARRISON ST INTERSECTS
Floors
1st Fl★Distefano Fanna P 842-9594
2d Fl Vacant
1002 Vacant
1003 Apartments
1st Fl★Mangiaracina Carl 471-3796
2d Fl Vacant
1007 Apartments
2d Fl Valenti Kate Mrs ◎ 842-3449
B1 Vacant
1st Fl Vacant
1009 Apartments
1st Fl★Fensom David 842-8271
1st Fl Vacant
1015 Vacant
Bsmt Vacant
★Ta The Thanh 474-1913
1066★Ta Tan T
GILLIS ST INTERSECTS
TROOST AV INTERSECTS

116

TROOST AV INTERSECTS
1100 Strada Joseph ◎ 421-7934
1110 No Return
1113 Apartments
1e Wiles Janice A 474-6646
2e Quarantotto Maria Mrs
1w Cipolla Josephine Mrs 421-1706
2w Vacant
1116 Field V L 283-0416
1117 Vacant
1118 No Return
1119 Crisp Robt
1120 Apartments
1st Fl Frances Myrtle
2d Fl Lee Roy 221-9045
1121 Apartments
1st Fl★Latona Kathlerine 471-0817
2d Fl Ciocciaro Teresa 842-9604
1122 Sivigliano Sally R Mrs ◎
1123 Palmentere Jeanette ◎ 471-7253
1124 Nigro Michl A ◎ 221-5748
1125 Vacant
1126 Parker Terry L ◎ 842-3671
1128 Harris J C ◎
1129 Dicavolo Salvatore ◎ 221-5148
1130 Vacant
1132 No Return
1136 Gargotta Rose ◎ 842-7666
1138 Apartments
N★Compos Joseph H
Rear★Huynh Sang 842-7281
N Donnici Finell 221-3156
3d Fl★Lieto A M
S Ancheta M 472-5282
2d Fl Vacant
1139★Bui Ty Van 842-0624
FOREST AV INTERSECTS
PACIFIC ST INTERSECTS

110-A

PAGE ST –
ZIP CODE 64106
604 Page Street Apartments
1★Mao Onn 421-0353
2 Vacant
4 Vacant
5 Vacant
6 Vacant
7 Jackson Charles 421-1714
8 Vacant
9 Vacant
10 Vacant

TP	Adjoining	Source
-	✓	R. L. Polk Co.

47TH TER E 1990

W 47TH ST–Contd
G10 K B E Q-104 F M radio sta 531-2535
G50 K B E Q-104 F M (Addl Sp)
100 Block & Co Inc Realtors 531-1400
100 Block Asset Management real est 531-1400
101 Vacant
200 Ellerbe Becket archts & engs 561-4443
201 Heart Of America-United Way socl serv agcy 931-8725
201 United Way Heart Of America 931-8725
201 Heart Of America-United Way (combined fed campaign) 931-5220
300 Heart Of America United-Way (k c camping connection) 931-8725
300 United Way (Addl Sp)
310 Polsinelli White Vardeman & Shalton attys 931-3353
400 Nortie Construction
612 Office Building
Floors
1st Fl Kuppenheimer Men's Clothiers 756-3367
1st Fl Ambience Furs 753-4443
1st Fl Vacant
1st Fl Sun & Ski Sports Expo sportswear & equip 931-8944
2d Fl Vacant
3d Fl Vacant
4th Fl Parking Ramp
5th Fl Parking Ramp
Bsmt Walton Construction Company The 531-6075
612 T C Dance Club International Inc 531-8232
Wrenn Insurance Group 756-1800

59

STREET CONTINUED
707 Unity Church On The Plaza 561-4466
711★Abdulky Albert Rev
715 Seville Square (Parking)
SUMMIT INTERSECTS
800 Plaza Center Building 561-6424
FLOORS
Bsmt Plaza Center Bldg (Eng Ofc)
1st Fl U S Postal Ofc (Mail Rm)
100 Burnstein Law Firm 561-0110
1st Fl Plaza Center Building (Canteen)
ROOMS
101 Myers & Associates Inc real est appraisal 561-9770
101 Conus & Nicholson Inc investment advisors 931-9757
102 Norman Beverly Public Relations public relations 531-3577
103 First Business Bank Of Kansas City Mo bks & trust cos 561-1000
Level First Business Bank Of Kansas City Mo (Bkpg Dept) (addl sp)
200 Executive Automation Consultants Inc comp reseller 753-2125
201 Crown Management Inc property mgmt 756-1084
202 Shutz Byron Co real est investor 531-4500
212 Honan Wm J Co fin planning 753-7070
213 Reserve Mortgage Corp 753-0221
215 Sales Consultants Of Kansas City exec search consit 561-3700
225 Moses Albert N psychologist 753-2620
225 Sander Don M clinical psychologist 753-2620
230 Upjohn Health Care 753-8811
301 Levitt Management Co investments 756-3944
305 Vacant
312 Trans-Mark Travel 756-2646
315 Murray Robt H Partners Ltd investments 531-0801
318 Sieverling N Lynne cpa 531-0202
319 De Vries & Co Inc inv banker 756-0055
320 Vacant
321 Rosenblum Law Office 753-6355
321 Brunson & Low P C law firm 931-3721
330 Conrad Wm M Architects-Planners archt & planners 931-0200
402 Kansas City Counseling Center Ltd marriage & fam counselling 931-6333
403 Institutional Investors real est 931-2400
404 Glaze Lawrence C Real Estate Services 531-2323
406 Hartigan & Yanda P C 756-2566
408 Teasdale Joseph P Law Offices 561-3165
410 Marsh W Rodger & Associates cpa 931-6300
418 Schleicher Latz Loyd Patterson & Lacy lwyrs 756-0800
424 Vacant
520 Geha & Associates Inc fin planning 531-3595
520a Smith Donald L & Co real est 531-6770
520a Smith Brown & Jones managerial recruiting 531-4770
525 Summit Financial Inc indus equip fin & leasing 931-8181
526 Network Institute Of America novell educ trng 753-1820
555 Vacant
600 Boyd Brown Stude & Cambern consulting engineers 756-1484
604 Francis Families Foundaton The 531-0077
608 Ireland James architect 756-3030
620 Plaza Center Building (Bldg Ofc) 561-6424
624 Vacant
701 Sowders A Glenn Jr lwyr 531-6163
705 Vacant
709 Van Gilder Agcy ins 753-1393
711 Cray Foundation The charitable fund 756-0600
715 Fox Higbee Inc adv mktg 753-4444
717 Sunway Hotel Group 531-4884
717 Sunway Hotel Management Inc real estate management 531-4884
720 Melcher Harold personal investments 931-5300
801 Park Plaza Office Building 561-3456
Suites
100 Vacant
101 Vacant
105 Frensley & Towerman P C law firm 531-5262
107 Triad Mortgage & Realty Funding Corp coml mtge bkg 561-7000
115 Vacant
200 St Luke's Health Ventures Inc health care mgmt 531-4344
201 U M K C (Conference Cntr) 276-1477
204 Business Temporary Services 931-5500
210 Vacant
212 Vacant
219 Vacant
223 Norton George C Management Co apt mgmt 756-3705
300 Prudential-Bache Securities investment securities 932-6300
301 Vacant
311 No Return
317 Variety Club charitable org 753-6427
319 American Express (Merchant Sls) 561-2273
321 Prudential-Bache Capital Funding institional equity sls 932-6300
400 Poppe Taylor & Clark P C cpa 756-2177
410 Vacant
412 Woodmen Financial Resources Inc fin servs 561-5000
415 Merrill Lynch Life Agcy life ins div-merrill lynch 932-9788
419 Favorite Nurses supplemental staffing 531-3131
423 Excel Temporary Services emp contr-temporary help 753-6777
500 Merrill Lynch Pierce Fenner & Smith Inc broker investment securities 932-9700
MADISON ST INTERSECTS
ROANOKE PKWY INTERSECTS

155

MADISON AV INTERSECTS
ROANOKE PKWY INTERSECTS
912 Vacant
916 Taylor James E & Associates (Addl Sp) 753-8677
919 Realty Consultants 756-0540
920 Taylor James E & Associates A I A archts 753-8677
BELLEVIEW AV INTERSECTS
1013 Alfredo's Hair Design 531-3999
JARBOE ST INTERSECTS
1101 Apartments
A★Hoskins Eliz G 531-6098
B De Fabis
1103 Apartments
A Dunphy
B★Maclaughlin W H Jr 753-8383
1105 Apartments
A★Rodger Craig 756-3361
B Epsten
1106 Swinney E F School 968-4550
1107 Apartments
A★Kaiser John D 756-3304
B De Friece
1109 Apartments
A★Holland David 931-8323
B Ropfogel
1111★Bunting Henry S ◎ 561-2114
1115 Vacant
1117 Leiter Constance Inc 931-0960
1119 Forty Seventh Street Design Group designs 531-5711
1121 Terbovich Geo Design industrial design 753-1458
HOLLY ST INTERSECTS
1201 Vacant
1207 Moda Bell Salon total beauty salon 753-4454
1209 Adler Ran Flower Studio flower studio retail 561-4255
1211 Vacant
1214 Pearce Linda W antique dealer 531-6255
1215 Studio One hair salon 931-4750
1217 Puett Uel E ◎ 531-8092
MERCIER ST INTERSECTS
1303 Pat's Nail Saloon Inc beauty shop 931-9400
Stewart Pat A ◎ 931-9400
1307 Vacant
TERRACE ST INTERSECTS
1414 State Farm Insurance 753-4334
1415 Refound Furnishings preowned furniture rugs 531-1417
1417 Refound Furnishings (Addl Sp)
1421 Marcus Karen Interiors Ltd interior design 531-4252
LIBERTY ST INTERSECTS
1500 Apartments
1 Mills P E
2 Milne James H 561-5595
3 Vacant
4 Vacant
1502 Apartmnets
5 Vacant
6 Vacant
1507 Act Two discount boutique clo 531-7572
FAIRMOUNT AV INTERSECTS
WYOMING ST INTERSECTS
GENESEE ST ENDS
1700★Delisio Geo III 531-6596
BELL ST INTERSECTS
STATE LINE RD INTERSECTS

68-A

47TH TER E –FROM OPP 4722 LOCUST ST EAST

ZIP CODE 64110
LOCUST ST INTRESECTS
600 Buckingham Ruth G Mrs ◎ 931-8699
604 Mesmer Steph C ◎ 561-4877
608 Arnold Virginia ◎ 531-2397
612 Waller Jan ◎ 931-1736
625 Duensing Peggy 753-5399
ROCKHILL RD INTERSECTS
HOLMES ST INTERSECTS

94

FLORA AV INTERSECTS
1722 Vacant
1729 Vacant
1731 Vacant
1733 Vacant
1735 Vacant
1737 Vacant
1741 Vacant

132-A

WOODLAND AV INTERSECTS
ZIP CODE 64130
1802 Pautz Harvey W ◎
1803 Vacant
1804★Carter Recia J ◎
1810 Vacant
1811★Brown Debrie ◎ 923-7934
1812 Hickle Austin M ◎ 924-8831
1816 Vacant
1819★Ward Frank ◎ 923-2375
1820 Vacant
1821 Anderson J M ◎ 921-5527
1823 Davis Bobby ◎ 921-3777
1824 Vacant
1827 Jackson Landis H ◎ 861-7301
1828 Vacant
1832 Vacant
1833 Simpson Nina Mrs ◎ 923-5214
1834 Vacant
1836 Mc Carty Roger ◎ 923-7522
1841 Vacant
1844 Noles Vivian ◎ 861-3846
EUCLID AV INTERSECTS
2005 Vacant
2009 Johnson Don P ◎ 924-1840
BROOKLYN AV INTERSECTS

136

BENTON BLVD INTERSECTS
3702 Benton Manor Apartments 923-4795
100 Reed Ocie
101★Paige Clark
102 Turner Lillie M
103 Mill Brooks 921-0146
200 Vacant
201★Riddley Buddy
202★Nevins Barbara
203 Vacant
3703 Benton Manor Apts
Bsmt Eluster
101 Gilmore V L 923-1174
102 Benton Manor Apartments (Ofc) 923-4795
103 Dillard Burton
200★Lewis Hope
201 Hill J T 923-5203
202 Blank M Burch
203★Houtman Paulette 923-5397
3704 Benton Manor Apts 923-4795
100 Fairly Anna J 861-6297
101 Myles Linda
102★Collins Andrea
103★Murphy E
200 Jardon
201 Holiday Gladys
202 Mason Paula
203★James Kevin 923-5414
3706 Benton Manor Apts 923-4795
100★Fuel Yvette 923-7604
101★Morgan Bertha
102★Simmons C
103 Chinqege J
200★Jones Anthony 924-7817
201 Triplette Gladys E 924-3613
202 Jones Chas D 924-3547
203★Mc Kay Thelma 923-7859
3707 Benton Manor Apts
100★Dawar Sushil 861-2437
101★Carter A
102 Kelley M
103 Dowdy A
200★Hamlett R
201★Okeckukwa T
202 Parker Richd 861-3374
203 Holmes
3708 Benton Manor Apts 923-4795
100 Hughes Kenneth E 924-4168
101★Bradford Andrea 861-6242
102★Proctor M
103★Whittaker M
200★Miller F
201 Cato Pamela 923-4060
202★Olson M
203★Ambrus C
3710 Benton Manor Apts 923-4795
100★Bussey R
101★Wilson S
102 Jackson Jas W 924-7608
103 Anderson Isaiah 861-5133
200 Phillips Keith E 921-3415
201★Lewis M
202 Wilson David 923-4198
203★Peltier Clifford 861-2736
3711 Benton Manor Apts 923-4795
100★Jenkins P
101 Epps Wm E 861-7151
102★Bailey B
103 Vacant
200 Feilds Rubin 923-3205
201 Carter A Rosalyn 921-1495
202★Mason Linda
203★Gibbs M
3712 Benton Manor Apts 923-4795
100★Brown K
101★Lyles T
102 Phillip O
103★Coffey B
200 Irwin Jean 923-2865
201★Suttler J
202★Smith E
203★Wade L
CLEVELAND AV INTERSECTS

185

CLEVELAND V INTERSECTS
3800 Dukes Erma D ◎
3804 Johnson Richd ◎
3808 Hardley Hershell ◎ 923-4298
3812★Wright Kenya 921-5313
3900 Jordan Ideal ◎
3904 Littlejohn Alex ◎ 924-4566
3908 Brown Fred D
3912 Wesson Sammy ◎ 861-2322
3916 Oates Odessa ◎ 924-4281
3920 Rainey Henry L ◎ 861-6316
3924 Parker Charles 861-4792
3928 Norman John H ◎ 861-2348
3931 Estis Lee S ◎ 923-6672
3932★Thompson Rosalie ◎
3935 Oliver James ◎ 923-8854
3936 Minner Matilda ◎ 924-6921
NORTON CIR INTERSECTS

327

ZIP CODE 64129
6900 No Return
6950 Houpe Steve 861-1307
6954 Enfield Richd L ◎ 923-9230
6960 Brown Jeff L 921-0744
6964 Bagshaw Max ◎
6970 Monsees Key & Safe 924-7246
Monsees Gary ◎ 924-7246
PARK RD INTERSECTS

242

RICHMOND INTERSECTS
7600 Meier Ruby M Mrs ◎ 921-2824
7601 Mc Kinney Allis Mrs ◎ 924-9021
7605 Warden Helen I Mrs ◎ 921-3453
7608 Louis Pattie 861-0971
7611 Harter Greg ◎ 861-3834
7614 Mc Mahon Wm C ◎ 921-7286
7617 Connell Craig 861-4713
7618 Nance Eliz ◎ 924-4256
7623 Smith Louis E ◎ 924-5722
7624 Taylor Robert A 861-5117
PALMER INTERSECTS
7700 Guthrie Ralph ◎
7701 Vacant
7705 Vacant
7706★Dike Bill H ◎
7709 No Return

TP	Adjoining	Source
-	✓	R. L. Polk Co.

47TH TER E 1990

E 47TH TER–Contd
7710 Trader Jerry D ◎
7714 Crook Wilber L ◎
7715 Hale Paul ◎
7718 Allen Melvin R ◎ 921-0031
7719 Turner Richd D ◎ 921-9139
7800 No Return
7801 Dunn Joseph P ◎
7804 Marriott Jackie 924-5491
7805 Smith Clarence L ◎ 861-3152
7809 Sofia Jack D ◎ 923-8077
7812 Alig Edw C ◎ 921-9828
7815 Bawr Edw J
7816 Sullivan Robt L ◎ 921-4618
7819★Devers Paul L
7900 Morgan Thelwood ◎
7901 Howell Lee L ◎ 861-0820
7904 Blatt J S ◎ 921-0952
7905★Schreimann Bradley ◎ 861-5704
7908 Mc Anally Michl ◎ 861-7934
7909 Johnson Tom L ◎ 861-8445
7912 Edwards Joe W ◎ 861-6710
7915★Schmidt Mark O 921-4833
7916 Clawson Theo E ◎ 861-2248
7919 Werner John J
SYCAMORE INTERSECTS
8300 Giffin Clint ◎
8301 Wesner Ricky D ◎ 921-7491
8304 Brockman Virgil L ◎ 923-5035
8305 Brown David L ◎ 923-2362
8308 Vacant
8309★Wicklund D M 923-6736
8400 Leslie Ron ◎
8401★Snow Lenorard E ◎ 924-2973
8404 Vacant
8405 Hendricks Henry M ◎ 921-2493
8408 No Return
8409★Nelson Greg
WALLACE AV INTERSECTS
8500 Rindom Carol S Mrs ◎ 923-4830
8501★Adrian H L 924-6011
8502 Jackson Elza ◎ 921-8373
8505 Mc Henry Stanley ◎
8507 Vacant
8508 Sims John L ◎ 861-2241
8511 Clemens Ruby ◎
8512★Domerese Mitch D 921-5409
8515 White Maretta Mrs ◎ 921-7942
8516 Cunningham Frank E ◎ 924-4737

241

ZIP CODE 64133
STERLING AV INTERSECTS
11200 Cox Steven R ◎ 356-7946
11204 Cox Tracy E ◎ 353-1393
11207 Mc Mahon Michl G ◎ 353-5048
11208★Wahlen Howard C 737-2733
11211 Renner F Irene Mrs ◎ 358-1315
11212 Bellman Naomi Mrs ◎ 356-5335
11215 Kerby John E Jr 356-0409
11216 Stavig C E ◎ 356-4547
11219 Rice Joe L ◎ 353-4926
11220 Stevenson Warren L ◎ 358-1281
11223★Davidson John M ◎ 353-2982
11224 Hartman H Geo ◎ 353-4434
11227 Wait Herbert R ◎
CLAREMONT AV INTERSECTS
BLUE RIDGE BLVD INTERSECTS
12003 Knoche Louise H ◎ 358-4881
12005 Colbert John ◎ 353-0598
12007 Trujillo Jim ◎ 358-5360
12009 Lane John W ◎ 356-2359

362

47TH TER NE –FROM N CAMPBELL EAST

ZIP CODE 64116
N CAMPBELL ST INTERSECTS
1000 Ford Howard L ◎ 454-1152

375

ZIP CODE 64117
2600 Jones Jay T ◎ 455-0521
N ANTIOCH RD INTERSECTS
2603 Engle Clifford J ◎
2606 Patterson C L Mrs ◎ 454-9218
2607 Lowe Victor E Jr ◎ 453-1880
2610 Harra Mary V ◎ 454-7624
2615 Suppington Gary D ◎ 453-0377
2616 Durlacher David F ◎ 452-3393
2619 Crane Bill J ◎
2622 Clark James O ◎ 452-6556
47TH ST INTERSECTS
2700 Ams-Oil Synthetic Lubricants 454-0254
2704 Duffy Anne M Mrs ◎ 452-8031
2722 Whiteaker E Harold ◎ 453-4395
2727 Carey Merle 454-9734
2804 Auld Greta M ◎
2807 Rowland J L ◎ 454-8613
2810 Fantin Delia Mrs ◎ 452-5215
2814★Sieks Marty
2820★Obanion V 453-6176
N KANSAS AV INTERSECTS
2824 Stockett Steve
2828 Rogers Albert L ◎ 452-0777
2832 Stewart Alfred J ◎ 454-7742
NE GLADSTONE AV INTERSECTS
3201 Garrison Eric A ◎ 454-9010
3206 Latona Victor W ◎
3207 Ruckh Charles W ◎ 453-2645
3212 Shour Mary E Mrs ◎ 452-5622
3213 La Clair Dorothy ◎ 453-5913
3218 Moorehouse Chas L 453-1021
3219 Nordine Geo ◎ 452-0460
3224 Deghelder Jim L 453-4122
3225 Carriker Glenn A ◎ 454-1700
3231 Withrow C Ray ◎ 453-0748
3237 Gray Robt J ◎ 452-7175
N COLLEGE AV INTERSECTS

374

CHOUTEAU TRFWAY INTERSECTS
NE CHOUTEAU DR INTERSECTS
3500 Azzarelli Joeseph 452-4928
3501★Bash Fred L ◎ 459-9537
3504 Mc Clelland Gus ◎
3505 Tapp John B ◎ 452-6551
3506 Wasser Otha M Mrs ◎ 454-1374
3507 Bleyenberg
3510 Jenkins David O ◎ 453-7998
3511 Vogelbaugh Kenneth E ◎ 452-6523
3512 Rich Robt P ◎ 452-3174
3513 Smith Clifford G ◎ 452-7919
3516 Barton Wm R ◎
3517 Vacant
3518 Kaul Kenneth E ◎ 452-5831
3520 Larocca Jim R ◎ 453-6564
3521 Williams Charlie R ◎ 452-7713
3525 Corsentino Frank T ◎ 454-1114
N SHERWOOD DR INTERSECTS
3600 Williams Julian M ◎ 455-1650
3601 Duston Glen V ◎ 452-9205
3609 Vacant
3610 Regan Thos J ◎ 452-5138
3616 Wilkenson Peter B ◎ 455-0962
3619★Dobbelaere Art ◎
3622 Erbacher Thelma L Mrs ◎ 452-9389
3625 Larocca Frank J ◎ 454-6798
3628 Lo Porto Frank R ◎ 452-2186
3631 Vaughan Ray A ◎ 453-0469
3634 Vacant
3637★Russo Mary ◎
3640 Jackson Richd D ◎ 452-0141
3700 Weinzerl Chas L ◎ 452-8234
3701★Comisano Jerry ◎
3707 Shaw Robt E ◎ 453-3896
3708 Russo Vito S ◎ 453-6746
3713 Pernice Rudolph J ◎ 453-5840
3714 Rhodes Gerald L ◎ 454-6615
3719 Vacant
3720 Vacant
N CLEVELAND AV INTERSECTS

333

N ELMWOOD AV INTERSECTS
4530 Vacant
4600 Bingham Electric Co 455-0697
Bingham Electric ◎ 455-0697
4603 Finazzo Chas A ◎ 453-0649
4607 Whitfill Sharon ◎ 452-9375
4610 Vacant
4612 Diggs Glenn L ◎ 454-4963
4613 Rueckert Terry E ◎ 455-0896
4617 Thompson John ◎ 454-0161
4620 Rice Robt D ◎ 455-3587
4621 Vacant
4700 Wade Allan R ◎ 452-4360
4703★Cooper T M 454-5740
4707★Windle Stan 454-4726
4708 Vacant
4711 Kimball B Lucile Mrs ◎ 452-4680
4712 Jarman Geo
4716 French Janice 452-6206
4717 Vacant
4721 Loos Lynn E ◎ 452-2762
N LISTER AV INTERSECTS
4800 Frost Velma E ◎ 453-1716
4801 Boswell J G 452-1060
4805 Huckabee Ted ◎
4810 Barfoot Dennis ◎ 454-0788
4811 Moeller John R ◎ 453-7366
4814 O'Roark Mitch K ◎ 452-8727
4815 Brown Audrey M ◎ 454-4443
4818 Petree Jeffrey L ◎ 452-2436
4819 Murray Ronald ◎ 453-4955
4822 Gensheer Thos ◎ 453-0073
4823★Treso Eleanor 953-7447
4826 Andregg Michl T ◎ 455-3773
4827 Tumanut Vince 453-1196
4830 Yochim Betty A ◎ 452-5338
4831 Jones Rich 452-0313
N BRIGHTON AV INTERSECTS

380

N BRIGHTON AV INTERSECTS
5001 No Return
5103 Mc Coy Wm ◎ 454-7798
5106 Woolf
5109 Hake Timothy J ◎ 452-3379
5110 No Return
5114 No Return
5120 King John ◎
5121 King Earl L ◎
5200 Vacant
5220 Vacant
N DENVER AV INTERSECTS

68-A

48TH ST E –FROM 4800 GRAND AV EAST

ZIP CODE 64112
GRAND AV INTERSECTS
MC GEE ST INTERSECTS
301 Vacant
302 Apartments
1 Vacant
2 Vacant
304 Vacant
305 Vacant
308 Vacant
309 Vacant
311 Vacant
312 Apartments
1 Vacant
2 Vacant
3 Vacant
4 Vacant
313 Vacant
315 East Lake Apts apts
101★Muehl B 561-3349
316 East Lake Apts
1★Lutjen Gert B
2★Mc Inturff C Anthony
3★Bateman
4★Pinkerton P
5 Vacant
6★Abbott Lyle
317★Cook Gary 753-3877
ZIP CODE 64110
OAK ST INTERSECTS
LOCUST ST INTERSECTS
ROCKHILL RD INTERSECTS
HOLMES ST INTERSECTS
CHARLOTTE ST INTERSECTS
800 Vacant
802 No Return
805 No Return
808 Kiyose Yumi 561-3833
809 Jones Steve
811 Kennet C Leslie
815 Hartford Arms Apartments 931-1186
1★Brown Roberta 931-1186
2 Vacant
3 Vacant
4 Vacant
5 Vacant
6 Vacant
20 Vacant
21 Vacant
22 Vacant
23 Vacant
24 Vacant
25 Vacant
26 Vacant
27 Vacant
30 Vacant
31 Vacant
32 Vacant
33 Vacant
34 Vacant
35 Vacant
36 Vacant
37 Vacant
819 Hartford Arms Apartments
1 Vacant
2 Vacant
3 Vacant
4 Vacant
5 Vacant
6 Vacant
7 Vacant
8 Vacant
9 Vacant
10 Vacant
11 Vacant
12 Vacant
14 Vacant
15 Vacant
16 Vacant
17 Vacant
18 Vacant
19 Vacant
20 Vacant
21 Vacant
22 Vacant
23 Vacant
24 Vacant
25 Vacant
26 Vacant
27 Vacant
28 Vacant
29 Vacant
30 Vacant
31 Vacant
CAMPBELL ST INTERSECTS
901 Pulley Bros Inc whol florists 931-1312
909 Leary Kathleen 753-8505
913 Verbanic Donna
914 Burt-Frederick Inc prntrs 756-1240
915 Mostar Elisa
916 Middleton Apartments
101 Vacant
102 Nkembe Calista 531-6249
103 Vacant
104 Vacant
105 No Return
201 Vacant
202★Deaner Lisa R 531-0022
203 Vacant
204★Beldin Scott 561-7346
205 Vacant
917 Vacant
920 Vacant
922 Mosk-Masjid Muhammed Islamic Studies 561-6944
922½ Apartments
1 Homad Safuani 531-4086
2 Vacant
HARRISON ST INTERSECTS
1000 Vacant
1002 Fisher J C 753-3265
1004 Kaye's Rockhill Bar 753-9130
1006 No Return
1008 G & R Body Shop auto repr 531-8078
1016 No Return
1018★Bardanos Julio V
TROOST AV INTERSECTS

94

132-A

(NOT OPEN BET FLORA AV AND WOODLAND AV)
WOODLAND AV INTERSECTS
ZIP CODE 64130
1800 Gray Robt T 924-0665
1801 Watson Kimberly ◎ 924-2051
1803★Watson Valarie J ◎ 921-5810
1804 Vacant
1805 Cason Nathl M 861-3605
1806 Reams Donna ◎
1807 Newman Mildred T 923-2863
1809 Vacant
1810 Vacant
1811 Wright Willy F ◎ 921-8320
1814 Johnson Wm C ◎
1821 Vacant
1824 No Return
1826 Gibson Oscar J ◎ 924-4946
1827 Madden Wm B ◎ 861-5695
1828 Williams Ronnie ◎
1829 No Return
1830 Strother C ◎
1831★Williams Linda C 861-8679
1834 Mc Gee Lewis A Rev ◎ 924-5024
1836 No Return
1844 Preciphs John L Rev ◎ 924-6581
1845 Lolles Carl ◎ 861-6396
EUCLID AV INTERSECTS
2000 Coleman Glenda
2008 Tatum
2011 Duchardt Fredk A ind consultant ◎ 921-7022
2016 Duchardt Tom ◎ 924-2966
2020 Birmingham John D ◎ 921-6439
2022 Ruff Clifford 923-3324
2026 Ford Kenneth R ◎ 861-9237
2029a No Return
2029b Vacant
2041 Hilton Shirley J ◎ 923-3464
2045 Hardin Richd
BROOKLYN AV INTERSECTS
PARK AV INTERSECTS

185

4502 Peeler Larry L ◎
4510 Williams Tyrone A ◎
4516 Reese Cecil A ◎ 924-1548
ELMWOOD AV INTERSECTS
LAWN AV INTERSECTS
LISTER AV INTERSECTS

242

ZIP CODE 64129
RICHMOND AV INTERSECTS
7600 Duque Richard ◎ 921-2683
7601 Garcia Richd ◎ 861-1653
7605 Cartwright W C ◎ 924-6187
7606 Jenkins Tony D 861-0936
7609 Derks Earl A ◎ 923-7422
7610 Jackson Wm S ◎ 923-6356
7614 Mackey Richd L ◎
7618 Grissom Karen A Mrs 924-0527
PALMER INTERSECTS
7704 Ramsey Wilbert E ◎ 924-8763
7705 Wills Joyce L ◎ 923-7773
7710★Brown Linda L
7711 No Return
7716 Zimmerman Robt C ◎
7717 Givens James H ◎ 921-8484
7800 Zia Cleaning Service
De Vasher James R ◎ 924-7353
7801★Wilson Ricky D 923-3696
7806★French Walter R ◎
7807★Sanders G W 861-6603
7812 Wilson Robt C ◎ 924-1678
7813 Warfield Willie B
7816★Bratton R T
7817 Cretel Roland H ◎ 921-7278
7900★Mc Donald Charles W ◎
7901 Sanders Charles R ◎ 921-3236
7906 Rockers John J ◎ 921-4486
7907★Younts Alta ◎
7911★Allen Mary
7912 Weber Richd L home remodeler ◎ 923-7120
7915 Vacant
7916 Kelly Cliff ◎
7919 Smith Marilyn R ◎ 861-4281
7920 Cain Mark D ◎ 924-6784
SYCAMORE AV INTERSECTS

325

9604 Shelton Steven K ◎ 358-5751

241

ZIP CODE 64133
STERLING AV INTERSECTS
11201★Morrissey Frank W ◎ 353-8329
11205 Vacant
11206 Goodman Geo E ◎
11209 Schroeger Eulalia A Mrs ◎ 353-8910
11210 Johnson John R ◎ 358-9260
11214 Neece Pat ◎ 353-0139
11215 Matney Robt E ◎

TP	Adjoining	Source
-	✓	R. L. Polk Co.

48TH ST W 1990

W 48TH ST–Contd
1005★Kauffman Lois 931-9656
1006 Simms W Emmett 561-2647
1007 Winters Donald C 531-6063
1008 Tobin Helen Mrs 561-1624
1101★Kreager R W 561-4312
1102 Vacant
1103 Vacant
1104 Vacant
1105 Barnett Jeanette Mrs 531-7571
1106 Gordon Frances C Mrs 753-0643
1107 Vacant
1108 Stearns Leonard L 561-3595
1201 Vacant
1202 Vacant
1203 Vacant
1204 Vacant
1205 Carstarphen Bedonna 531-0366
1206 Vacant
1207 Garrison Hazel E 753-7105
1208 Brown Morten T 753-0777
1401 Vacant
1402 Thompson Dale M 561-1402
1403 Vacant
1404 Vacant
1405 Vacant
1406 Overbey Florence 931-8687
1407 Mc Neil Wm J Mrs 931-3467
1408 Morgan Sheridan 531-8859
1501 Vacant
1502 Vacant
1503 Vacant
1504 Riley A Everett 931-4747
1505 Vacant
1506 Vacant
1507 Chamberlain Louise B 753-3156
1508 Jensen Kenneth 931-3280
1601 Kelley Clarence M 561-5312
1602 Rieger Kath Mrs 753-1240
1603 Vacant
1605 Moore John A Mrs 753-7767
1606 Vacant
1701 No Return
1702 Wornall Frans B Mrs 561-5049
1703 Vacant
1704 Vacant
1705 Faeth Perry E 531-4959
1706★Jacobson John Jr 531-8822
1801 Vacant
1802 Quer Erich A 756-0021
1803 Gibson Geo E 931-1747
1804 No Return
1805 Hoffman Gladys Mrs 531-1723
1806 Nicholson Jas J 756-0371
1901 Vacant
1902 Vacant
1903 Ratley Sarah Mrs 753-6881
1904 Hudson Fannie Mrs 753-5038
1905 Davidson Hy Mrs 531-3666
1906 Fitzpatrick Francis J 531-4262
2001 Lewis Sylvia Mrs 753-1234
2002 Benjamin Alfred L 753-6537
2003 Pallett Harold A Mrs 753-1552
2004 Buchanan Shirley A 931-1706
2005 Hurwitt Irwin E 753-4433
2006 Ward Paul Mrs 531-0140
2101 Sullivan Wm Mrs 753-2828
2102 Scott John W 931-5417
2103 Mc Elroy Henry F 531-7307
2104★Pavlovsky John W 531-0020
2105 Liefer Jack 561-4335
222 Regency House (Back Entrance)
STREET CONTINUED

79

PENNSYLVANIA AV INTERSECTS
600 La Mediterranee (Side Entrance) 561-2916
601 Mister Guy retail clothing 531-3355
602 House Of Toy restr 561-9585
604 Better Cheddar The deli 561-8204
606 Taum Sauk Wilderness Inc outdoor wear & equip 531-5580
608 Catch Kansas City gift shop 753-7221
608½ Baskin-Robbins Thirty One Ice Cream Store 561-0462
610½ Mrs Field's Cookies bkry 756-2292
612 Vacant
614 Gourmet Grocer caterers 561-5888
620 Alaskan Fur Co ret 753-6555
621 Granfalloon Restaurant 753-7850
JEFFERSON INTERSECTS
700 Vanity Fair Condominiums
11★Rodarte Harry 561-5788
13★Anderson F F 756-0779
14 Vacant
15 Davis
16★Finter Steven 756-1874
21 Tourtillott
22 Vacant
23★Smykowski Richd 753-3920
24★Fording Jeffrey A 753-2022
25 Tucker
26 Shiveley
31 Seefeldt
32 Sprouse
33 Vacant
34 Le Blanc
35 Anderson Donald W 756-0779
36 Vacant
708 Cottesbrook Apartments
19 Brotherton
20★Eistner Chas L 753-3973
21★King Glen 931-2814
101 Vargas P A 531-3284
102★Balentine Barry L 531-0306
103★Guy Terry 561-8317
104★Troughton Holly 531-0170
105★Starr Blair 931-0493
106 Fogt-Moore
201 Hall Frances M 531-8851
202 Freeman
205 Tertichny B A 531-6313
206 Barnes
301 Kingsley
305 Pollard Chas E 753-3380
306 Parkhurst
712 Cezanne Apartments
101 Vacant
102 Vacant
103 Yawn Wilma G
104 Foley J L 561-3908
201 Doshi Girish 931-5621
202★Bates Carol 531-8048
203 Vacant
204 Vacant
301 Vacant
302 Vacant
303★Biniki M E 531-0626
304★Blackman Robt 561-5438
401 Miller Carrollyn B 931-4155
402 Wahl L J 531-4360
403 Duckett H P Jr 753-7942
404 Vacant
501★Danforth E 931-1407
Bsmt★Tracewell Nancy 931-8312
720 Rousseau Apartments 931-5855
101 Poe Thos G Rev 561-4528
102 Davis Virgil H 753-6019
103 Smith M 561-5609
104 Mc Donough K A 931-2946
105 Stephenson Sarah 531-8420
201★Campbell Klas J 753-7290
202 Vacant
203 Cole Katherine E 756-2469
204★Garper R D 931-9239
205 Vacant
301 Stoner Beth 531-4787
302★Hendrickson A 931-0779
303 Vacant
304★Schumaker G 531-1390
305 Vacant
401★Pillsbury Douglas T 931-0723
402 Wien Wm 753-0416
403 Vacant
404 Vacant
405 Sowers Z M 531-7793
501 Butler Jane B 561-9592
502 Bennett Helen L 753-6431
503 Gough Cindy 561-1263
504 Vacant
505 Brumitt Lee 931-2262
SUMMIT ST INTERSECTS
803 Churchill Apartments The 931-9787
101★Foster Vivian P Mrs
102★Kimberley M P 561-2172
201 Merchant M A 561-0349
202 Houserman D F 561-1805
203 Green Helen S 931-0357
204 Wolfberg Alice 531-7305
205 Bartlett M 531-6252
206 Vacant
301 Cohn Gary N 561-1264
302 Rammeleyer A S 531-0738
303 Vacant
304 Vacant
305 Vacant
306 Berlau Ruth M Mrs 753-1353
401 Dulle A M 561-5316
402 Phipps Barbara 756-1996
403 Vacant
404 Scharff Ida L Mrs 753-5720
405 Repass Dorothy L 931-1169
406 Green Carole 531-5663
501 Hegner Catherine B 531-6383
502 Silvers A L 561-8361
503 Strom Robert 756-1996
504★Markus Michl 561-7113
505 Erickson Helen E 753-0649
506 Nunn Robert 756-0625
601 Levin Goldye S 561-5436
602★Safos Basil C 931-4547
603 Vacant
604 Vacant
605 Lefever Gregory 931-2869
606 Vacant
701 Tracey L C 931-0475
702 Vacant
703★Shichk Urban A 531-5340
704 Kelley Thos D 931-5793
705 Shaw Arnold C 561-4448
706 Curzon Herman O 753-0153
801 Vacant
802 Barlow Sandra 753-4855
803 Bates James T 753-2779
804 Smith Emily L 561-4019
805 Vacant
806 Canfield A 561-1990
901 Tomecal Joseph T 753-7145
902 Meshcon M M 531-8374
903 Vacant
904 Vacant
905 Shimshak Thomas M 931-9895
906 Vacant
1001 Alton Pauline M 931-5818
1002 Siegel Peter S 561-6817
1003 Williams Barney R 753-1290
1004 Vacant
1005★Watson F 753-1778
1102 Vacant
1103 Cook Helen E 753-2807
1104 Seay Bernard 531-4589
1105 Havenor Linda R 753-2152
1106 Maddux V S 531-5958
1201 Wirt Joseph M 531-8318
1202 Norris Cleo O 561-5235
1203 Vacant
1204 Vacant
1205 Vacant
1206★Dobyns Doris E 931-4882
804 Copperfield David Apartments 531-5370
101 No Return
102★Jeffrey Julie 561-5953
103 Vacant
104 Lindsey Algerta 561-8773
105 Vacant
106 Hart Teresa 753-3629
201 Berkey Esto R 531-5370
202 Cornfield David 753-4873
203★Speer Kathleen 753-3629
204 Hibbs Ruth E 561-0464
205 Vacant
206 Harms Ruby 561-9811
301 Seigfried Jas T Jr 561-6881
302 Pond Carl R
303 Schramm Dean 753-3135
304 Vacant
305 Lawrence S 931-7970
306 Vacant
807 Field Eugene Apartments 561-2538
101 Wrobel
102 Vacant
103 Arnold
104★Whitlock C
201 Miller
202 Harlan
203 Grantham
204★Ward L
301 Williams James E 561-1465
302 Dillman
303 Sarvis
304★Borwn D J 753-2472
401 Rosenhaupt Julian M 931-1755
402 Silbersek
403 Smith
404★Gilbert Kent 561-7891
501★Neiderhauser T 931-0671
502★Drinkwine Arbor 753-2512
503★Goldstein Bruce 753-3218
504 Schmidt Elaine H
601 Donahue
602 Caron
603★Higgins Gary 561-8994
604★Hanson K
703★Rousseau M 561-2099
704 Doerr
906 Mc Dowell J Mark 756-1367

79-A

ROANOKE PKWY INTERSECTS
910 J J's Bar & Grill restr 561-7136
911 Park Manor Apartments
98 Vacant
103★Escriba P
104★Basudde S
105 Ellis Linda 561-7732
201★Lara S
202 Giokaris Virginia S 531-3804
203 Vacant
204★Connelly K
205 Nabil
301 Vacant
302 Vacant
303★Owings M 753-8145
304 Vanberg
305 Osterloh E K 531-8585
916 Plaza West Hair Designing barber shop 931-0825
917 Park Manor Apts 931-3978
99 Vacant
100 Swinney
102★Nesbit Lois 753-2681
103 Vacant
104 Vacant
201 Busquets
202★Snider Amy
203★Wilson Don E 531-7543
303★Trapp E
304 Hardin
920 J J's Bar & Grill (stge)
922 Frank's Barber Shop (Stge)
BELLEVIEW AV INTERSECTS
JARBOE ST INTERSECTS
1★Adams Jas S
2★Burns
3★Donahue
1114★Glen Chas W 561-4437
1118 Baker Joe 531-8240
HOLLY ST INTERSECTS

HOLLY ST INTERSECTS
1200 Wendling Brian D 561-4695
1201 No Return
1204 No Return
1205 Vacant
1206 Stoetzer Jerome P ◎ 531-5767
1210 Turner Michl G ◎ 753-5444
MERCIER INTERSECTS
1301 No Return
TERRACE ST INTERSECTS
1410 Smith Andrew W 931-2955
1412 Vacant
LIBERTY INTERSECTS
1414 Chiles Josephine A ◎ 561-4112
1432 Apartments
1 Rader Lee L 753-4874
2★Womack Greg 531-4605
FAIRMONT AV INTERSECTS

94

48TH TER E –FOM FLORA AV EAST 1 NORTH OF E 48TH

ZIP CODE 64110
1517 Apartments
1w Vacant
2w Vacant
1519 Apartments
1e Vacant
2e Vacant
1w Vacant
1523 Apartments
1e Vacant
2e Vacant
1525 Apartments
1w Vacant
2w Vacant
1527 Apartments
1e Vacant
2e Vacant
2w Vacant
1w Vacant
1535 Vacant
1537 Vacant
1539 Vacant
1707 Vacant
1711 Apartments
2nd Fl Vacant
1st Fl Vacant
2d Fl Vacant
1st Fl Vacant
1719 Vacant
1723 Vacant

132-A

WOODLAND AV INTERSECTS
ZIP CODE 64130
1801 Budine Alex E ◎ 924-8951
1805 Rehberg John M ◎ 923-0150
1809 Lindquist Eva ◎ 921-0964
1810 Vacant
1817 Sharp Howard M ◎ 923-2387
1825 Apartments
1st Fl No Return
2d Fl Vacant
3d Fl Vacant
Bsmt Davis Howard
1830★Mc Kissick Paul L ◎ 924-8094
1831 Hunter Ella
1837 Vacant
1842★Robinson Chas ◎ 921-0131
1847 Franklin S L ◎ 861-3298
1848 Watson Claudette
EUCLID AV INTERSECTS
2000 Buford Barbara J Mrs ◎ 861-1280
2001 Powell Esther Mrs ◎ 444-5900
2006 Harbison James D ◎ 921-2012
2007 Elliott Tim ◎
2010 Harbison Mary A 924-1538
2014 Owings Larry D ◎
2020 Spencer Marion J ◎ 923-7612
2021 Hooker Mae E ◎ 861-1381
2023 Brooks Darren E ◎ 861-2245
2024 Vacant
2026 Emory Mancie ◎ 861-8322
2030 Vacant
2031★Vaughn Gloria D 923-8751
2034 Jenkins T ◎ 923-2414
2035 Reliford Dorothea 861-5244
2041★Evans Rachelle ◎ 924-6980
2044 Collier T C ◎ 924-6819
BROOKLYN AV INTERSECTS (NOT OPEN BET BROOKLYN AV AND PARK AV)
PARK AV INTERSECTS
WABASH AV INTERSECTS

327

ZIP CODE 64129
ARARAT DR INTERSECTS
7106★Samuels Terry L ◎ 921-7972

242

RICHMOND AV INTERSECTS
7600 Abney G Wm ◎ 921-4439
7601 Caylor Richd D
7604 Escagne Paul ◎ 921-1581
7605 Vacant
7608 Vacant
7609 Casey Ron ◎
7612 Sieker Williams D
7615 Rich Pearl D ◎ 924-7119
7616 Bauer Philip P ◎
7619 Ireland Dennis R ◎
PALMER INTERSECTS
7700★Dold Jack D ◎
7701 Turowsky Stanley ◎
7704★Robertson C 923-8014
7705 Edde Oral L ◎
7708 Weir Edmond V ◎ 861-2136
7711 Black Winona L Mrs ◎ 861-4493
7714★Hackett Mark F ◎ 861-1603
7715 Grady George R ◎
7800 Hollandsworth Judy S Mrs ◎ 861-5350
7801 Grimes Charles A ◎ 861-9189
7804★Mc Neel S M ◎ 923-5902

TP	Adjoining	Source
-	✓	R. L. Polk Co.

PALMER DR 1990

216

PALMER AV –FROM E 16TH SOUTH

ZIP CODE 64126
E 16TH ST INTERSECTS
E 16TH TER INTERSECTS
E 17TH ST INTERSECTS

247

ZIP CODE 64133
E 74TH ST INTERSECTS
7409 Burton Eug ◎ 358-4046

418

ZIP CODE 64138
E 93D ST INTERSECTS
9300 Gengler P A ◎ 761-8065
9301 Mc Coy Herbert M ◎ 763-6737
9304 Mc Farland Michl R ◎ 765-2545
9305 Martin Patricia A Mrs ◎ 765-7467
9306 Vacant
9307 Peters James R ◎ 761-2407
9308 Mc Gee Charles Jr ◎ 966-0807
9309 Madrigal
9310★Stephens Ronnie M 765-1715
9311 Duckworth Steve ◎ 966-9489
9312 Menke Robt V ◎
9313 Green Josephine H Mrs ◎ 761-7309
9314 Marshall Roy ◎ 763-8203
9315 Speckels Harry E ◎ 763-8707
9316★Easley Garry 966-9051
9317 Bates Richd D ◎
9318 Brennon J ◎ 763-8021
9319 Craig Charles E ◎
9321 Brantner Stanley J ◎ 966-8316
9400 Alpough Peter C ◎ 765-8059
9401 Moorehead Arth E ◎ 763-8409
9402 Smith Whitney A ◎ 761-7730
9403 Mason Marvin M 763-8739
9404 Mc Cune Don ◎ 765-2424
9405★Bruner Diana J ◎ 761-2537
9406★Bateman Richd G ◎
9407★Snedden Tammy J 765-3257
9408★Burnett Nellie R 763-8091
9409 Thurman Teresa Mrs ◎ 761-9300
9410 Pierce Agnes P Mrs ◎
9411 Nelson Alan C ◎ 765-3398
9412 Johnson Homer I ◎ 966-0084
9413 Wates L ◎
9414 Stitt Wayne ◎ 763-4810
9416★Rogers David ◎ 761-9647
9417 Plummer Anderson D ◎ 761-4076
E BANNISTER RD INTERSECTS

422

ZIP CODE 64134
E 103D TER INTERSECTS
10300 No Return
10301 Rusk John D Mrs ◎ 763-4210
10304 Villareal J 765-4021
10305 Arechigo Barbara J ◎ 765-6974
10308 Babylon Wilma C ◎ 761-2887
10309★Atwood Gary L ◎
10312 Harrington L Jean Mrs ◎ 761-2663
10313 Jones Virgil C ◎ 761-2303
10316 Polson Larry E ◎ 761-1831
10317 Underwood R B ◎ 765-3205
10320 Cooper Gladys Mrs ◎ 763-5981
10323 Hummel Robt E ◎ 761-5656
10400 Anschutz Harry W ◎ 761-8637
10403 Leake Keith R ◎ 761-5499
10406 Green Calvin V 761-2872
10409 Newhouse Richd L ◎ 765-6952
10410 Wheattey Wm ◎ 765-3622
10413 Dent Hazel C Mrs ◎ 761-3689
10414 Louthain David A ◎ 761-4573
10419 Ross Robt G ◎ 761-8132
10420 Dunn Robt L ◎ 763-6023
10423 Russell Lyndell 761-3013
10424 No Return
10427 Olney Chas B
10428 Mc Mannis Don W ◎ 765-7591
E 105TH ST INTERSECTS
10501 Law Kent A 763-0773
10505 Pope L R ◎
10506 Pritchett Larry G ◎ 765-4630
10509 Spry Gary W ◎ 763-2113
10510 Carr Phyllis ◎ 761-7264
10511 Harp Ronald G ◎ 763-0878
10514 Arbogast Sharon
10515 Acers Robt genl contr ◎
10518 Atkins Thos M ◎ 761-4967
10519 Duggar Lloyd M Jr pntr ◎ 763-0543
10521 Kasinac Frank ◎ 966-8520
10522 Martin Doug ◎ 765-4305
10526 Hurd Gary ◎
10527 Largent Robt ◎
10530★Ross John D
10601 Campbell Wayne E ◎ 763-0292
10602 Bass Chas H ◎ 761-7147
10605 No Return
10606 Johnson Jim D
10608 Morgan Wm P ◎ 763-5861
10611 Jones Michl ◎ 763-9008
10612 Lombardino Charles ◎ 763-2795
10615★Haugh Brian
10616 Foland Wayne R ◎ 761-6010
10619 Gouldsmith Ronald S ◎ 761-7758
10620 Foland H E ◎ 966-0333
10623 Heckathorn Virgil W ◎ 763-3865
E 107TH ST INTERSECTS

426-A

RUSKIN WAY INTERSECTS
11202 Stringberg David A ◎ 761-1874
11203 Gress Scott 765-8774
11204 Mountjoy Patricia E ◎ 966-9363
11205★Zilch J ◎ 765-1126
11206 Hobbs Larry L ◎ 763-2626
11207 No Return
11208 Rookstool Lawrence H ◎ 761-0187
11209 Dewhirst G E ◎ 763-8979
11210 Vacant
11211 Laws Lester Jr ◎ 763-4259
11212 Murrell Teri 765-0071
11213 Burbey John E ◎ 761-1761
11214 Alvarado Ben ◎ 763-1726
11215 No Return
11216 Nichols Gilman F ◎ 761-3893
11217 Althouse
11218 Myers Kiley K ◎ 966-1775

247

11219 No Return
11220★Rose Donald T 761-1192
11221 Vacant
11223 Johnston Rick ◎
11225★Hood Jas R ◎ 763-8382

418

E 114TH ST INTERSECTS
11400 Vacant
11401 Murphy Christopher T ◎ 765-7705
11402 Ragsdale Sean 763-4099
11403 No Return
11404 Howard David K ◎ 761-3327
11405 Ransburg Robt
10406 Fredrick Brad ◎ 761-2872
11407 No Return
11408 Singleton Gordon A ◎ 761-3339
11409 Boerger Leonard N ◎
11410 Burnett H Geo 761-9224
11411 Beckett John W ◎ 761-9540
11412 Steele Jerry L ◎ 761-1791
11413★Allen Tom J ◎ 761-3662
11414 Snow Donald R ◎ 765-0741
11415 Curliss Edw L ◎ 761-6139
11416 Miller Gary ◎ 763-4204
11417★Elbert David A
11418 Vacant
11419 Miller Fred 763-1767
11420 Olewine Alberta Mrs ◎ 761-5695
11421 Thomas E 761-8931
11422★Vestal Floyd A ◎ 765-8142
11423 Kenney C ◎ 761-0568
11424 Bishop Norma ◎ 761-2112
11425 Gann Justin ◎ 765-5644
11426 Alumbaugh Carl G ◎ 761-8569
11427 Brown Bill G ◎ 763-0684
11428 Martin Chas Rev ◎ 763-9683
11429 Workman Hobart F ◎ 761-4628
11430★Wheat Larry E 966-2928
LONGVIEW RD INTERSECTS

608-A

ZIP CODE 64134
LONGVIEW RD INTERSECTS
11500 Patton Murl ◎ 966-9219
11501★Adams Ann G 767-2359
11502 Blue John A Jr ◎ 765-0258
11503 Douglas Robt ◎
11504 Allen John D ◎ 761-8980
11505 Vacant
11506 Vacant
11507 Ross Anderson ◎ 765-0853
11508 Mc Dowell Harold ◎
11509 Perkins Harold G ◎ 761-8936
11510 Washington Arth ◎
11511★Bacon Anthony 765-8993
11513★Galbreath C 763-6714
11514 Vacant
11515 Juedeman Ronald L ◎ 763-1617
11519 Hambrick Haywood L ◎
11520★Bailey Glenda P ◎ 761-6474
11521 No Return
11600 Hall Lloyd Jr ◎
11601 Talbert Blachard F ◎ 966-8672
11604 Gregory Jas ◎ 966-8166
11605 Jones Chester L ◎ 966-8175
11607 No Return
11608 Edmonds Albert V ◎ 763-8664
11609 Vacant
11611 Hamlett Robt R ◎ 763-1834
11612 Jefferson
11615 Fuqua Allen D ◎ 765-7829
11616 Nicholson Worley H ◎ 765-0884
11618★Danna Nick ◎ 733-2417
11619 White Richd ◎
11620 Johnson
11622 Vacant
11624 Smith Betty ◎ 761-4106
11625 Kennedy Thos J ◎ 966-9045
E 117TH PL INTERSECTS

328-A

PALMER AV N –FROM N 51ST TER NORTH

ZIP CODE 64119
NE 51ST TER INTERSECTS
5112 Hinkle Francis E ◎ 455-0481
5116 Ballenger James C ◎
5120 No Return
5123 Vacant
5124 Cowden Leslie A ◎ 453-1572
5128★Bailey Sharon 454-8268
5129 Reusch Harold Ray ◎ 454-0398
5132 Osborn Lester L ◎ 453-7576
5133 Purtle Ora ◎ 454-3730
5136 Olvera Thelma N ◎ 453-5693
5137 Frank Thos ◎ 459-7544
5140 Violett Vernon W ◎ 452-9037
5141 Purtle Norman M ◎ 453-0914
5144 Bagby Walter L ◎ 452-3362
5145 Cockrum Roger D ◎ 454-2140
5148 Hensley Gary ◎
5149 Donovan Wayne C ◎ 453-7006
5152 Buckley Darlene J ◎ 454-0796
5153 Belt Thos J ◎ 452-8020
5200 Bless Lawrence E ◎ 454-5529
5201 Stewart Harold D ◎ 452-2643
5204 Chennault Joe E ◎ 455-0028
5205 Ford Robt E ◎ 453-4050
5208 Steffen Richd O ◎
5209★Evans P L 454-4022
5212 Stephan
5213 Gemmer Mark C ◎ 452-5991
5216 Mistler Rodger G ◎ 454-7465
5217 Baker Theron C ◎ 452-2718
5220 Schumacher Arth J ◎ 453-5388
5221 Vacant
5224 Walters Wm E ◎
5225 Pace Glenn R ◎ 453-7901
5228 Fitzpatrick Tom ◎ 453-4977
5229 Green Connie L Mrs ◎ 453-7988
5232 Chisam Wm K ◎ 453-5747
5233 Rodgers Wm W ◎ 454-8681
5236 Chaszar Jas R ◎ 454-4636
5237 Vacant
5240 Fost James 453-4744
5300 Carpenter Wm R ◎ 453-6378
NE 53D ST INTERSECTS
5301 Elkins June Mrs ◎
5306 Vaughn Paul ◎ 453-1172
5309 House Floyd A ◎ 454-0543
5310★Andrews Joe
5314 Van Gordon Frank ◎
5315 Trahan Mary J ◎ 452-6770
5318 Romine Patrick J ◎ 452-9044
5321 Palmer J A 454-5743

328

NE 53D TER INTERSECTS
5328 Leone Joe L 452-5289
5329 Meinhardt Joseph 454-9111
5335 Gregoire Jim L ◎ 452-4023
5336 Hall Richd
5339 Vacant
5342 Evans Brad ◎ 454-6886
5347 Gust Rickie ◎ 455-4544
5348 Lee C Douglas Jr ◎ 454-9544
5353 Renfro John A ◎ 455-1492
5354 Kingsolver Dennis E ◎ 454-2868
5358★Claycomb Curt L ◎ 454-0974
5359 Spraggs David L ◎ 453-4140
5364 Vacant
5365 Licata Sam P ◎ 452-8699
5368★Blasher Sherri 452-7772
5369 No Return
5374★Bergloff Tyrone 453-1756
5375 Majors Geneva ◎ 452-9278
5379 Vacant
5380 Jones Frank M ◎ 452-0846
5383 Crain Jerry W ◎
5384 Seifers O Wayne ◎ 454-4083
5388★Foley Chas E 455-4266
5390 Witte Conrad G ◎ 452-2157
NE GRACEMORE DR INTERSECTS

242

PALMER DR –FROM 4731 OZARK RD SOUTH

ZIP CODE 64129
4733 No Return
E 48TH ST INTERSECTS
4800 Taylor James ◎ 924-7505
48TH TER INTERSECTS

242-A

51ST ST INTERSECTS
5100 Zink Stan D ◎ 861-8372
5101★Demoss Francis 923-8690
5106 Dumas Henry E ◎
5109 Downey Frank L ◎
5110 Jensen Vern ◎ 921-3921
5114 Vacant
5117★Stears Frank J
5118★Edde Kim M ◎ 924-3913
5122 No Return
5125★Mehr Damon E 861-5957
5130 Vacant
5131 Porter Annie G ◎ 921-4758
5134 Wesley Jas 924-8314
5135 Kissee John A ◎ 921-9670
5138 Conard Darline H ◎ 924-4660
5139★Cable L S ◎ 861-0435
5142 Galbraith Jimmie 924-4610
5143 Smith Ken R ◎ 923-2655
5147 Schowengerdt Calvin E ◎ 923-3861
5148 Murray Betty J Mrs ◎ 924-6424
5151★Wells Steve O ◎
5154 Huff Leonard J ◎ 861-7762
5155 Bandy Bernice G Mrs ◎ 924-6988
5157 Harbert Marjorie J ◎ 921-9500
5159 Sullivan Ralph F ◎
5160 Chambers Tom D ◎ 923-6715
5161 Wissinger Jerry ◎ 921-1208
5163 Eve Lovena ◎ 921-3349
5164 Neeley Leonard L ◎ 923-8716
5165 Reid Carrol D ◎ 921-1712
5168★Bai Geo Z
5169 Stone Renae ◎
5172 Pierce Forest L ◎
5173 Shelton June I ◎ 921-4832
5177★Sanders B G 923-3789
5200 Stephens Ken ◎ 923-7465
5201 Hawes Eug ◎ 923-4587
5205 Boone Don A ◎ 861-2558
5206 Mc Kinney Robt H ◎ 923-0015
5209★Armstrong Larry
5210 Burton Jerry J ◎ 923-4009
E 52D ST TER INTERSECTS

326

5612 Pearson Norma L ◎
5613 Pickens Bessie L Mrs ◎ 921-5356
5618★Rose Arthur L
5619 Pearson Joseph W ◎ 921-8415
5624 Pearson Elvin B ◎ 923-4496
5625 Jackson Jimmie W ◎ 923-8006
E 57TH ST INTERSECTS

238

PALMER ST –FROM 7800 US HWY 40 SOUTH

ZIP CODE 64129
E 33D INTERSECTS
3305 Bunker Hill Trailer Park 921-5904
★Johnson John
3307★Meyers Dennis
3309 Fernandes Dennis ◎
3310★Durbin Mike
E 33D ST INTERSECTS
3311 Walker John ◎ 923-1425
3313 Dremnan Hubbie ◎ 861-0328
3315 Drennan Caroline
3317 Collins Charles
E 33D TER INTERSECTS
3319 Vacant
3328 Vacant
3330 Thomas Georgia ◎
3332 Phelps Richard ◎
3334★Mulkey Roy
3336★Hernandez Roberto 923-3037
3338★Hunt James
3340 Cleveland Fern ◎ 921-6442
3342 Thomas Helen ◎
3344 Gorman John A ◎ 921-8672
E 34TH ST INTERSECTS
3432 Murray James
3433 Vacant
3434 Vacant
3437 Moore Thomas ◎
3438 Mansfield Brad ◎ 924-4341
3440 Vacant
3442★Alexander Cliff
3502★Neely Cliff
3503 Thompson Clarence E ◎ 921-3097
3504★Winfrey April
3506 Moore John
3507★Starr John 924-2378
3508 Vacant
3509★Hightower Leroy
3510 Caldwell Christina 921-8642
3511 Vacant
3514 Wealot Dorathe Mrs ◎ 861-7238
E 36TH ST INTERSECTS

238

PALMER TER –FROM 1 BLK EAST OF E 35TH EAST

ZIP CODE 64129
3306 Bunker Hill Trailer Park 921-5904
Vacant
3308 Maddox Nic
3310 No Return
3312★Hatfield Ray
3314★Nguyen Aghia
3316★Edmonson Rich
3318★Miller Hazel
3320 Mc Cain Clyde ◎
3330 Caldwell Lorraine
3417★Wilton Thos
E 34TH ST INTERSECTS
3419 Rashleger Orville F
3421★Marek Angie
3422 Lewis Linda ◎ 924-4099
3423 Vacant
3424 Fikes Lenn
3425 Long
3426 Basham Kenneth ◎ 924-8313
3427 Prater Jim
3428 Kain Jeanette ◎
3429★Wooden Keith 921-9108
3430 Rogers Tom ◎
3431★Fonseca Veronco
3432 Pallard Medge 921-7991
3433★Haskew Bill
3434 Barnes James
3435★Raines Debbie ◎
3436 Vacant
3437 Swift Zonya 921-6051
3438★Pippln Lee
3439 Moorefield Dicky ◎
E 35TH ST INTERSECTS
3441★Sales Dwight
3443★Garver Jeff
3500 Greenhaw Leonila O Mrs ◎
3501 Floyd Luther ◎
3503 Kelly Lisa S Mrs
3504★Anderson Fran ◎
3505 Cunningham Wayne ◎
3506 Vacant
3507 Lawson Vera
3508 No Return
3509 Hutchinson David ◎ 924-2894
3511 Vacant
3513 Vacant
E 36TH ST INTERSECTS

220

PALOMA ST –FROM OPPOSITE 3038 DRURY AV EAST

ZIP CODE 64128
5501 Vacant
5500 Marchbank Deborah L ◎
5505 Campbell Camey
5506 Mc Intyre Robt ◎ 921-9564
5508 No Return
5510 Yeakey Paul ◎ 921-2341
5515★Hart Jessie M 921-6326
5522★Sisney Darrell
OAKLEY AV INTERSECTS
5600 No Return
5601 Mitchell Floye A Mrs ◎
5605 Tapley Terry 923-4346
5606 Schmid Thelma M 924-7582
5608 No Return
5609 Vacant
5611 Riggs Wm W ◎ 861-0829
5612 Studyvin Thos R ◎ 861-2548
5615 Badger Maurice ◎
5619★Wiley Durward ◎ 924-7540
5621 Woodward R C Construction Co 924-8280
Woodward Robt C Jr ◎ 924-8280
5624 Vacant
5625 Riggs Emmett W ◎ 923-0953
5627 Vansell Larry W ◎ 861-3703
5633 Pearl Floyd W ◎ 924-1669
5636★Nelson Chris K
5640 Nichols Helen R
5641 Cunningham Donald D ◎ 924-6334
5714★Schoonover Gary R ◎
TOPPING AV INTERSECTS

TP	Adjoining	Source
-	✓	R. L. Polk Co.

RICHMOND AVE 1990

216

RICHMOND AV –FROM E 16TH ST SOUTH 1 BLK EAST OF OAKLAND AV

ZIP CODE 64126
E 16TH ST INTERSECTS
E 16TH TER INTERSECTS
E 17TH ST INTERSECTS

242

ZIP CODE 64129
OZARK RD INTERSECTS
E 47TH ST TER INTERSECTS
4726 Riddle James E Jr ◎ 921-2262
4730 Smith Gregory K ◎ 923-3538
4734 No Return
4738★Peace Bob ◎
E 48TH ST INTERSECTS
4800 Vacant
4804 Rendon Phillip D ◎ 924-6067
4808 Morrett
4812 Neuhalser John ◎
4816 Elkins Paul L ◎ 921-5572
4824 Ellington Ralph R ◎
E 48TH ST TER INTERSECTS
SNI-A-BAR RD INTERSECTS

244

ZIP CODE 64133
6315 Burkholder Ed L ◎ 353-3829
6319 Graham David L ◎
6320 Spruill Tom B ◎ 353-5828
6323 No Return
E 64TH ST INTERSECTS
6404★Martinez Mark 737-1324
6407 Vacant
6418 Whittemore Frank
6420 No Return
6424★Bovee P ◎ 737-3641
6432 Nelson Lawrence C Jr ◎ 356-3027
E 65TH INTERSECTS
6500★Hadley Joseph E 356-6247
6501 Hayes Marie R ◎
6503 Strong Ed ◎ 356-7864
6505★Yales Pete 358-7196
6507 Stellhorn Matilda ◎ 356-1218
6513 Yates James T ◎ 353-7179
6524★Cockrum Richd 737-2582
6601 Ames Lester ◎ 356-5821
6603★Reynolds Dennis ◎ 358-4586
6605 Hicks Sandy Mrs ◎ 353-5091
6609★Wilkinson Wm L ◎ 356-9458
6615 No Return

E 67TH ST INTERSECTS
6706 Mc Carthy Jeannine ◎
6707 Harter Harry T ◎ 358-8113
6708 Sinclair Michl A ◎ 358-6105
6709 No Return
6710 Vacant
6711 Queen Donald R ◎ 353-1471
6714★Berry Roxanne A ◎
6716 Boone P J ◎ 353-4009
6720 Kroger Richd D ◎ 358-0887
6723 Vacant
6725 Smith Robt Lee ◎ 353-6778
Smith Kerry 353-6959
E 68TH ST INTERSECTS
6800 Weber Herman ◎ 356-8518
6801 Northern Ozell ◎ 356-5609
6802 Smith Ross ◎ 737-3067
6804★Cargill M J
E 69TH ST INTERSECTS
6900★Zollars Donald C ◎ 356-9979
6901 Knotts Lawrence ◎
6902 Jones C R ◎ 358-0716
6903 Stevens Robt J ◎ 353-3273
E GREGORY BLVD INTERSECTS
E 70TH TER INTERSECTS
7020 Life Tabernacle First United Pentecostal Church 737-2670
E 67TH ST INTERSECTS

247

E GREGORY BLVD INTERSECTS
7144 Jones Robt L ◎ 356-4183
HULLWOOD AV INTERSECTS
7200 Robinson Vernon L ◎
7204 Davis Lyle C ◎ 737-0262
7205 Spangler F Earl ◎ 353-2374
7208 King Paul G ◎ 353-6836
7209 Robertson K Kenneth ◎ 353-7233
7211 Brown Jas H ◎ 353-6185
7212 Conrad Charles M ◎ 353-8942
7215 Ralls Willard F ◎ 358-9722
7216 Smith Mylin C ◎ 353-5247
7220 Jordan Geo A ◎ 358-8289
7221★Schlegel Gustav ◎ 353-8456
E 73D ST INTERSECTS
E 73D TER INTERSECTS (NOT OPEN TO W)
7310 Williams Geo ◎ 737-1788
7314 Gant Agnes L 358-8112
7318 Kelly Roosevelt ◎ 358-0290
7331 Cason Frederick ◎ 358-7815
7334 Shumate Robert Jr ◎ 358-7132
E 74TH ST INTERSECTS
7400 Cunningham Doss E ◎
7415 Vertreese James ◎ 353-6006
7416 No Return
E 75TH TER INTERSECTS
ZIP CODE 64138
7520 Dugger Edw A ◎
7524★Black Guy R ◎
7528★Sims Ernest W ◎ 356-8611
7532 No Return
E 76TH ST INTERSECTS

418

FAIRWOOD DR INTERSECTS
9313 Bratcher J L ◎ 761-2441
9314★Phegley John C ◎
9315 Hiebl
9316★Phillips John M ◎ 765-2540
9317 Scardino M F ◎ 761-0814
9318★Obermeier Heidi L ◎ 761-2985
9319 Winders Dallas C ◎ 761-0746
9320 Payne Wm H ◎ 763-8596
9321 Seller Donald E ◎ 761-3354
9322 Cunningham O W ◎ 966-1972
9323 No Return
9400 Sullivan Thos ◎ 761-0603
9401 Francis Joe ◎ 761-0591
9402 Hudson Cleo ◎ 763-4621
9403 Bellomy Cornelius ◎ 765-8718
9404 Cousin Sammy Lee ◎ 765-2631
9405 Brown Emma J Mrs ◎ 966-1942
9406★Schaedel Robt A 765-1707
9407 Strange W Lee ◎ 966-1158
9408 Boswell Richd F 966-0993
9409 Hill Dennis L ◎ 966-8398
9410 Bopp Fredk A ◎ 763-5125
9411★Mc Millen Bradley S 765-6859
9412 Walter Richd J ◎ 761-6146
9413 Cobbetts Clarence ◎ 765-6450
9414 Campbell Mary ◎ 966-9653
9415 Moffitt C Richd ◎ 763-0528
9416 Garcia L ◎ 763-6893
9417 Whitley Fred K ◎ 761-2034
E BANNISTER RD INTERSECTS

422-A

E 103D ST TER INTERSECTS
10300★Murphy Kevin 966-8627
10301 Grogon Esther E ◎ 761-1019
10303 Luvin Ellis C ◎ 763-8629
10304 Gordon Floyd C ◎
10308 Neyens Geraldine D ◎ 763-3668
10309★Hargraves Linda D 763-2418
10311 Diehl Ronald A ◎ 966-0177
10312 Rakoski Junetta M ◎ 763-5986
10316★Dixon Lee P ◎ 765-6660
10317 Kudra Kenneth R pntr ◎ 966-9228
10320 Torode Patricia A ◎ 763-3270
10323 Hutchison Terry D ◎ 765-1648
10324 Dickerson Donald W ◎ 763-3192
10401 Faughn Johnny L ◎ 763-4527
10405★Spencer Lawr G siding applicator 765-6523

246

10408 Libeer Peggy ◎
10409 No Return
10412★Hodge Richd A 761-3493
10413 Sanders Walter L ◎ 761-0710
10417 Sales Linda A ◎ 763-5075
10418 Leslie Sarah L ◎ 966-1315
10420 Ramirez James R ◎ 761-1009
10421 Weissman Steve C ◎ 765-2181
10424 Inboden Mike W ◎
10425 Yeager Christopher ◎ 765-4873
10427 Russell Thos O ◎ 761-5728
10428 Anderson Kenneth E ◎ 761-3373
E 105TH ST INTERSECTS
10500 Moretina Donald F ◎ 761-2482
10501 Rickey Emeral L ◎ 761-6740
10505 Strickland Walter L ◎ 761-4592
10506 Jones Wayne A 966-1657
10508 Fuller C R ◎ 763-1357
10511 Twaddell Kent A ◎
10512 Watkins Donald ◎ 761-1159
10515 Butler Steve W ◎ 765-4116
10516 Crawford Lila M ◎ 763-6209
10519 Rodriguez Gabriel ◎ 765-0091
10522 Neitch Johnnie J ◎ 763-1595
10523 Thomas Earl ◎ 761-2019
10524 Brown A B ◎ 765-2015
10600 Moyer Juanita ◎ 765-5684
10601★Lassince Andre 763-4296
10604 Gately James S ◎

247

10605 Osick Barbara Mrs ◎ 765-4448
10607 Matthews Frank J ◎
10608 No Return
10609 Curl David 966-8287
10610 Antrim Kenneth E 765-5637
10611 Smith Raymond H ◎ 761-0275
10612 Crume Chas S ◎
10619 Parker Elmer G ◎ 761-7843
10622★Kenney Nancy I ◎ 761-5165
E 107TH ST INTERSECTS

426

E 114TH ST INTERSECTS
11400 Hendershot W Jean ◎ 761-6631
11401 Watkins A E home improvement ◎ 763-6039
11402★Mendenhall Vivian L
11403 Lines Phyllis J ◎ 763-7848
11404 Edwards Mary L Mrs ◎ 763-0673
11405 Anderson Leroy ◎ 761-8987
11406 Hatfield Jean A
11407 No Return
11408 Nielsen Kevin
11409★Gumminger Frank 765-6962
11410 Cole Gayle 761-7604
11411 Snider Tami K
11413★Schlitzer Jeffrey 763-5446
11414 Rhoads Lawrence E ◎ 763-1044
11415 Beeler Ethel M ◎ 765-5915
11416 Campbell Josh 761-7699
11417 Baskin James L ◎ 761-0642
11418 Rader Billie L ◎ 761-2230
11419 Stock Glenn A 761-7515
11420 Hilden Dennis 761-2075
11421 Kilgore
11422 Hilden Robt J ◎
11423 Durbin Ron E 966-1311
11424 Heckart Glenn M ◎ 761-2808
11425 Boone Richd S ◎ 761-8315
11426 No Return
11427★Barney Noel C 761-0151
11428 Skaggs Eug L ◎ 761-8577
11429 Cochran Virginia C Mrs 763-4073
11430 Vacant
11431 Milum Glen V ◎ 966-0636
11432 Main Scott ◎ 761-8905
11433 Rankin Marion J ◎ 761-5209
11434★Smith Margt ◎ 765-2007
11435★Sanders Blanch L 763-8482
11436 Wagester Julie 763-1036
11438 Winnie Gary F ◎
LONGVIEW RD INTERSECTS

608

11501 Kirktown Townhouses
11503 Vacant
11505 Grinstad Ervin 966-8546
11507 Buetel Joann M 765-4088
11509 Bracfee
11511 Vacant
11513 Vacant
11515 High Eula M ◎ 765-8444
11517 Nunnally Rickey M
11519 Vacant
11520 Kirktown Homes Assn (Club House) 763-6787
11521 Vacant
11523 Vacant
11525 Ramsey Jessie J ◎
11527 Carson David 761-9221
11529 Moss Zeola 763-8357
11531 Vacant
11533 Treamary Phillip
11601 No Return
11603 Vacant
11605 Batzold Fred J ◎
11607 Alexander Ralph L ◎ 763-9756
11609 Vacant
11611 Hovis P 966-9249
11613 Rule Rod C ◎ 763-9310
11615★Krout Mary E 765-3280
11617★Novak C A 763-5458
11619 Nylund Craig E
11621 Vacant
11623★Good Diana
11625 Vacant

328-A

RICHMOND AV N –FROM ½ BLK SOUTH OF 7600 NE 51ST N NORTH

ZIP CODE 64119
5016 Utter Charles R ◎ 452-0093
5020 Rains Calvin ◎ 453-2239
5024 Goodson Clyde E
NE 51ST ST INTERSECTS
5100★Barnhart Tony W ◎ 459-7071
5104 No Return
5108 Hardcastle Lawrence L ◎ 453-7332
5112★Martinez Randy 453-4025
5116 Vacant
5120★Lee Chas A 454-6669
5124 Mitchell Larry ◎ 452-8885
5128 Lee Wyatt W ◎
NE 51ST TER INTERSECTS
5131 Reynolds John 454-9959
5132 Brown David ◎
5135 No Return
5136 Vacant
5139 Cecil John R ◎ 455-0665
5140 Edwards Mike L ◎
5143 Van Booven Cecil C ◎ 454-6592
5144 Vacant
5147 Angelo
5148 Buckley
5151 La Poma Don ◎ 453-1342
5152 Jones Don R ◎ 454-6206
5155★Curtis Fred ◎
5156 Viar Gloria J ◎ 454-7582
5159 De Lange
5160 Crenshaw James W ◎ 454-5031
5163 Kenney Wm L ◎ 452-4121
5164 Walker John 453-0689
5167 Nelson Carolyn
5168 Lafferty Candy R Mrs ◎ 454-9691
5171 Brushwood Kenneth A ◎ 454-3888
5172 Vacant
5200 Vacant
5201 Silvey T L ◎ 454-0212
5204 Cunningham Charles R ◎ 453-5373
5205 Monson W Victor ◎ 454-0726
5208 Moon Marilyn R ◎ 452-5220
5209 No Return
5212 Vacant
5213★Custard Sharon O 452-3895
5216★Payne J ◎ 454-7139
5217 Crouch Thos B 454-1279
5220★Mayer Robt 454-0247
5221 Tuso Lawrence ◎ 455-2486
5224 Nguyen Ngoc ◎ 454-3724
5225 Bailey D L ◎ 453-5352
5228 Conner Jeannette 453-2681
5229 Moon Michl B ◎ 454-5952
5232 Vestal Gary L ◎ 453-3778
5233 Blair Dale R artist 454-8854
5236 Sewell Wilbur C ◎ 452-6631
5237 Frost Gregory W ◎ 455-1962
5240 Vacant
5241★Hadley Michl A ◎
5244 Vacant
5245 Rush Clarence J ◎ 452-4963
5248 Mould Clive D ◎ 453-7077
5249 No Return
5252 Marshall Billy R ◎ 452-3623
5253 Headrick
5300 Radar Wm ◎ 453-6284
5301 Griessel D D ◎ 454-0265
5304 Coil Eugene ◎ 452-8108
5305 Carlson Richd E ◎ 455-3816
5308 Radcliffe Diane ◎
5309 Pearce O Edw ◎ 452-1355
5312 Phipps Jack ◎ 454-7821
5313 Hill Gene H ◎ 455-0575
5316 Moss Ernest P ◎ 455-2495
5317 Crispi Phillip M ◎ 454-4295
5320 S & S Roofing 454-5281
Shewmake Frank E ◎ 455-0512
5321 Campbell Hugh ◎ 452-4472
NE 53D TER INTERSECTS

328

NE 53D TER INTERSECTS
5328 Mayorga Mario E ◎
5329 Donlon Marlene ◎ 452-3184
5335 Miller Ronald R ◎ 454-2315
5336 Sanders Michl C ◎ 453-5549
5339 Hood Gary W ◎ 452-0404
5342 Cuttler Rex ◎
5347 No Return
5348 Dana
5353 Folker John T ◎ 454-5395
5354 Castilleja Pete ◎ 453-2852
5359 Scoville Neil G ◎ 454-4681
5360★White Wm L ◎ 453-3788
5364 Pickarell Wanda L ◎ 453-5653
5365 Gibson Charles C ◎ 452-1731
5369 Sanders Glenn C ◎ 452-7481
5370 Chancellor Wanda ◎
5375 Rogers Howard L ◎ 454-6625
5376 Smith C L ◎ 453-6268
5379 Mc Donald Larry D
5380 Olson Richd L ◎ 453-2759
5383 Hall Hubey S ◎ 454-3930
5384 Shore Rhonda A ◎ 455-3335
5385 Jones Woodrow F ◎ 453-5038
5386 Vacant
5389 Gardner Dean E ◎ 455-3208
5390 Girsh James Rev ◎ 455-1898
5393 Adams H Thos ◎ 454-8812
5394★Repine Robt L ◎ 453-5193
5396 Reusch Harold F ◎ 452-2646
5398 Giglio Michl L ◎ 452-6533
5399 Davis Bill R ◎ 452-0074
NE GRACEMORE DR INTERSECTS

418

RICHMOND DR –FROM 9208 BLUE RIDGE BLVD EXTN SOUTH

ZIP CODE 64138
9200 Tipton Geo A ◎ 761-1149
9201 Wolf August A ◎ 761-5300
9202★Pflanz Mike ◎
9203 Moore Gregory S
9204★Worden Alan H ◎
9205★Wilson Janet
9206 Curry Margt E ◎
9207 Rouchka James J ◎ 761-0186
9208 No Return
9209 Meeks Gina
9210 Garber Michl K ◎
9211★White John III
9212 Gillett Donald ◎ 761-5908
9213 Bradley Paul ◎ 763-6094
9214 Metz Herman G ◎ 761-1168
9215 Kobets Godfrey S ◎ 761-3692
E 93D ST INTERSECTS

420

ZIP CODE 64134
EASTERN AV INTERSECTS
9600★Humphreys Steven E ◎ 761-5916
9605 Tucker Fred F ◎ 763-8118
9607 Fields Stanley M ◎
9608 Clark Robt M ◎ 763-2793
9609 Arnone Joseph J ◎ 761-5539
9612 Hahnfeld Richd ◎ 763-0995
9615 Moore W Fredk ◎ 761-3545
9619 Joseph F Delon ◎ 966-0461
9700 Randol Richard L ◎ 761-8453
9701 White E ◎ 765-8766
9704 Norris J R ◎ 761-2053
9705 Moore James B ◎ 761-2163
9708 Foster John M ◎ 761-4987
9710 Creech Thelma L ◎ 761-1397
9712 Noonan Paul A ◎ 761-1771
9713★Vaughn Ray L ◎ 765-8681
9714 Luton Ray A ◎ 763-2776
9715 Marcotte Allan V ◎ 763-1492
9717 Cook Richd M ◎ 763-3299
9801 Smith James L ◎ 761-0588
9804 Kirby Wm W ◎ 765-0372
9805★Wilson Jas D ◎ 761-3366
9807 No Return
9808 Frank Tom L ◎ 761-3363
9809 No Return
9812 Price Gerald M ◎ 765-4755
9815 Roush Cheryl ◎ 765-1810
9816 Benneson John R ◎ 761-6232
9819 Walker Grace E Mrs ◎ 763-5655

TP	Adjoining	Source
✓	✓	R. L. Polk and Co.

OZARK RD 1985

NW OVERLAND DR—Contd
8216★Babish Al M 587-2336
8217 Lineberry Ronald 741-9258
8218 Denning Ron ◎ 587-8815
8220 Mc Bride Patricia A ◎ 587-9882
8221 Coves Clubhouse 741-7715
8317 Young Joseph F ◎ 741-2936
8323 Henderson Ronald G ◎ 741-9435
8329 Voburnik Ronald real est broker ◎ 587-1728
8332★Ridings Bernard B Rev ◎ 741-9063
8334 No Return
8335 Griffith Chas A ◎ 741-8932
8336 Slaughter G 741-9286
8338 Kovac Roberta A ◎ 741-2750
8340 Bauerle Don L ◎ 587-8970
8341 Alvarez Arnulfo ◎ 587-9485
8342 Gibson C A ◎
8344★Clark John R ◎
8346 Vacant
8360 Metzgar Lila L ◎ 741-0882
8362 Jackson V M ◎ 741-9559
8364★Mc Rae R D 741-9562
8366★Sanders Robt E ◎
NW 83D TER CONTINUES

501
ZIP CODE 64153
8600 Under Constn
8601★Hobbyhorse Carl H ◎ 741-4054
8605★Long Michl 587-8464
8606★Maxwell Gary D ◎ 741-7444
8609 Vacant
8610★Stomp Richard 587-2141
8611 No Return

325
OVERTON AV —FROM 9700 E 47TH SOUTH

ZIP CODE 64133
4700 Barker Norma L ◎
4701 Neaveill Boyd A ◎ 353-7896
4709 Mathia David E ◎ 356-7931
4710 Vacant
4715 Vogt Geo 353-6929
4716 Roark Marvin ◎ 353-4192
4719 Galbraith Geo R ◎ 358-2994
4722 Vonderahe Eug J ◎ 356-7603
4723 Kremers Henry G ◎ 356-9291
4726 Horan John B ◎ 353-8223
4729 Kerschbaum David ◎
4732 Byard H Mike III ◎ 356-1839
4733★Tolly Louis L ◎ 356-7204
4736 Babich Thos ◎ 356-2260
4737 Wilson Douglas 358-3689
E 48TH ST INTERSECTS
4800 Earley Henry G ◎ 353-2847
4801 Harris Amos ◎ 356-9683
4808 Finn Mickey ◎ 356-1470
4811 Diekhoff Joachim ◎ 356-4773
4814 Allen John E ◎ 356-4620
4817 Gauldin Charles R ◎ 353-3397
4820 Wilson John R ◎ 737-3323
4821 Snow Doyle O ◎ 353-2490
4824 Tudor Walter A ◎ 358-4684
4827 Vunovich Gail Mrs ◎ 737-0316
4830 Browning John R ◎
4833 Burch Vinson L ◎ 356-6499
4834 Mark Gregory ◎ 358-8825
4837 Wallace Charles M ◎ 358-5930
4840 Harmon David ◎ 353-0732
4843 Howell Martha ◎
4844 Meyers John R ◎ 356-4083
4900 Oster Wm J ◎ 353-6465
★Oster Don pntr
4901 Gum Charles R ◎ 356-4181
4906 Winger Geo T ◎
4907 Gross Larry C ◎ 358-9049
4913 Toczek Frank J ◎ 356-2676
4914 Rogers Earl W ◎ 356-0318
4918 Gilbert Geo ◎ 358-9938
4919 Foley Herbert J ◎ 356-3116
4923 Vacant
4928 Honeywell Fred J ◎ 356-4114
4929 Noone Wm V ◎
4933 Miller Jean J ◎ 356-5769
4937 Haynes James R ◎ 358-7854
4941 Tomlinson Jessie M
EVANSTON AV INTERSECTS
HAWTHORNE INTERSECTS
5020 Johnson Joe K ◎ 353-8837
5021 Siemann John E ◎
5024 Canfield Harriet Mrs ◎ 358-2664
5025★Feeler Russell D ◎ 737-1020
5028★Smiddy Glen ◎ 358-5567
5031 Spriggs Marla K ◎ 353-5193
5032 Baker Robt W ◎
5035 Musgrave Dorothy J Mrs ◎
5036 Dennis Ronald D ◎ 737-3578
5040 Stone Charles ◎ 353-9192
51ST TER INTERSECTS
5100 Casey D D ◎ 353-4779
5104 Graham Charles O ◎ 353-3479
5107 De Moss Robt L ◎ 358-0655
5108 Angelbeck Paul E ◎ 356-7645
5111 Howard Charles P ◎ 356-5111
5112 Bahan Robt L ◎ 358-0955
5115 Taylor Paul H ◎ 353-6036
5116 Scott Carol S ◎ 353-2368
5120 Denti Raymond V ◎ 358-8753
OVERTON CIRCLE INTERSECTS
5220 Graham Carolyn ◎ 358-5397
5226 No Return
5232 Thomson Harold E ◎ 358-4312
5238 Murdock Terrence E ◎ 353-0635
E 52D ST INTERSECTS
5242 Linton Francis C ◎ 356-2883
5248 Hillson Harold ◎ 358-8506
5252 Sirna Pete L ◎ 353-4594
5253★Price Keith V ◎ 356-4486

325
OVERTON CIR —FROM 5200 OVERTON RD NE THEN IN A CIRCLE BACK TO 5200 OVERTON RD

ZIP CODE 64133
5119 Wagner John D ◎ 356-1455
5123 Mason Geo ◎ 358-0129
5201 Bowers Kenneth C ◎ 353-6207
5207 Davis Leland E ◎ 353-9151
5213 Barker Ruth Mrs ◎ 358-0120

616
OVERTON ST N —FROM N LINDENMAN TER NORTH

ZIP CODE 64161
3820 No Return
3823 Benson Charles R ◎ 454-3322
3840 Urness Andrew A 454-3496
3926 Condra Dave
3933★Guaciano H A 452-0971

227
OWEN AV —FROM 1000 N PROSPECT AV EAST

ZIP CODE 64120
N CHESTNUT TRFWY INTERSECTS
2800 Baber Wm C 241-7527
N CHESTNUT AV INTERSECTS
N KANSAS AV INTERSECTS
N AGNES AV INTERSECTS
N BELLEFONTAINE AV INTERSECTS

238
OXFORD AV —FROM 36TH ST TER SOUTH

36TH TER INTERSECTS
ZIP CODE 64133
3601 Day Virgil G ◎ 737-2855
3608 Williams P B ◎ 353-0240

430
ZIP CODE 64134
10300 Coker Terry D ◎ 763-4166
10316 Smith Paul H ◎ 765-4632
10320 Peterson Vern R ◎ 763-4925
10324 Hornaday Patricia Mrs ◎ 761-9531
10325 Paine Wm M Jr ◎ 761-1859
10400★Owsley Chas E ◎ 966-1192
10500 Connelly Michl ◎ 966-0890
E 105TH INTERSECTS

616
OXFORD ST N —FROM NE 40TH ST NORTH AND SOUTH

ZIP CODE 64161
NE 40TH ST INTERSECTS
3855 No Return
3926 Phelps Diana L
4033 King Pansy N Mrs ◎ 452-3800
N E 41ST ST INTERSECTS
4118 Vacant

327
OZARK RD —FROM SNI-A-BAR RD NORTHEAST OF I-435

ZIP CODE 64129
EASTERN AV INTERSECTS
7330★De Thoms

242
EASTERN AV INTERSECTS
Thomas Donald E ◎ 861-0255
7410 Eastwood Hills Community Assn Hall 924-9546
7417 Tippie Willis F ◎
7456 Eastwood Swimming Club Inc 923-5575
7501 Galbraith Jeri ◎ 861-8520
7505 Atzmiller Robt J ◎ 921-3009
7509 Copeland Mary J ◎ 921-9454
E 47TH ST TER INTERSECTS
RICHMOND AV INTERSECTS
7511 Ballinger James F ◎ 921-7679
7517 Neidinger Steph W ◎ 921-1580
7600 Mo Natl Guard Det 1 Co C 135th Signal Bn 923-1102
Mo Natl Guard Hq 110th Engineer Btln 923-1114
Mo Natl Guard 205 Military Police Btln 923-1164
Mo Natl Guard 205 Medics Btln 923-1430
Mo Natl Guard 135 Station Hospital 923-1431
Mo Natl Guard Headquarters Troop Command (St Arc) 923-5711
Mo National Guard Recruiting Ofc 923-9608
7605 Gulledge Robt W ◎ 923-7831
7611 Robinson James E ◎ 923-5491
7621 Scheffe Victor ◎ 924-6062
7633 Newell James M ◎ 923-7543
7639 Vacant
PALMER RD INTERSECTS
7701 Nickerson Corky B ◎ 921-0651
7707 Hammond Jesse 923-4163
7711 Owings Wm R ◎ 924-5404
7715 Hale Donald R ◎ 923-9562
7719 Herrington James W ◎ 923-5979
7801 Brand Donald W ◎ 923-6853
7805 Riley Robt A ◎ 861-8409
7815 Jordan Harold E ◎
7819 Sanders Clarence E ◎ 923-0782
7901★Fields Steve ◎
7905 Dierking Robt W ◎
7909 Wasson Dale L ◎ 923-2051
7915 Lading Donald E ◎ 923-8770
7919★Emo Ronald 921-4362
8100 Municipal Correctional Institution 861-1212
SYCAMORE AV INTERSECTS

115
OZARK ST (NORTH KANSAS CITY) FROM 1400 E 12TH AV NORTH

ZIP CODE 64116
1203 Hydraulic Power Systems Inc 221-4774
1207 S C M Corp (Whse) 474-5205
1221 Hautly Cheese Co 421-3630
1222 Tempmaster Corp htg & air condtg equip mfrs 421-0723
1225 Welco Mfg Co Inc dry wall prod & paint sup mfr 471-1788
BEDFORD AV INTERSECTS
16TH AV INTERSECTS
17TH AV ENDS (NOT OPEN)
18TH AV INTERSECTS
19TH AV INTERSECTS
20TH AV INTERSECTS
ARMOUR RD INTERSECTS

229
21ST AV INTERSECTS
22D AV INTERSECTS
23D AV INTERSECTS
24TH AV INTERSECTS
25TH AV INTERSECTS (NOT OPEN)
26TH AV INTERSECTS (NOT OPEN)
27TH AV INTERSECTS (NOT OPEN)

112
PACIFIC ST —FROM 539 CHARLOTTE EAST

ZIP CODE 64106
COTTAGE LA INTERSECTS
CAMPBELL INTERSECTS
910 Holy Rosary Church venetian hall
911 Corsentino Margt Mrs
914 Mc Intire James O Rev ◎ 471-8584
915 Jaster Lorena M 621-5896
HARRISON INTERSECTS
1001★Schempf E G 471-0847
★Distefano Fanna P 842-9594
1002 Rehabilitation Medical Services med equip sls 474-0868
Heart-America Home Health Care visiting nurse serv 474-2244
1st Fl Black Oak Construction constn 424-4860
2d Fl★Treccariche A ◎ 474-9890
2d Fl Valenti Kate Mrs ◎ 842-3449
B1 Collons Kenneth
1st Fl Soto Andre
1st Fl★Kimball James M 474-9470
1st Fl★Argento Louise Mrs 221-6797
1015 No Return
Bsmt Vacant
1030★Ta Phien D 421-0326
GILLIS BEGINS

116
TROOST AV INTERSECTS
1100 Strada Joseph ◎ 421-7934
1113 Apartments
1e★Panzica C J 221-6275
2n Quarantotto Maria Mrs
1w Cipolla Josephine Mrs 421-1706
2w De Grado Francis
1116 Ferrara Johnny 221-2549
1117★Sbisa Geo 842-0598
1118 Vacant
1119 Lombardo Frank ◎ 471-3193
No Return
1120 Frances Myrtle
2d Fl Lee Roy 221-9045
1st Fl Soriano Jimmie 471-2852
2d Fl Ciocciaro Teresa 842-9604
1122 Sivigliano Sally R Mrs ◎
1123 Palmerter Jeanette ◎ 471-7253
1124 Nigro Michl A ◎ 221-5748
1126 Parker Terry ◎ 842-3671
1128 Harris J C ◎
1129 Dicavolo Salvatore ◎ 221-5148
1130 Vacant
1132 Lockart David
1136 Gargotta Rose ◎ 842-7666
1138 Apartments
N Sladish C 471-3765
Rear Serrone Pete A 842-2638
N Donnici Finell 221-3156
3d Fl Lunanglas Virginia 471-0597
S Aurora Boning 474-0426
2d Fl Dolina Isidro C 842-4018
1139★Buffa Scott K ◎ 842-7424
LYDIA AV INTERSECTS
FOREST AV INTERSECTS

216
PALMER AV —FROM E 16TH SOUTH

ZIP CODE 64126
E 16TH STREET TER INTERSECTS
E 17TH INTERSECTS

247
ZIP CODE 64133
7409★Burton Eug ◎ 358-4046
E 79TH ST INTERSECTS

418
ZIP CODE 64138
E 93D ST INTERSECTS
9300★Gengler P A ◎ 761-8065
9301 Mc Coy Herbert M ◎ 763-6737
9304 Mc Farland Michl R ◎ 765-2545
9305 Martin Patricia A Mrs ◎ 765-7467
9306 Colvin Lloyd P ◎
9307 Peters James R ◎ 761-2407
9308 Mc Gee Charles Jr ◎ 966-0807
9309 Clarke Keith E ◎
9310 No Return
9311 Duckworth Steve ◎ 966-9489
9312 Menke Robt V ◎
9313 Green Ernest ◎ 761-7309
9314 Marshall Roy ◎ 763-8203
9315 Speckels Harry E ◎ 763-8707
9316 Vacant
9317 Bates Richd D ◎
9318 Phillips James ◎
9319 Craig Charles E ◎ 763-5398
9321 Brantner Stanley J ◎ 966-8316
9400 Alpough Peter C ◎ 763-2108
9401 Moorehead Arth E ◎ 763-8409
9402 Smith Whitney A ◎ 761-7730
9403 No Return
9404 Mc Cune Don ◎ 765-2424
9405 Stuart M F ◎ 761-0521
9406 Gillihan Adrian G ◎ 765-4273
9407 Lynn Steph W ◎ 765-2216
9408 Baker Robt L ◎ 761-8830
9409 Thurman Teresa Mrs ◎ 761-9300
9410 Pierce Agnes P Mrs ◎ 761-8285
9411 Nelson Alan C ◎ 765-3398
9412 Johnson Homer I ◎ 966-0084
9413 Wates
9414 Rose Robt L ◎ 763-2761
9416 Stewart Robt M ◎ 761-9647
9417 Plummer Anderson D ◎ 761-4076
E BANNISTER RD INTERSECTS

422
ZIP CODE 64134
E 103D ST TER INTERSECTS
10300 No Return
10301★Mc Cartney Lester
10304 Shilt James H ◎ 761-0887
10305 Archigo Barbara J ◎ 765-6974
10308 Babylon Max L ◎ 761-2887
10309 Norgren Edw ◎
10312 Harrington L Jean Mrs ◎ 761-2663
10313 Jones Virgil C ◎ 761-2303
10316 Polson Larry E ◎ 761-1831
10317 Underwood R B ◎ 765-3205
10320 Cooper Gladys Mrs ◎ 763-5981
10323 Hummel Robt E ◎ 761-5656
10400 Anschutz Harry W ◎ 761-8637
10403 Leake Keith R ◎ 761-5499
10406 No Return
10409 Newhouse Richd L ◎ 765-6952
10410 Holiday Magic Cosmetics
Kachel Daniel E ◎ 763-4340
10413 Dent Hazel C Mrs ◎ 761-3689
10414 No Return
10419 Ross Robt G ◎ 761-8132
10420 Dunn Robt L ◎ 763-6023
10423 No Return
10424 Calegari Bill ◎ 761-2908
10427★Nash Randy E ◎ 765-5831
10428 Broderick Michl ◎ 763-1807
E 105TH ST INTERSECTS
10501 No Return
10505★Pope L R
10506★Pritchett Larry G ◎
10509 Spry Gary W ◎ 763-2113
10510 Bobier Geo S ◎ 763-6729
10511 Harp Ronald G ◎ 763-0878
10514 Vacant
10515 Acers Robt contr ◎
10518 Atkins Tom M ◎ 761-4967
10519 Duggar Lloyd M Jr pntr ◎ 763-0543
10521 Kasinac Frank ◎
10522 Martin Doug ◎
10526 Maggart Shirley E ◎
10527 Brown Wilbur L ◎ 761-7371
10530 Kippings Lawrence J
10601 No Return
10602 Bass Chas H ◎ 761-7147
10605 No Return
10606 Metzler John A ◎ 765-7328
10608 Morgan Wm P ◎ 763-5861
10611 Jones Michl ◎ 763-9008
10612 Lombardino Charles ◎ 763-2795
10615 Beer Bernice I Mrs ◎ 761-6728
10616 Foland Wayne R ◎ 761-6010
10619 Gaughran Jerry ◎
10620 Foland H E ◎ 966-0333
10623 Heckathorn Virgil W ◎ 763-3865

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

47TH ST TER E 1985

E 47TH ST TER—Contd
102★Thomas Aaron 861-8078
103 Vacant
200 Walton Johnnie 921-6414
201 Holiday Gladys
202 Mason Paula
203 Karimu Jimoh A 921-9779
3706 Benton Manor Apts
100 Fletcher Yvonne 861-2286
101 Faceson Carolyn 861-2633
102 Clay Peter 921-7395
103★Grayson Donald 861-0924
200 Vacant
201 Harris Kenneth D 924-2367
202 Smith Alain 861-6746
203 Vacant
3707 Benton Manor Apts
100 Napoleon Alvin
101★Pleasant John
102★Hopkins Tyrone
103 Guess Uylande 923-7651
200 Triplett Gladys 924-3613
201 Hughes Michelle 921-6434
202★Parker Richd 861-3374
203 Smith Frank
3708 Benton Manor Apts
100 Vacant
101★Cason Anitra
102 Vacant
103 Vacant
200 Carouthers Paula 921-4543
201 Stovall Terry 924-0641
202★Love Herman
203 Vacant
3710 Benton Manor Apts
100 Love Rodney D 924-0293
101 Taylor Vernon L
102 Jackson Jas W 924-7608
103★Thomas Sherrie L 921-3196
200★Young Ricky
201 Davis Jake Jr 921-1190
202 Jills Kimberly S 861-0194
203 Walker Carla J
3711 Benton Manor Apts
100★Kelley Grace M 923-2409
101 Epps Wm E 861-7151
102 Vacant
103 Vacant
200 Feilds Rubin
201★Carter A Rosalyn 921-1495
202★Jackson Irma
203★Davis Bruce
3712 Benton Manor Apts
100★Kizine Cedric
101 Vacant
102★Woods Chas
103 Vacant
200★Hill Ramona
201 Mahoney Johnnie 921-7620
202 Vaughn Albert
203★Suttles Janet 921-3073

185

CLEVELAND INTERSECTS
3800 Dukes Erma D ◎ 423-0211
3804 Johnson Richd ◎ 861-0617
3808 Hardley Hershell ◎ 923-4298
3812 Vacant
3900 Jordan Ideal ◎ 921-2292
3904 Littlejohn Alex ◎ 924-4566
3908 Brown Fred D ◎ 861-0844
3912 Wesson Sammy ◎ 861-2322
3916 Oates Odessa ◎ 924-4281
3920 Rainey Henry L ◎ 861-6316
3924 No Return
3928 Norman John H ◎ 861-2348
3931 Estis Lee S ◎ 923-6672
3932 Thompson Rosalie C Mrs ◎ 923-2698
3935 Oliver James ◎ 923-8854
3936 Minner Matilda ◎ 924-6921
NORTON CIR INTERSECTS

327

ZIP CODE 64129
6900★Lauderdale
6950 Guthrie Gailen ◎ 861-3224
6954 Enfield Richd L ◎ 923-9230
6960 Blair Gloria Mrs ◎ 924-1939
6964 Bagshaw Max ◎
6970 Monsees Key & Safe 923-2736
★Monsees Gary ◎ 923-2736
PARK RD INTERSECTS

242

RICHMOND INTERSECTS
7600 Meier Ruby M Mrs ◎ 921-2824
7601 Mc Kinney Allis Mrs ◎
7605 Warden Lloyd E ◎ 921-3453
7608★Lamas Frank
7611 Harter Greg ◎ 861-3834
7614 Mc Mahon Wm C ◎ 921-7286
7617★Connell Craig 861-4713
7618 Nance Michael D ◎ 924-4256
7623 Smith Louis E ◎ 924-5722
7624★Taylor Robert A 861-5117
PALMER INTERSECTS
7700★Guthrie Theadore L 923-8837
7701 Jones Richd L ◎ 861-5814
7705 May Mildred ◎
7706 Leeper Jess ◎ 861-7354
7709★Abbott Austin N
7710 Vacant
7714 Crook Wilber L ◎
7715 Haar Paul D ◎
7718 Sheram Douglas L ◎
7719 Turner Richd D ◎ 921-9139
7800 Rasmussen Wayne L ◎ 923-9657
7801 Dunn Joseph P ◎
7804 Mc Cauley Wm M ◎ 924-7331
7805 Smith Clarence L ◎ 861-3152
7809 Sofia Jack D ◎ 923-8077
7812 Alig Edw C ◎ 921-9828
7815 Vacant
7816 Sullivan Robt L ◎ 921-4618
7819 Henik Robby 921-8349
7900 Morgan Thelwood ◎ 921-9387
7901 Howell Lee L ◎ 861-0820
7904 Blatt J 921-0952
7905 Thompson Truman ◎ 921-6501
7908 Mc Anally Michl ◎ 861-7934
7909 Johnson Tom L ◎ 861-8445
7912 Edwards Joe W ◎ 861-6710
7915 Miller Wm E
7916 Clawson Theo E ◎ 861-2248
SYCAMORE INTERSECTS
8300 Giffin Clint ◎ 924-1721
8301 Wesner Ricky D ◎ 921-7491
8304 Brockman Virgil L ◎ 923-5035
8305 Brown David L ◎ 923-2362
8308 Anderson Anne 921-6472
8309★Mc Whirt Mark E 921-8035
8400★Leslie Ron 924-3286
8401 Paprocki John M ◎ 861-8760
8404 Boynton Joe A ◎ 861-6554
8405 Hendricks Henry M ◎ 921-2493
8408★Campbell Steve
8409 Fussell James ◎
WALLACE AV INTERSECTS
8500 Rindom David E ◎ 923-4830
8501 Gray S M 861-8952
8502 Jackson Elza ◎ 921-8373
8505 Mc Henry Stanley ◎
8507 Collins Timothy L ◎ 861-2205
8508 Sims John L ◎ 861-2241
8511 Clemens Ruby ◎ 924-9115
8512★O'Neill C
8515 White Volney B ◎ 921-7942
8516 Cunningham Frank E ◎ 924-4737

241

ZIP CODE 64133
STERLING AV INTERSECTS
11200 Cox Steven R ◎ 356-7946
11204 Cox Tracy E ◎ 353-1393
11207 Mc Mahon Michl G ◎ 353-5048
11208 Lemberger John O ◎ 353-1209
11211 Renner F Irene Mrs ◎ 358-1315
11212 Bellman Naomi Mrs ◎ 356-5335
11215 Kerby John E Jr ◎ 356-0409
11216 Kawalski Joe ◎
11219 Rice Joe L 353-4926
11220 Stevenson Warren L ◎ 358-1281
11223 Harper Robt A ◎ 353-4421
11224 Hartman H Geo ◎ 353-4434
11227 Wait Herbert R ◎ 356-0938
CLAREMONT AV INTERSECTS
BLUE RIDGE BLVD INTERSECTS
12003 Knoche Louise H ◎ 358-4881
12005 Colbert Hazel M Mrs ◎ 353-0598
12007 Vacant
12009 Lane John W ◎ 356-2359

362

47TH ST TER NE —FROM N CAMPBELL EAST

ZIP CODE 64116
1000 Ford Howard L ◎ 454-1152
1101 Young Men's Christian Assn (Clay-platte Br) 453-6600

375

ZIP CODE 64117
2600 Jones Jay T ◎ 455-0521
2603 Engle Clifford J ◎
2606★Patterson C L 454-9218
2607 Lowe Victor E Jr ◎ 453-1880
2610 Harra Keith W ◎ 454-7624
2615★Kats Enomoto Y ◎ 454-3226
2616 Durlacher David F ◎ 452-3393
2619 Crane Bill J ◎
2622 Clark James O ◎ 452-6556
47TH ST INTERSECTS
2700 Ams-Oil Synthetic Lubricants 454-0254
2704 Duffy Anne M Mrs ◎ 452-8031
2722 Whiteaker E Harold ◎ 453-4395
2727 Farris Earl L ◎ 452-9125
2804 Auld Greta M ◎
2807 Myers Steph D ◎ 455-3257
2810 Fantin Delia Mrs ◎ 452-5215
2814★Willard C Kent 452-7203
2820★Rodriquez Ronald F 455-0501
2824 Shurback Dorothy S Mrs ◎
2828 Rogers Albert L ◎ 452-0777
2832 Stewart Alfred J ◎ 454-7742
3201 Cannova Clara Mrs ◎ 452-3201
3206 Latona Victor W ◎
3207 Ruckh Charles W ◎ 453-2645
3212 Shour Herbert H Jr ◎ 452-5622
3213 La Clair Dorothy ◎ 453-5913
3218 Cannova Sal 455-1691
3219 Nordine Geo ◎ 452-0460
3224 No Return
3225 Carriker Glenn A ◎ 454-1700
3231 Withrow C Ray ◎ 453-0748
3237 Gray Robt J ◎ 452-7175

374

CHOUTEAU TRFWAY INTERSECTS
NE CHOUTEAU DR INTERSECTS
3500 Azzarelli Joeseph 452-4928
3501★Brusewitz Wayne R 454-8522
3504 Mc Clelland Gus ◎
3505★Cox Mikel ◎
3506 Wasser Otha M Mrs ◎ 454-1374
3507 Pummill James L ◎ 453-3691
3510 Jenkins David O ◎ 453-7998
3511 Vogelbaugh Kenneth E ◎ 452-6523
3512 Salucci Anthony C ◎
3513 Smith Clifford G ◎ 452-7919
3516 Slater Markalee V Mrs ◎ 454-0225
3517 Voyles James R ◎ 454-3299
3518 Kaul Kenneth E ◎ 452-5831
3520 Blair Jack P ◎ 453-5802
3521 Williams Charlie R ◎ 452-7713
3525 Corsentino Frank T ◎ 454-1114
N SHERWOOD DR INTERSECTS
3600 Ray Joseph V ◎ 454-0971
3601 Duston Glen ◎ 452-9205
3609 Evans Earl V ◎ 453-4518
3610 Regan Thos J ◎ 452-5138
3616 Wilkenson Peter B ◎ 455-0962
3619 Shull James W ◎ 453-5278
3622 Erbacher Philip J ◎ 452-9389
3625 No Return
3628 Loporto Frank R ◎ 452-2186
3631 Vaughan Ray A ◎ 453-0469
3634 Ludwig Kenneth A ◎ 454-7881
3637 Russo Mary ◎ 453-5349
3640 Jackson Richd D ◎ 452-0141
3700★Weinzerl Chas ◎ 452-8234
3701 Amburgey Patty J ◎ 455-1624
3707 Shaw Robt E ◎ 453-3896
3708 Russo Vito S ◎ 453-6746
3713 Pernice Rudolph J ◎ 453-5840
3714 Rhodes Gerald L ◎ 454-6615
3719 Whitt Donald R ◎ 454-3457
3720 No Return
N CLEVELAND AV INTERSECTS

333

N ELMWOOD AV INTERSECTS
4530★Hook Larry L 453-2418
4600 Bingham Frank ◎ 455-0697
4603 Finazzo Chas A ◎ 453-0649
4607 Whitfill Sharon ◎ 452-9375
4610 Collins Bob 454-9915
4612 Diggs Glenn L ◎ 454-4963
4613 Rueckert Terry E ◎ 455-0896
4617 Thompson John ◎ 454-0161
4620 Rice Robt D ◎ 455-3587
4621 Garretson David A ◎ 455-0471
4700 Wade Allan R ◎ 452-4360
4703 Robertson John E ◎ 455-2390
4707★Youngs Linda S 454-6764
4708 Waugh Walter ◎
4711 Kimball F Lucile Mrs ◎ 452-4680
4712★German George
4716★French
4717 Paniagua Vincent C ◎ 454-6671
4721 Loos Lynn E ◎ 452-2762
LISTER AV INTERSECTS
4800 Frost Velma E ◎ 453-1716
4801 Boswell J G 452-1060
4805 Vacant
4810 Barfoot Dennis ◎ 454-0788
4811 Moeller John R 453-7366
4814 O'Roark Mitch K ◎ 452-8727
4815★Brown Audrey M ◎ 454-4443
4818 Petree Jeffery ◎ 452-2436
4819 Murray Ronald ◎ 453-4955
4822 Gensheer Thos ◎ 453-0073
4826 Andregg Michl T ◎ 455-3773
4830 Yochim Betty A ◎ 452-5338

380

NE BRIGHTON INTERSECTS
5102★Seats Roger 452-3870
5103 Mc Coy Wm O ◎ 454-2937
5109 Sublette James G ◎ 452-6237
5120★King John ◎ 454-4678
5121 King Earl L ◎ 453-3216
5200★Legette Darlene 454-9812
5220 Vanskike Harry A ◎

68

48TH ST E —FROM 4800 GRAND AV EAST

ZIP CODE 64112
212 Allard Michl N ◎
214 No Return
216 No Return
220★Evans Jonathan ◎ 561-7992
MC GEE ST INTERSECTS
301 Mazur's Meat Market 753-8443
302 Mirror Plaza Apartments
Hilperthang
303 No Return
304 White Jini 753-7863
Bsmt Fitzgerald
305 De Vault Mike ◎ 561-9249
306 Samuelson Eric 931-8978
308 Sachse Peter R 561-0439
Vacant
6★Miller T A 931-6037
310 Abbott Lyle W 931-3262
Mintun Mark 531-9691
311 Vacant
312 Williams Richd B 561-6555
★Bardwell Bruce A 753-6645
315 East Lake Apartments 942-7183
101 No Return
201 No Return
202 No Return
203 No Return
316 East Lake Apts
1 Lutjen G 753-3311
2★Buchli Sherry L 753-8294
3 Mc Inturff
4 Vacant
5 Vacant
6 Thorne Gene 931-2258
317 Place Gregory T 756-2131
318 East Lake Apartments
1★Carlson Steve 931-5576
2 Calvert J 753-7191
3 Wyler Jay 931-9830
4 Webster S R 561-4070
5 Scott Peter 931-5857
6 Williams J 561-1569
319 East Lake Apartments
101★Schermetz Tim 756-1449
103 Kuthinski S G 753-4682
104★Souders Cary 561-8391
201 Hess L A 561-8451
202★Morris Paula 931-3212
203 Stuteman
204★Burt Doug 931-1326
303 Brown C
304 Lee Pinshan
101★Bertoni N A 931-4073
321 East Lake Apartments
102★Henderson Leasa 531-6471
301★Larose Paul J 561-7233
302★Stewart Arthur 931-2346
ZIP CODE 64110
OAK ST INTERSECTS
LOCUST ST INTERSECTS
ROCKHILL RD INTERSECTS
HOLMES ST INTERSECTS
704 Gardner Harry D ◎ 561-4386
705 Lin M 753-2843
708 Thompson Gary A 753-0428
712★Rush Eldon L 753-3861
716 Austin Walter ◎ 561-5068
720 No Return
CHARLOTTE ST INTERSECTS
800★Slavin Susanne C 561-1820
802 Rehard Jerry 561-3526
805 Byrne John E ◎ 931-0274
ZIP CODE 64119
808★Sekine Hisahi 561-3833
809 No Return
811★Ost Richd J 753-4588
815 Hartford Arms Apartments 931-1186
1 Smith Norma J 931-1186
2 Lubar T 753-6345
3 Anderson
4 Alyea Vernon 931-7856
5 Simcox Jeffery 531-4632
6 Bentley
20★Peterson M 753-6179
21 Glawe David A L 753-6912
22 Lawrence Philip F 561-4328
23★Shotts Dale E 753-1391
24 Macadam
25 Caprefoli Paul J 561-5457
26 Mokom
27★Howerton Ruben 531-6054
30 Thomas
31 Maranchuck
32 Callison Chas S Jr 931-6625
33 Greene Arth I II
34 Kramer John A 931-4557
★Jones Carlos 753-1980
36 Spies Timothy
37 Hill Jeff S 931-8204
STREET CONTINUED
819 Hartford Arms Apartments
1★Dada Stephen
2 Violet Clay
3★Chia M Visi 931-4601
4★White Chester
5 Skinner Thos S 753-3294
6★Morad Mahdi B 531-5967
7 Hilmi
8★Smurr R 531-5145
9 Thacker T J II
10★Stiles Leon
11★Olodi Ruben 531-1289
12 Moore
14★Harp Jim
15 Habtezion
16 Oswald John L 531-8115
17 Adebayo
18★Yerdrick A M 531-2497
19★Muoshara Vincent 561-3971
20 Mc Elroy Scott
21★Johnson Eric 931-3816
22 Delaware Rick
23 Lane Russell
24★Mbonigaba Dedas 753-2229
25 Vacant
26 Fuson Jeff 931-9528
27 Vacant
28 Martin
29★Bodagi Tony 561-9235
30 Fountain
31 Gabriel Davina Anne
820 Stephens Thos M 931-2541
901 Pulley Bros Inc whol florists 931-1312
909★Leary Kathleen 753-8505
913 Burns Ilene M
914 Burt-Fredrick Inc prntrs 756-1240
915 Fields Deanna 753-2413
916 Middleton Apartments 531-5483
101 Dawson Mathew D
102★Lewis Francis 531-6249

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

48TH ST E 1985

E 48TH ST—Contd
103★Nichols James 531-6399
104★Hurst Mike
105 Roberts Ray 531-5483
108 Roberts Ray
201 Vacant
202 Richardson Ty L 561-1839
203 Vacant
204★Reeves Roy H 931-0458
205 Taylor
STREET CONTINUES
917 Harrison Evelyn Mrs ◎ 753-6917
922 Dog Grooming Co The 753-4446
922½ White Jas M 561-0479
HARRISON ST INTERSECTS
1000 Vacant
1002 Fisher J C 753-3265
1004 Kaye's Rockhill Bar 753-9130
1008 G & R Body Shop auto body repr 531-8078
1016 Cebis Corp mfrs agts 561-4010
Seek-A-Leak Inc leak detector equip 561-0350
Power Tool Repair Co 561-0622
1018 C & S Drilling Corp 561-4010
TROOST AV INTERSECTS

94

1110 U M K C (physics dept) 276-1000
1122 U M K C (eng dept) 276-1672

132

(NOT OPEN BET FLORA AV AND WOODLAND AV)
WOODLAND AV INTERSECTS
ZIP CODE 64130
1800 Vacant
1801 Carter Alberta ◎ 861-7462
1803 Farris C C ◎ 921-4508
1805 Tucker Ruby L ◎ 861-4890
1806 Summers Dassie D ◎
1807 Vacant
1809 Theus John ◎ 861-8796
1810 Vacant
1811 Wright Willy Mrs ◎ 921-8320
1814 Johnson Wm C ◎
1821 Vacant
1824 Thompson Muriel C ◎ 924-6381
1826 Gibson Oscar J ◎ 924-9248
1827 Madden Wm B ◎
1828 Theus Ed ◎ 921-3269
1829 Little Walter M ◎ 923-8955
1830 Vacant
1831★Simpson Randy L
1834 Mc Gee Lewis Rev ◎ 924-5024
1836 Hughes Anita P Mrs ◎ 923-1047
1844 Preciphs John L Rev ◎ 924-6581
1845 Colles Carl ◎ 861-6396
EUCLID AV INTERSECTS
2000 Colemane Glenda ◎
2008 Kelly M 923-3005
2011 Duchardt Fredk A ind consultant ◎ 921-7022
2016 Duchardt Tom ◎
2020 Birmingham John D ◎ 861-3604
2022 No Return
2026 Ford Kenneth R ◎ 861-9237
2029★Levels F ◎ 921-5117
2041 Phillips Albert Jr ◎ 923-3464
2045 Vacant
BROOKLYN AV INTERSECTS
PARK AV INTERSECTS

185

SPRUCE AV INTERSECTS
KENSINGTON AV INTERSECTS
CYPRESS AV INTERSECTS
4502 Peeler Larry L ◎
4510 No Return
4516★Patton Viola ◎ 924-4453
ELMWOOD AV INTERSECTS
LAWN AV INTERSECTS (NOT OPEN)
LISTER AV INTERSECTS (NOT OPEN)

242

ZIP CODE 64129
RICHMOND AV INTERSECTS
7600★Duque Richard ◎ 921-2683
7601 Garcia C J ◎ 861-1653
7605 Cartwright W C ◎ 924-6187
7606★Ferguson Kaye ◎
7609 Derks Earl A ◎ 923-7422
7610 Jackson Wm S ◎ 923-6356
7614 Mackey Richd ◎
7615 Collins Dana W 923-5264
7618 No Return
PALMER INTERSECTS
7704 Ramsey Wilbert E ◎ 924-8763
7705 Wills Joyce ◎ 923-7773
7710★Duckworth Charles E 861-5050
7711 Hanenberger Carl R ◎ 923-9147
7716 Zimmerman Robt C ◎
7717 Givens James H ◎
7800 Zea Cleaning Service
De Vasher James R ◎ 924-7353
7801 Seaton Elbert J ◎ 923-2179
7806★Martinez D M ◎ 861-8892
7807★Castro L 861-8544
7812 Wilson Robt C ◎ 924-1678
7813★Todd Hazel Mrs ◎ 924-8204
7816★Barnes Kevin L ◎ 923-1771
7817 Cretel Roland H ◎ 921-7278
7900★Gray Vernon ◎ 923-4045
7901 Sanders Charles R ◎ 921-3236
7906 Rockers John J ◎ 921-4486
7907 Younts Alta M Mrs ◎
7911★Nann Willie ◎ 923-1237
7912 Weber Richd L home remodeler ◎ 923-7120
7915 Wiggins Tom ◎ 923-2129
7916★Kaszycki Peter ◎ 924-3906
7919 Wiles Jack L ◎ 861-2808
7920 Cain Mark D ◎ 924-6784
SYCAMORE AV INTERSECTS

325

9604★Shelton Steven K 358-5751

241

ZIP CODE 64133
STERLING AV INTERSECTS
11201 Lilyhorn Theo R chiropractor ◎ 358-0440
11205 Vogel Bud H
11206 Goodman Geo E ◎
11209 Schroeger Eulalia A Mrs ◎ 353-8910
11210 Johnson John R 358-9260
11214 Neece Maxine E Mrs ◎ 353-0139
11215 Matney Robt E ◎
11218★Conover Eliz M 358-3135
11219 Nystrom Harry B ◎ 353-6865
11222 Aldridge Davis ◎ 358-0806
11223 Dennis Milton A ◎ 737-0086
11226 Price Argyle L ◎ 356-1595
11227 Davis Effie R Mrs ◎ 353-4983
11231 Malewski Charles W ◎ 358-6319
CLAREMONT AV INTERSECTS
VERMONT AV INTERSECTS
NORWOOD AV INTERSECTS
11701 Lambros Geo S ◎
11703 Allen Terry V ◎ 358-2966
11706 Runkle Jerry C ◎ 737-2598
11707 Pilsl Paul M ◎ 353-4814
11714 Chatfield Daisey L ◎ 358-8343
11800 Cosentino James ◎
11801 Winbigler Glenn P ◎ 353-5540
11804 Mc Pherson Eavin M ◎ 356-2033
11805 Howe Ronald ◎ 358-4070
11808 Bray Earl E ◎ 353-5682
11809 Carmack Walter E ◎ 353-2519
11812 Taylor Davis D ◎ 356-3327
BLUE RIDGE BLVD INTERSECTS
12001 Hill Victor A ◎ 353-0330
12002 Buchholtz Howard J ◎ 356-2813
12003 Yocum Richd L ◎ 737-1961
12004 Shelton Douglas E ◎ 356-4859
12005 Jablonski Edw ◎ 356-5206
12006 Brown Frances Y Mrs ◎ 353-0278
12008★Lane Geo E ◎ 358-9517

442

ZIP CODE 64136
15200 Eller Leroy J ◎ 373-0997
15201 No Return
15204 Birch Gary W ◎ 373-6743
15205 Hill Cheryl E ◎ 373-0783
15208 Atherton James E ◎ 373-8495
15209 Bermudez Donna M 373-9478
15207 Eaton Larry
15212 Bogue S 478-0397
15215★O'Hearn James W 373-1884
15218 Novak Richd P ◎ 373-7571
15219 Neyhart Lyn 373-6589
15300 Novak Gregory L ◎
No Return
15301 Beach
15304 Luther Michl D ◎ 373-6931
15305 Rathbun Annette ◎ 373-1547
15308 Turner John E 373-8152
15309 Clark Walter J II ◎ 373-7781
15312 Alsup Robt L 373-0676
15315 Biermaier David 373-7838

362

48TH ST NE —FROM VIVION RD EAST

ZIP CODE 64118
2018 Ballard Helen F ◎
2104 Finney Gordon J ◎ 455-3416
2112 Gadd Myrtle L ◎ 452-1793
2117 Northgate Community Education Center sch 453-2250
Adult Basic Education sch college 454-5875
Clay County Teachers Credit Union 452-8375
2120 Becker Charles W ◎ 452-2802
2128★Orr Michl D ◎ 454-2547
2200 Dillingham D Mack ◎ 452-8500
2201 Wolfe Velda B ◎ 452-9622
2214 Short Leslie C ◎ 452-0533
2215 Wiederstein Eug ◎ 452-5984
2216 Schmalz Norman ◎ 452-8297
2217 No Return
2226 Mc Donald Paul W ◎ 454-1085
2323 No Return
2401 Harris Everett E ◎ 454-9008
2405 No Return
2409 Laursen Douglas D 452-5716
2414 Holmes Karen J ◎ 454-2685
2420 Baker Edw M Jr ◎ 454-6097
2426 Bullin Joseph H ◎ 452-4520
2432 Edinger Robt J ◎ 452-1092
2436 Wortham Marie L ◎ 453-4548
2501 Gill Freda Mrs ◎ 452-6070
2509★Urton R Edw Jr ◎ 454-6942
2515 No Return

374

ZIP CODE 64119
NE CHOUTEAU DR INTERSECTS
3405 Miquelon Julie ◎ 452-0361
3408 Fleshman Roy D ◎ 455-0721
3409 Miller Jean A ◎ 452-0857
3412 Dennison Le Roy D ◎ 452-1947
N BALES INTERSECTS
3413 Berglund Larry ◎ 453-2045
3417 Mitchell John M ◎ 453-2864
3421 La Rocca Salvatore J ◎ 453-1281
3426 Cheesebrough Joseph P ◎ 452-6023
3433 Green Billy D ◎ 452-8965
NE SHERWOOD DR INTERSECTS
3501 Wayman Rex L ◎ 453-2825
SHERWOOD ST INTERSECTS
3508 Sexton Charles E ◎
3509 Manley Warren O ◎ 452-5975
3514★Schaiff John C ◎ 453-7816
3515 Sauro Peter F ◎
3522 Sundal Jasper J ◎ 453-2641
3523 Bolewski Ted J ◎ 453-4697
3600 Talbot James E ◎ 455-3269
3601 Peters Mark ◎ 452-4662
3605 Kuhn Warren J ◎ 454-8376
3606 Altenburg Wayne P ◎
3609 Wunsch Robt E ◎ 453-6519
3610 Adams Lucille M Mrs ◎ 453-4482
3618 Moore Roger K ◎ 454-5906
Smith Robt C uphol
3619 Edson Douglas W ◎
3624 Dunn Allan F ◎ 453-4758
3625 Como Christopher M ◎ 453-2625
3700 Berglund J K ◎ 452-0595
3709 Yates J H ◎ 453-5419
3718 Bower Richd C ◎ 453-2049
3719 Stover Rex L ◎ 454-6411
3725 Ireland James W ◎ 454-3461
3740 Incaprera Frank J ◎ 452-4452
3744 Jones Byron W ◎ 454-6828
C & H Sheet Metal 454-6828
N CLEVELAND AV INTERSECTS

333

4601 Harris Milo R ◎ 452-8742
4611 Gusman John E ◎ 454-8252
4621 Nugent Judy M Mrs ◎ 453-1084
4701 Mihlfeld J Steve ◎ 452-9135
4711 Halliburton Virginia ◎ 454-5191
4715 Hey Robt ◎ 454-2387
4717 Matthys Marshall J ◎ 452-4443
4720 Winkler Dean A ◎ 454-6672
N LISTER AV INTERSECTS
4800★Strang Chester B ◎ 453-4800
4805★Andrews Terry D 452-6694
4815 Logan Willard T ◎ 455-2314
4901 Fowler Wm ◎ 454-4447
4905 Ward Thos ◎ 453-6422
4909 No Return
4936 Barber Jodie R ◎
Simmons Don L tree serv

380

N BRIGHTON INTERSECTS
5106 Boston Danl S ◎ 452-1941
5108★Waggoner Jack D 453-7098
5110 No Return
5119★Rumley
5120 Carlson Clarence R ◎ 453-4640
5200★Clime Ruth E 453-7918
5206★Lopez Robt M ◎ 454-6158
5212 Wells Raymond E ◎ 453-6493
5222 Smith Gladys L Mrs ◎ 452-6182
★Behl Ruth 454-2811
5224 Grimes Clarence ◎
5308 Rushing Sid C ◎ 453-0627
5311 Henderson John ◎ 452-9011
5312★Earson Steve ◎
5314 No Return
5402★Boteler John ◎ 452-7211
5406 Smith E E ◎ 452-6361
5410★Lund Orvile D Jr 455-1089
N DRURY INTERSECTS
5500 Dollins John A ◎ 452-2567
5506 Esmond Robt ◎ 453-6636
5517 Pinney Dawson ◎ 455-1876
5518 Tipton Melvin L ◎ 454-9091
5520 Smith Sandy L ◎ 454-7398
N OAKLEY AV INTERSECTS
5612★Calvert Dan ◎ 454-2369
5615 No Return
5620★Stubblefield S L 454-8804
5700 Gash Raymond E ◎ 452-8830
5710 Moore Rod D ◎ 455-0613
5712 Funk Carroll E ◎ 452-0704
5720★Cunningham Robt ◎ 454-1710
N TOPPING AV INTERSECTS
5800★Terrill Donald L ◎ 453-0502
5804★Dennison Rex 452-1105
5815 Winnetonka High School 452-7900
N BELLAIRE AV INTERSECTS
N WHITE BEGINS
N WHEELING INTERSECTS
6120 Northland Christian Church 454-4816
6201 Key Charles R ◎ 455-0118
N FREMONT AV INTERSECTS
6526 No Return
FREMONT AV INTERSECTS
N BENNINGTON AV INTERSECTS
6600 West Carrie J Mrs ◎ 453-4439
6608 Pugh Dennis W ◎ 452-0224
6612 Colgate Edmund O ◎ 452-1456
6700 Thompson Bob C ◎ 454-9127
6701 Blakeley's Grooming Parlor dog grooming 452-5863
Blakeley Hazel L Mrs ◎ 452-5863
N WINCHESTER AV INTERSECTS
N BRISTOL AV INTERSECTS
NE RANDOLPH RD INTERSECTS

328

245

48TH ST W —FROM MAIN WEST AND NORTHWEST

ZIP CODE 64112
BALTIMORE AV INTERSECTS
121 Sulgrave The apts 931-3413
A01 Howard Nancy 931-4253
A02 Guest Apt
A04★White Jacqueline 561-4691
A06★Galloway Kenneth 561-4913
101★Heath Michl W
102 Coen M J 531-4716
103 Liesenberg Virginia C 531-3766
104 Colby Leon
105 Eisen Harry M
106 Shook Elizabeth 531-0621
107 Rowley R L 753-2929
108 Rogers John W 531-5776
201 Coonell Emily 561-1530
202 Bushman Esther F 753-5850
203★Baier Martin 931-1566
204★Molney Dorothea 753-0772
205 Fuhri Wm K 931-9682
206 Fox Louis A 931-8308
207 O'Keefe Virginia G Mrs 531-7480
208 Rodrick Tammy 561-2902
301 Sees Emil A Mrs 561-7093
302 Wilson Lee Roy J 531-2223
303 Lombardi Adele Mrs 531-0030
304 Carlock Roxanna 931-0587
305 Belwood James M 531-5955
306 Price Jane W 531-5183
307 Frew John H Mrs 561-0279
308 Epstein Harry J 931-4469
401 Fitch Howard H 531-8806
402 Shangler Chas Hon 531-4456
403★Frontman Richard 756-2323
404★Edwards Martha 531-2922
405★Warden Doris
406 Wilson Charles R 561-9227
407 Rosenberg Hermann P Mrs 531-7437
408★Freeman Allan 756-2291
501★Wasserstrom S 561-8876
503★Austin William 531-3327
504★Coffman E B Mrs 931-7497
505 Rolsky Melvin 931-5015
507 Kennedy Ann K 561-2414
508 Massman Henry J Jr 931-3377
601 O'Sullivan Mary M 931-4445
602 Stern Belle G Mrs 931-6151
603 Curry Charles F Mrs 531-6099
604 Ladish M E Mrs 931-8281
605 Ennis Edith 531-7720
606 Smart Sally C 753-0283
606 Smart Agnus B 753-0283
607★Lehman Kurt 531-3948
608 Berkowitz Barney 753-7855
701 Charno Geo H Jr 561-8404
702 Murphy J Donald Hon 753-3495
703 Rainey Walter Mrs 931-3550
704 Duboc Robt M 931-8665
705 Spence John Mrs 931-6464
706 Brous Richd P 931-1004
707★Olson James C 561-5934
708 Lillis Kath H 931-7403
801 Sharp Marion B 561-5583
802 Eversull Hubert Mrs 931-9010
803 Goforth Wm F 753-1645
804 Mabry M Mrs 931-8842
805 Abend Bertha Mrs 931-1929
806 Connor Lawrence R Mrs 753-8556
807 Williams Ralph B Mrs 753-5867
★Robinson Estelle 756-3063
901 Felkner Roy L 531-1239
902 Skinner Delano R Mrs 931-9712
903 Brasfield Mable M Mrs 931-2636
904 Reynolds Ruth C 753-6222
905★Johnston Steven 561-7330
906 Seigreid Ira J 753-7099
907 Ruml Treadwell 756-3442
908 Hoey Wm F 753-8593
1001 Lieberman B A 753-2046
1002 Davis Dorothy F 931-6288
1003 Fisher Evlyn 561-1071
1004 Ramsey J W Jr Mrs 531-4292
1005 Weaver Geo W 931-2680
1006 Cowherd Carson E 753-2558
1007 Stuck Pauline G 531-7460
1101 Hirsch R A 753-0972
1102 Parker David 931-9123
1103 Keck Leonard W 531-5865
1104 Whitton Rex Mrs 753-4419
1105★Myers Richard 753-8072
1106 Ball James D 931-2311
1107 Leifer Wm W 931-9257
1108★Thomas D 531-7297
1201 Giblin Cornelius J Mrs 561-1602
1202 Sidley Ruth Mrs 561-0618
1203 Sheffrey Elise Mrs 753-3723
1204 Fullerton Wm B 753-7347
1205 Vacant
1206★Wilson Aaron A 931-3331
1207 Zarr Ralph 756-1384
1208 Eisen Bernice 931-6889

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

PALMER DR 1985

PALMER AV—Contd
E 107TH ST INTERSECTS

426
RUSKIN WAY INTERSECTS
11202★Stringberg David ◎ 761-1874
11203 Vacant
11204★Mountjoy Patricia E ◎ 966-9363
11205 Zilch J ◎ 765-1126
11206 No Return
11207 No Return
11208 Rookstool Lawrence H ◎
11209 Dewhirst G E ◎ 763-8979
11210 No Return
11211 Laws Lester Jr jan serv ◎ 763-4259
11212 Bishop Alberta N
11213 Burbey John E ◎ 761-1761
11214 Alvarado Ben ◎ 763-1726
11215 Tyner Steve P 763-8037
11216 Grogman Gary ◎ 761-8280
11217 Bailey James R ◎
11218★Lass Jas E 763-3479
11219★Bruns Richd ◎ 765-0323
11220 Leavitt Paul M ◎
11221★Eddleman John ◎ 763-2648
11223★Johnson Mari ◎
11225 Vacant
E 114TH ST INTERSECTS
11400 Thompson Raymond L Rev ◎ 761-5310
11401★Murphy Christopher ◎
11402 Money Russell A 761-4378
11403 No Return
11404 Howard David K ◎ 761-3327
11405 Vacant
11406 Frederick D J 761-7976
11407 No Return
11408 Singleton Gordon A ◎ 761-3339
11409 Boerger Leonard N ◎
11410 Burnett Geo 761-9224
11411 Beckett John W 761-9540
11412 Steele Jerry L
11413★Martin Thos 763-2586
11414 Snow Donald R ◎ 765-0741
11415 Curliss Edw L ◎ 761-6139
11416 Miller Frances Mrs ◎ 763-4204
11417★Regan R J 761-9269
11418 Burton C J Mrs ◎
11419 No Return
11420 Olewine Alberta Mrs ◎ 761-5695
11421★Thomas E 761-8931
11422 Sheldon Marion ◎ 763-0568
11423 Kenney Charles L ◎ 761-0568
11424 Bishop Roger L ◎
11425★Gann Justin ◎
11426 Alumbaugh Carl G ◎ 761-8569
11427 Brown Bill G ◎ 763-0684
11428★Martin Chas ◎ 763-9683
11429 Workman Hobart F ◎ 761-4628
11430 Mayes Timothy J 761-8231
LONGVIEW RD INTERSECTS

608
ZIP CODE 64134
11500★Patton Murl ◎ 966-9219
11501 Lute Monica ◎ 763-5767
11502★Blue John A Jr ◎ 765-0258
11503 Douglas Robt ◎
11504 Allen John D ◎ 761-8980
11505 Clark Paul ◎
11506 Tutt Lorenzo G ◎
11507 Ross Anderson ◎ 765-0853
11508 Mc Dowell Harold ◎ 966-9763
11509 Perkins Harold ◎ 761-8936
11510 Washington Arth ◎
11511 Hinton Wm K ◎ 765-5290
11513 No Return
11514★Brown Elvia E ◎ 763-9399
11515 Juedeman Ronald L ◎ 763-1617
11519 Hambrick Haywood L
11520 Ward Robt E ◎
11521 No Return
11600 Hall Lloyd Jr ◎ 761-0313
11601 Talbert Blachard F ◎ 966-8672
11604 Johnson Albert E ◎
11605 Jones Chester L ◎ 966-8175
11607 No Return
11608 Edmonds Albert V ◎ 763-8664
11609 Williams Bobby G ◎ 966-8445
11611 Hamlett Robt R ◎ 763-1834
11612★Musgrove Robt ◎ 765-7989
11615 Fuqua Nola J ◎ 765-7829
11616 Nicholson Worley H ◎ 765-0884
11618 Jones Paris ◎ 761-1747
11619 White Richd ◎
11620 Harper
11621 No Return
11622 Blackmon Prentice ◎ 763-6986
11624 Smith Betty ◎ 761-4106
11625 Kennedy Thos J ◎ 966-9045
E 117TH PL INTERSECTS

328
PALMER AV N —FROM 51ST STREET TER N NORTH AND NORTHEAST

ZIP CODE 64119
5112 Hinkle Pauline ◎ 455-0481
5116 Ballenger James C ◎
5120 No Return
5123 Johnston Ronald W ◎ 454-4094
5124 Cowden Leslie A ◎ 453-1572
5128 Bailey Larry E ◎
5129 Reusch Harold Ray ◎ 454-0398
5132 Osborn Lester L ◎ 453-7576
5133 Purtle Ora ◎ 454-3730
5136 Olvera Thelma N ◎ 453-5693
5137 Mc Claskey Phillip J ◎ 454-9806
5140 Violett Vernon W ◎ 452-9037
5141 Cramer Martin D ◎ 455-3651
5144 Bagby Walter L ◎ 452-3362
5145 Cockrum Roger D ◎ 454-2140
5148 Peacher Thos ◎ 454-5827
5149 Donovan Wayne C ◎ 453-7006
5152 Buckley Darlene S ◎ 454-0796
5153 Belt Thos J ◎ 452-8020
5200 Bless Lawrence E ◎ 454-5529
5201 Stewart Harold D ◎ 452-2643
5204 Chennault Joe E ◎ 455-0028
5205 Ford Robt E ◎ 453-4050
5208 Steffen Richd O ◎
5209 Ritter Chas 455-4508
5212 Wietharn Dwight F ◎
5213 No Return
5216 Mistler Rodger G ◎ 454-7465
5217 Baker Theron C ◎ 452-2718
5220 Schumacher Arth J ◎ 453-5388
5221 Vacant
5224 Walters Wm E ◎ 453-2878
5225 Pace Glenn R ◎ 453-7901
5228 Philipps Melvin A Jr ◎ 453-2119
5229 Green Connie L Mrs ◎ 453-7988
5232 Chisam Wm K ◎ 453-5747
5233 Rodgers Wm W ◎ 454-8681
5236 Chaszar Mildred L ◎ 454-4636
5237★Schlosser Raymond C ◎ 453-4249
5240★Fost James
5300 Carpenter Wm R ◎ 453-6378
53D ST INTERSECTS
5301 Elkins Wm H ◎
5306★Vaughn Paul ◎ 453-1172
5309 House Floyd A ◎ 454-0543
5310 O'Brien Kevin ◎ 453-6802
5314 Van Gordon Frank ◎
5315 Trahan Mary J ◎ 452-6770
5318 Romine Patrick J ◎ 452-9044
5321 Huffman Clara L ◎ 454-0862
5322 Gilpin Logan C ◎ 453-2165
53D ST TER INTERSECTS
5328 Leone Joe L 452-5289
5329 No Return
5335 Vacant
5336 No Return
5339 Kelso Terry ◎ 452-9010
5342 Scobee Danny G ◎ 454-6886
5347 No Return
5348 Lee C Douglas Jr ◎ 454-9544
5353 Renfro John A ◎ 455-1492
5354 Kingsolver Shirley Mrs ◎ 452-9424
5358 Jones Paul K ◎ 453-0074
5359 Spraggs David L ◎ 453-4140
5364★Tuck Jesse R 452-8656
5365 Licata Sam P ◎ 452-8699
5368★Kuhn Gregory K 454-5478
5369★Cobb Randy ◎
5374 No Return
5375 Majors James E Jr ◎ 452-9278
5379 Walz Nicholas F ◎ 452-5180
5380 Jones Frank M ◎ 452-0846
5383 Crain Jerry W ◎ 453-7863
5384 Seifers O Wayne ◎ 454-4083
5388 Palmisano Anthony J ◎ 454-3751
5390★Witte Conrad G ◎ 452-2157
GRACEMORE INTERSECTS

242
PALMER DR —FROM 4731 OZARK RD SOUTH

ZIP CODE 64129
4733 Nicholson Wm D 923-5205
E 48TH ST INTERSECTS
4800 Taylor James ◎ 924-7505
4809 Shepard Mary
48TH TER INTERSECTS
51ST ST INTERSECTS
5100 Zink Stan D ◎ 861-8372
5101★Demoss Francis ◎ 923-8690
5106 Dumas Henry E ◎
5109 Downey Frank L ◎
5110 Jensen Vern
5114★Butler Jack E ◎ 921-2182
5117★Lee D S ◎ 861-2613
5118 Davenport Rose Mrs ◎ 921-0645
5122 White Milton J ◎ 924-5755
5125 Vacant
5126 White Gary ◎
5130 Hough Mary T ◎ 924-3311
5131★Porter A G ◎ 921-4758
5134 Vacant
5135 Kissee John A ◎ 921-9670
5138 Conard Darline H ◎ 924-4660
5139★Jones Howard L ◎
5142 No Return
5143★Smith Ken ◎
5147 Schowengerdt Calvin E ◎ 923-3861
5148 Murray Betty J Mrs ◎ 924-6424
5151★Levota Anthony G ◎ 923-4347
5154 Huff Leonard J ◎ 861-7762
5155 Bandy Bernice G ◎ 924-6988
5157 Harbert Marjorie J ◎ 921-9500
5159 Sullivan Ralph F ◎
5160 Downs James D ◎ 921-8332
5161 Vacant
5163 Eve Lovena ◎ 921-3349
5164 Vacant
5165 Reid Carrol D ◎ 921-1712
5168 Davis Shirley
5172 Pierce Forest L ◎
5173 Shelton June I ◎ 921-4832
5177 Sanders B G ◎ 923-3786
5200 Stephens Kenneth J ◎ 923-7465
5201 Vacant
5205★Denrow Dennis G ◎ 923-2940
5206 Mc Kinney Robt H ◎ 923-0015
5209 Farmer Clarence T ◎
5210 Burton Jerry J ◎ 923-4009
E 52D ST TER INTERSECTS

326
5612 Pearson Wesley B ◎ 861-6380
5613★Pickens J B ◎ 921-5356
5618★Epperson Greg L 923-1233
5619 Pearson Joseph W ◎
5624 Pearson Elvin B ◎ 923-4496
5625 Jackson Jimmie W ◎
E 57TH ST INTERSECTS

238
PALMER ST —FROM 7800 US HWY 40 SOUTH

ZIP CODE 64129
E 33D INTERSECTS
3305 Bunker Hill Trailer Park 921-5904
Loven Calvin
3306 Vacant
3307★Wheeler Terry
3308 Lewis Wm G
3309 Shopteese Roland
3310★Vick Gary A
33D ST INTERSECTS
3311★Johnson Ken R 921-1016
3313 No Return
3315 Gish Randall W 923-6621
3317★Montgomery J 921-3488
33D TER INTERSECTS
3319 Gothe Ehrle F ◎
3328 Davis Edw C 924-0769
3330 Thomas Georgia
3332★Wilson Thos A ◎ 861-2960
3334★Graf Daryl
3336 No Return
3338★Bratcher Delores L Mrs
3340 Cleveland Fern ◎ 921-6442
3342 Lockhart Billy B pntr ◎
3344 Gorman John A ◎ 921-8672
E 34TH ST INTERSECTS
3431 Vacant
3432 Murray Alfred 924-8808
3433★Bailey Deborah
3437 Freeman Grace E Mrs ◎
3438★Keesher Eliz J ◎ 924-4341
3440★Chitwood Lester 923-8132
3442 Grimm Martin ◎ 861-0557
3501 Blackwell Bill
3502★Sembach John C
3503 Thompson Clarence E ◎ 921-3097
3504★Barnes Jas M Jr
3505 Vacant
3506 Munter Andrew T 861-1470
3507★Pippen Mary
3508 Trimble C A 924-3695
3509 Dyke Rhonda
3510 Caldwell Christina 921-8642
3511★Andrews Robt J ◎
3514 Stone Paul ◎
E 36TH ST INTERSECTS

238
PALMER STREET TER —FROM 1 BLK EAST OF E 35TH EAST

ZIP CODE 64129
3306 Bunker Hill Trailer Park 921-5904
Vacant
3308 Lewis Wm ◎
3310★Humphrey Ted
3312 Jackson Leila
3314★Graham Louis A 861-3196
3316 Schwindt Barbara 921-8706
3318 Perks Author
3320 Lieb Author ◎
3330 Maycox Kathy 924-2568
3417★Smith Alice W ◎
34 ST INTERSECTS
3419 Rashleger Orville F 923-8527
3421★Merriman Randy J
3422 Lieb Jim C ◎ 923-6155
3423 Barryman Rick
3424 Mielkus Mike
3425 Holman James 923-6321
3426 Vacant
3427★Hurst Vicki M
3428 Kain David ◎
3429 Vacant
3430★Little Wm K ◎
3431 Martinez B 921-3753
3432★Abdulwahab Rozi 921-8116
3433 Vacant
3434★Kline C J 861-4823
3435 Glenn W D ◎
3437★Hamic Kim R Mrs
3438 Louthan Bob
3439 True Sandra
E 35TH ST INTERSECTS
3441 Ritchson Jack
3442 No Return
3443★Chuffee Larry L
3500 Greenhaw Joe ◎ 921-0296
3501 Morris Harry D 921-0373
3504★Hendrix Gregory constn wkr ◎ 861-2281
3505 Mc Farland Linda ◎ 861-9375
3507★Gallaway Arthur E
3509 Murray Jimmy C ◎ 861-4671
3510★Hendrix Forest W
3511★Mc Coy Jimmy 923-0739
3513 Parks J
E 36TH ST INTERSECTS

220
PALOMA ST —FROM OPPOSITE 3038 DRURY AV EAST

ZIP CODE 64128
5500 Marchbank Deborah L 923-5764
550 Vacant
5505★Campbell Camey 921-5006
5506★Mc Intyre Robt ◎
Wier J V 921-8619
5508 Saddler Leslie
5510 Yeakey Paul ◎ 921-2341
5515 Bond Fred L ◎ 921-5508
5522 Vacant
OAKLEY AV INTERSECTS
5600★Greenfield Bill ◎ 861-7393
5601 Mitchell F Mrs ◎
5605 Tappley Terry 923-4346
5606 Mitchell Ralph ◎
5608★Nichols Donald 921-3603
5609 Mock D 861-8987
5611 No Return
5612 Studyvin Dorothy J ◎ 861-2548
5615 Badger Maurice ◎
5619 Wiley Blanche M Mrs ◎ 924-7540
5621 Woodward R C Construction Co 924-8280
Woodward Robt C Jr ◎ 924-8280
5624 No Return
5625 Riggs Emmett W ◎ 923-0953
5627 Vansell Larry W ◎ 921-2994
5633 Pearl Floyd W ◎
5636 Martin Larry ◎
5640 Nichols Helen R 923-9454
5641 Cunningham Donald D ◎ 924-6334
5714 Vacant
TOPPING AV INTERSECTS

120
PARADE THE —FROM PASEO TO WOODLAND AV FROM TRUMAN RD TO E 18TH ST

ZIP CODE 64106

503
PARIS ST —FROM INTERNATIONAL WAY NORTH & SOUTH

ZIP CODE 64195
125 City Aviation Dept (Addl Sp) 243-5244
Wackenhut Services Inc (Crash Rescue Oprns K C I)
Airport Safety Office (addl sp) 243-5215
156 U S Postal Serv (Air Mail Facility) 243-5750
MEXICO CITY AV INTERSECTS
BRASILIA AV INTERSECTS
ATHENS AV INTERSECTS
INTERNATIONAL WAY INTERSECTS
241 Gilbert Joe Restaurants Inc (Addl Sp) 243-5700
426 K C I Automotive Service Center 243-5880
MADRID AV INTERSECTS
LONDON AV INTERSECTS
PARIS ST INTERSECTS

152
PARK AV —FROM 2300 ST JOHN AV SOUTH

ZIP CODE 64124
101 No Return
107 Nelson Ida L ◎ 241-3588
109 Childers John A ◎ 483-7231
110 Balestreri Angelo ◎ 421-5654
111 Hackett Robt D ◎
113★Ramirez Luann 483-6842
114 Lawrence Robt J ◎ 474-0548
115★Stewart David L
Upstairs★Cascone M E 483-8882
117 Wright Louie ◎ 483-2520
119 Treece Jerry W ◎ 231-3787
120 Leggio Angelo L ◎ 474-9168
121 Pinkston Anna E ◎ 241-5472
122★Ribaudo Lucy ◎ 474-9238
124 Vacant
126 Hawkins Omar
135 Vacant
PENDLETON AV INTERSECTS
203 Vacant
205 Hernandez Anne ◎ 231-8465
207 Luttrell Victoria P ◎ 231-8136
208 Imperiale Vincent 421-7867
Imperiale Virginia 471-0182
209 Giglio Salvatore ◎ 483-0736
212 Russo Isadore ◎ 471-2663
213 Welch Lena D ◎ 231-3681
217 Balestreri Anthony L ◎ 241-2266
221 Giamalva Louis J ◎ 483-8214
Giamalva Frank A 241-6081
225 Battle Clarence ◎ 241-3284
Upstairs★Barahuan Donna
229 Battle Joe
LEXINGTON AV BEGINS
MINNIE INTERSECTS

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

RICHMOND AVE 1985

RICHMOND AV—Contd
E 13TH ENDS (NOT OPEN)
TRUMAN RD INTERSECTS
E 16TH INTERSECTS
E 16TH STREET TER INTERSECTS (NOT OPEN)
E 17TH INTERSECTS
E 18TH INTERSECTS

242

ZIP CODE 64129
OZARK RD INTERSECTS
E 47TH ST TER INTERSECTS
4726★Riddle James E Jr ◎ 921-2262
4730 Smith Gregory K ◎ 923-3538
4734 No Return
4738 Browton Angela ◎
E 48TH ST INTERSECTS
4800 Miller Maxine M Mrs ◎ 924-7686
4804 Rendon Phillip D ◎ 924-6067
4808 Murrell Jesse Jr ◎
4812★Cagley Wynona F 923-3208
4816 Elkins Paul L ◎ 921-5572
4824 Ellington Ralph R ◎ 924-4486
E 48TH ST TER INTERSECTS
SNI-A-BAR RD INTERSECTS

244

ZIP CODE 64133
6315 Burkholder Ed L ◎ 353-3829
6319 Hollingsworth Turf Farm 356-5416
Hollingsworth Frank E ◎ 737-1372
6320 Spruill C U ◎ 353-5828
6323 Arthur Harvey J ◎
6324 Vacant
E 64TH ST INTERSECTS
6404★Jackson Keith E 356-5432
6407★Nave Richd J L ◎ 358-7413
6418 Vacant
6420 Vacant
6424 Good Fred ◎
6432 Nelson Lawrence C Jr ◎ 356-3027
E 65TH INTERSECTS
6500 Vacant
6501 Hayes Marie R ◎ 356-4349
6503★Strong Ed ◎
6505 Yates Harold E ◎ 358-7169
6507 Stellhorn Raymond ◎ 356-1218
6513 Yates James T ◎ 353-7179
6524 Smith Gary ◎ 358-7593
6601 Ames Lester ◎ 356-5821
6603 Reynolds Verne A ◎ 356-4429
6605 Hicks Larry R ◎ 353-5091
6609 Reid Lawrence ◎
6615 Wilkinson Thelma ◎ 356-9458

246

E 67TH ST INTERSECTS
6706 Kahler Glenn D ◎ 353-8237
6707 Harter Harry T ◎ 358-8113
6708 Sinclair Mike ◎
6709 Anderson Catherine ◎
6710 Worden Burl D Jr 356-5044
6711 Queen Donald R ◎ 353-1471
6714 Holland Phyllis J ◎ 737-0980
6716★Boone P J ◎ 353-4009
6720 Kroger Richd D ◎ 358-0887
6723 Hamer Louis ◎ 358-0469
6725 Smith A K 353-6959
E 68TH ST INTERSECTS
6800 Weber Herman ◎ 356-8518
6801 Northern Ozell ◎
6802 Smith Ross ◎ 737-3067
6804 Schmitz Joseph D 737-0114
E 69TH ST INTERSECTS
6900 Kinworthy Steven W ◎ 353-2913
6901 Knotts Lawrence ◎
6902 Plott Bobby E ◎
6903 Stevens Robt J ◎ 353-3273
E GREGORY BLVD INTERSECTS
E 70TH TER INTERSECTS
7020 Life Tabernacle First United Pentecostal Church 737-2670
E 67TH ST INTERSECTS

247

7144 Jones Robt L ◎ 356-4183
7200 Robinson Vernon L ◎
7204 Davis Lyle C ◎ 737-0262
7205 Spangler F Earl ◎ 353-2374
7208 King Paul G ◎ 353-6836
7209 Robertson K Kenneth ◎ 353-7233
7211 Brown Jas H ◎ 353-6185
7212 Conrad Charles M ◎ 353-8942
7215 Ralls Willard F ◎ 358-9722
7216 Smith Mylin C ◎ 353-5247
7220 Jordan Geo A ◎ 358-8289
7221 Gibson James M ◎ 353-3208
E 73D ST INTERSECTS
7310 Williams Geo ◎ 737-1788
7314 Gant Agnes L 358-8112
7318 Kelly Roosevelt ◎ 358-0290
7326 Williams Wilbert J ◎
7331 Cason Frederick ◎ 358-7815
7334 Shumate Robert Jr ◎ 358-7132
7400 Cunningham Doss E
7415 Vertreese James ◎ 353-6006
7416★Commer Will
ZIP CODE 64138
7520 Dugger Edw A ◎
7524 No Return
7528 Cappo Anthony J ◎
7532 Brown Robt G ◎ 356-5435

418

FAIRWOOD DR INTERSECTS
9313 Bratcher J L ◎ 761-2441
9314 Martin Gloria Mrs ◎ 763-6047
9315 Hiebl Rudy F ◎ 763-6494
9316 Campbell Don ◎ 763-6755
9317 Scardino M F ◎ 761-0814
9318★Pike Judy ◎ 763-7550
9319 Winders Dallas C ◎ 761-0746
9320 Cunningham Ogle L ◎ 763-5924
9321 Seller Donald E ◎ 761-3354
9322★Cunningham Mary A ◎
9323 Bussard Felix E ◎
9400 Sullivan Thos ◎ 761-0603
9401 Vacant
9402 Hudson Louise ◎ 763-4621
9403 No Return
9404 Cousin Sammie ◎ 765-2631
9405 Brown Emma J Mrs ◎ 966-1942
9406 No Return
9407 Strange W Lee ◎ 966-1158
9408★Boswell Richd 966-0993
9409 Hill Dennis L ◎ 966-8398
9410 Bopp Fredk A ◎ 763-5125
9411★Riedesel Glen E 761-7656
9412 Walter Richd J ◎ 761-6146
9413 Northington Billy ◎
9414★Cammel Mary ◎ 761-5194
9415 Moffett C Richd ◎ 763-0528
9416 Garcia Henry ◎ 763-6893
9417 Whitley Fred K ◎ 761-2034
E BANNISTER RD INTERSECTS

420

ZIP CODE 64134
KEMPER RD INTERSECTS
EASTERN AV
9600 Robinson Alan L ◎ 763-2728
9605 Tucker M ◎ 763-8118
9607 Fields Stanley M ◎
9608 Clark Robt M ◎ 763-2793
9609 Arnone Joseph J ◎ 761-5539
9612 Hahnfeld Richd ◎ 763-0995
9615 Moore W Fredk ◎ 761-3545
9619 Joseph F Delon ◎ 966-0461
9700★Norris John R ◎ 761-2057
9701★White E ◎ 765-8766
9704★Norris J R ◎ 761-2053
9705 Moore James B ◎ 761-2163
9708 Foster John M ◎ 761-4987
9710 Creech Harvey R Jr ◎ 761-1397
9712 Noonan Paul A ◎ 761-1771
9713 Hampton Jane E Mrs ◎
9714 Luton Ray A ◎ 763-2776
9715 Marcotte Allan V ◎ 763-1492
9717 Cook Richd M ◎ 763-3299
9801 Smith James L ◎ 761-0588
9804 Kirby Wm W ◎ 765-0372
9807 Moore Claude P ◎
9808 Frank Tom L ◎ 761-3363
9809 No Return
9812 Weiskopf Lawrence R ◎ 763-7582
9815 Roush Cheryl ◎ 765-1810
9816 Benneson John R ◎ 761-6232
9819 Walker Grace E Mrs ◎ 763-5655
9823 Todd Allen G ◎ 763-5759
9900 Edwards Charles E ◎ 763-4620
9904 Rusher Otis L ◎
9924 Bay Terence F ◎ 763-9924
9930★Denzer Andy ◎ 941-2821
9936 Almai Manuchihr ◎ 765-2106
10000 Anderson Aubrey L ◎ 763-5794
10003 Carney Howard ◎ 763-6518
10006 Thompson Kenneth L ◎ 763-2309
10012 Bowen Phyllis A Mrs ◎ 763-2876

422

E 103D ST TER INTERSECTS
10300 Lane Mike A ◎ 763-4692
10301 Jones Geta E ◎ 763-5540
10303 Luvin Ellis C ◎ 763-8629
10304 Gordon Floyd C ◎
10308 No Return
10309★Maddox Cole D
10311★Diehl Ronald A ◎ 966-0177
10312 Rakoski Junetta ◎
10316 Vacant
10317 Kudra Kenneth R pntr ◎ 966-9228
10320 Torode Patricia A ◎ 763-3270
10323 Green Rick ◎ 765-4483
10324 Dickerson Donald W ◎ 763-3192
10401 Faughn Johnny L ◎ 763-4527
10404★Braxton A 765-5738
10405 Dudley Boyd ◎ 761-0648
10408 Libeer Earl L ◎
10409 Caffey Herbert E ◎ 761-0854
10412 Williams Leona B Mrs ◎ 761-5680
10413 Sanders Walter L ◎ 761-0710
10417 Sales Linda A ◎ 763-5075
10418 Komer Ernest W ◎ 763-5588
10420 Ramirez James R ◎ 761-1009
10421★Wisner Steve ◎
10424 Inboden Mike ◎
10425 Yeager Christopher ◎ 765-4873
10427 Russell Thos O ◎ 761-5728
10428 Anderson Kenneth E ◎ 761-3373
E 105TH INTERSECTS
10500 Moretina Donald F ◎ 761-2482
10501 Rickey Emeral L ◎ 761-6740
10505★Strickland Walter L ◎ 761-4592
10506★Salcido Virginia ◎ 966-0515
10508 Vacant
10511 Twaddell Kent 761-2777
10512 Watkins Donald E ◎ 761-1159
10515 Hart Vivian ◎ 763-3674
10516 Crawford Lila M ◎
10519 Hernandez
10522 Neitch Johnnie J ◎ 763-1595
10523 Thomas Earl ◎ 761-2019
10524 Meaney Michl J ◎ 761-7131
10600 Moyer Danny R ◎ 765-5684
10601★Flannery M Jean 761-2344
10604 No Return
10605 Osick Barbara Mrs ◎ 765-4448
10607 Matthews Frank J ◎
10608 No Return
10609 Smith Esther Mrs 763-3164
10610★Antrim Kenneth E 765-5637
10611 Smith Raymond H ◎ 761-0275
10612★Chaney Helen 765-2718
10619 Parker Elmer G ◎ 761-7843
10622 Kenney N ◎ 761-5165
E 107TH ST INTERSECTS

426

E 114TH ST INTERSECTS
11400 Hendershot W Jean ◎ 761-6631
11401 Watkins A E home improvement ◎ 763-6039
11402★Ezzell L 761-1905
11403★Lines Phyllis J ◎ 763-7848
11404 Edwards Mary L Mrs ◎ 763-0673
11405 Anderson Leroy ◎ 761-8987
11406 Blinzler Edw J ◎ 761-6795
11407 Agnelly Jason ◎ 966-0160
11408 Nielsen Everett D ◎
11409★Nelson Dick 432-1810
11410 No Return
11411 Shaw Paul J ◎
11511 Wright John
11413 Vacant
11414 Rhoads Lawrence E ◎ 763-1044
11415 Beeler Ethel M ◎ 765-5915
11416 Miller Larry 761-2475
11417 Baskin James L ◎ 761-0642
11418 Rader Carl E ◎ 761-2230
11419★Jeffreys C 763-5451
11420 Chapman John 763-7460
11421 Scantlin Kenneth L ◎ 761-3729
11422 Hilden Robt D ◎
11423★Green Calvin ◎ 761-2872
11424 Heckart Glenn M ◎ 761-2808
11425 Boone Richd S ◎ 761-8315
11426 Gray Darlene ◎
11427★Kelne Allen 765-4231
11428 Skaggs Eug L ◎ 761-8577
11429 Cochran Virginia C Mrs 763-4073
11430 No Return
11431 Milum Glen V ◎ 966-0636
11432★Main Scott ◎
11433 Rankin Marion ◎ 966-1963
11434 Albee Gilbert ◎ 765-0453
11435 Harness Kevin 765-4681
11436 Wagester James C ◎ 763-1036
11438★Winnie Gary F ◎ 761-7026

608

11501 Kirktown Townhouses Bass
11503★Carter William L
11505★Grinstad Ervin 966-8546
11507 Buetel J Ann M 765-4088
11509 Degraffenreid Ruth
11511★Cartee Larry W 765-6295
11513 No Return
11515★High Eule M ◎ 765-8444
11517★Nunnally Rickey M
11519★Stewart Brian C 966-8649
11520 Kirktown Homes Assn (Club House) 763-6787
11521 Hollowell J 761-8796
11523 Clark Steve E ◎ 761-3817
11525★Ramsey Jessie J 966-9635
11527 Pearson Anita
11529 Moss Zeola 763-8357
11531★Davis Lee
11533★Treamary Phillip
11601★Nigee John
11603 Runyon Brad 761-8410
11605★Batzold Fred J ◎ 763-8443
11607 Alexander Ralph L 763-9756
11609 Hanshaw Carla 765-2852
11611 Hovis P 966-9249
11613 Rule Rodelle C ◎ 763-9310
11615 Krout Richd freelance artist ◎ 765-3280
11617★Brie Rodney O
11619 No Return
11621★Jarvis Brian D ◎ 765-9462
11623 Williams Gerg
11625 Vacant

328

RICHMOND AV N —FROM 51ST N NORTH THEN EAST

ZIP CODE 64119
5016★Utter C R
5020 Rains Calvin ◎ 453-2239
5024 Goodson Clyde E 453-3038
NE 51ST ST INTERSECTS
5100★Deibler Chris M ◎ 455-4638
5104 White Ralph L Jr ◎ 454-5329
5108 Hardcastle Lawrence L ◎ 453-7332
5112 Mc Pike Kenneth ◎ 453-3299
5116 No Return
5120 Vacant
5124 No Return
5128★Lee Wyatt W ◎ 454-5163
5131 Smith Robt F ◎ 454-7048
5132 Shoemaker Mike ◎
5135 Vacant
5136 Miller Robt W ◎
5139★Cecil John R 455-0665
5140 Freeland David ◎ 453-1524
5143 Van Booven Cecil C ◎ 454-6592
5144 Wood David N 452-5526
5147 Clark Joe E
5148 Shafer Wm E ◎ 454-8631
5151 La Poma Don ◎ 453-1342
5152 Jones Don R ◎ 454-6206
5155 Nowak John J 454-4740
5156 Viar Gloria J ◎ 454-7582
5159 Fox Danny G Jr ◎ 452-3341
5160★Crenshaw James W ◎ 454-5031
5163 Kenney Wm L ◎ 452-4121
5164 Dusenbery Oren L 454-1346
5167 Nelson Carolyn
5168 Lafferty P Dennis ◎ 454-9691
5171 Brushwood Kenneth A ◎ 454-3888
5172 No Return
5200 Gray John R ◎ 452-5711
5201 Silvey T L ◎ 454-0212
5204 Cunningham Charles R ◎ 453-5373
5205 Monson W Victor ◎ 454-0726
5208 Moon Marilyn R ◎ 452-5220
5209 Nevins Anthony ◎ 454-5372
5212 Kremer Lorraine E ◎ 453-1150
5213★Witte Kurtis F 454-5859
5216 Payne Ronald L ◎ 454-7139
5217 Crouch Thos B ◎ 454-1279
5220★Osborn Gary L 454-3117
5221 Tuso Lawrence ◎ 455-2486
5224 Nguyen Ngoc ◎ 454-3724
5225★Bailey Dixie Lee Mrs ◎ 453-5352
5228 Mc Taggart James P ◎ 452-5058
5229 Moon Michl B ◎ 454-5952
5232 Vestal Gary L ◎ 453-3778
5233 Blair Dale R artist 454-8854
5236 Sewell Wilbur C ◎ 452-6631
5237 Frost Gregory W ◎
5240★Powell Wayne K
5241 Helms Roger L ◎ 455-3475
5244★Clay L 452-4488
5245 Rush Clarence J ◎ 452-4963
5248 Mould Clive D ◎ 453-7077
5249 Goodman Wm W
5252★Marshall Billy R ◎ 452-3623
5253 Thompson Charles A ◎ 453-0314
5300 Rader Wm ◎ 453-6284
5301 Griessel Donald D ◎ 454-0265
5304 Coil Eugene ◎ 452-8108
5305 Carlson Richd E Rev ◎ 455-3816
5308 Radcliffe Diane ◎
5309 Pearce O Edw ◎ 452-1355
5312 Phipps Jack ◎ 454-7821
5313 Hill Gene H ◎ 455-0575
5316 Moss Ernest P ◎ 455-2495
5317 Crispi Phillip M ◎ 452-7427
5320 S & S Roofing 454-5281
Shewmake Frank E ◎ 455-0512
5321 Campbell Hugh ◎ 452-4472
NE 53D TER INTERSECTS
5328 Mayorga Mario E ◎ 454-5248
5329 Donlon Marlene ◎ 452-3184
5335★Miller Ronald R ◎ 454-2315
5336 Sanders Michl C ◎ 453-5549
5339 Hood Gary W ◎ 452-0404
5342 Moore Henry J ◎
5347 Dickinson Steven D ◎ 452-4986
5348 Lance Carl R ◎ 453-5955
5353 Folker John ◎ 454-5395
5354 Castilleja Pete ◎ 453-2852
5359★Scoville Neil G ◎ 454-4681
5360 Johnson F Wm ◎ 452-1542
5364 Pickarell Wanda L ◎ 453-5653
5365 Gibson Charles C ◎ 452-1731
5369 Sanders Glenn C ◎ 452-7481
5370 Chancellor Duane P ◎ 452-7444
5375 Rogers Howard L ◎ 454-6625
5376 Jones Thos G ◎
5379★Mc Donald Larry D 455-4645
5380 Olson Richd L ◎ 453-2759
5383 Hall Hubey S ◎ 454-3930
5384 Shore Rhonda A ◎ 455-2184
5385 Jones Woodrow F ◎ 453-5038
5386 Jaeger David W ◎ 452-7091
5389 Gardner Dean E ◎ 455-3208
5390★Connor Marvin 454-3821
5393 Adams H Thos ◎ 454-8812
5394 O'Dell Dennis M ◎ 454-2113
5396 Reusch Harold F ◎ 452-2646
5398 Giglio Michl L ◎ 452-6533
5399 Davis Bill R ◎ 452-0074

418

RICHMOND DR —FROM 9208 BLUE RIDGE BLVD EXTN SOUTH

ZIP CODE 64138
9200 Tipton Geo A ◎ 761-1149
9201 Wolf August A ◎ 761-5300
9202 Deveney Joseph ◎ 761-8859
9203 Redel Dale ◎ 765-2873
9204 Vacant
9205 Stewart Phillip P ◎ 966-0683
9206 Curry Stanley W ◎
9207 Rouchka James J ◎ 761-0186
9208 Nault Louis J ◎ 763-2068
9209 Neugebauer Eve Mrs ◎ 761-1940
9210 Garber Michl K ◎ 763-1593
9211★Williams Alonzo pntr ◎ 966-1692
9212 Gillett Donald ◎ 761-5908
9213 Bradley Lloyd Jr ◎ 763-6094
9214 Metz Herman G ◎ 761-1168
9215 Kobets Godfrey S ◎ 761-8205

TP	Adjoining	Source
✓	✓	R. L. Polk Co., Publishers

OZARK RD 1980

NW OVERLAND DR—Contd
8218 Denning Ron ◎ 587-8815
8220 Vacant
8221 Coves Clubhouse 741-7715
8317 Young Joseph F ◎ 741-2936
8323 Henderson Ronald G ◎ 741-9435
8329 Porter Maureen J ◎ 741-3290
8332 Carroll Ralph ◎
8334 Vacant
8335★Butler Darrel ◎
8336 Slaughter W G ◎ 741-9286
8338 Kovac R A ◎ 741-2750
8340 Bauerle Don L ◎ 587-8970
8341 Alvarez Arnulfo ◎ 587-9485
8342 Gibson C A ◎
8344 Meyers Jim E ◎ 587-8144
8346 Brewster V E ◎ 741-3364
8360★Metzgar L L ◎ 741-0882
8362 Jackson V M ◎ 741-9559
8364 No Return
8366 Cardwell Bob ◎
NW 83D TER CONTINUES

325
OVERTON AV —FROM 9700 E 47TH SOUTH

ZIP CODE 64133
4700 Barker Norma L ◎
4701 Seaman Roy A ◎ 358-3507
4709★Mathia David E 356-7931
4710 Arnold Kenneth W ◎ 358-2773
4715 Vogt Tressie Mrs ◎ 353-6929
4716 Roark Marvin ◎ 353-4192
4719 Galbraith Geo R ◎ 358-2994
4722 Vonderahe Eug J ◎ 356-7603
4723 Kremers Henry G ◎ 356-9291
4726 Horan John B ◎ 353-8223
4729 Coulter Shirley A Mrs ◎
4732 Byard H Mike III ◎ 356-1839
4733 Gross Mary Mrs ◎ 353-8645
4736 Ohern Timothy D ◎ 353-3840
4737★Arnold Gene 356-0067
E 48TH ST INTERSECTS
4800 Earley Henry G ◎ 353-2307
4801 Harris Amos ◎ 356-9683
4808 Finn Mickey ◎ 356-1470
4811 Diekhoff Joachim ◎ 356-4773
4814 Allen John E ◎ 356-4620
4817 Gauldin Charles R ◎ 353-3397
4820 Wilson Jack L ◎ 737-2919
★Wilson John R 737-3323
4821 Snow Doyle O ◎ 353-2490
4824 Tudor Walter A ◎ 358-4684
4827 Ferguson Mark A ◎ 737-0316
4830 Browning John R ◎
4833 Burch Vinson L ◎ 356-6499
4834 White F K
4837 Ray Francis C ◎ 358-1164
4840 Briscano Phillip ◎ 358-5445
4843★Bowen Ronald L ◎ 358-5686
4844 Meyers John R ◎ 356-4083
4900 Oster Rose Mrs ◎ 353-6465
4901 Gum Charles R ◎ 356-4181
4906 Winger Geo T
4907 Gross Larry C ◎ 358-9049
4913 Toczek Frank J ◎ 356-2676
4914 Rogers Earl W ◎ 356-0318
4918 Wilson Danny 353-8306
4919 Foley Herbert J ◎ 356-3116
4923 Unruh Gary L ◎ 358-9624
4928 Honeywell Fred J ◎
4929 Noone Wm V ◎ 358-5466
4933 Miller Richd E ◎
4937 Haynes James R ◎ 358-7854
4941 Tomlinson Jessee U 737-2911
EVANSTON AV INTERSECTS
HAWTHORNE INTERSECTS
5020 Johnson Joe K ◎ 353-8837
5021 Siemann John E ◎ 356-5983
5024 Canfield Harriet Mrs ◎ 358-2664
5025 Rieschick Donald D ◎ 353-7768
5028 Smiddy Glen ◎ 358-5567
5031★Spriggs M ◎ 353-5193
5032 Baker Robt W ◎
5035 Musgrave Dorothy J Mrs ◎
5036 Dennis Ronald D ◎ 358-0177
5040 Stone Charles ◎
51ST TER INTERSECTS
5100 Casey D D ◎ 353-4779
5104 Graham Charles O ◎ 353-3479
5107 De Moss Robt L ◎ 358-0655
5108 Angelbeck Paul E ◎ 356-7645
5111 Howard Charles P ◎ 356-5111
5112 Bahan Robt L ◎ 358-0955
5115 Taylor Paul H ◎ 353-6036
5116 Adams Dwight C ◎
5120 Denti Raymond ◎
OVERTON CIRCLE INTERSECTS
5220★Graham Carolyn ◎ 358-5397
5226 Kessler John F ◎ 358-0677
5232 Thomson Harold E ◎ 358-4312
5238 Murdocks
E 52D ST INTERSECTS
5242 Linton Francis C ◎ 356-2883
5248★Hillson Harold ◎ 358-8506
5252 Sirna Pete L ◎ 353-4594
5253 Hill John ◎

325
OVERTON CIR —FROM 5200 OVERTON RD NE THEN IN A CIRCLE BACK TO 5200 OVERTON RD

ZIP CODE 64133
5119 Wagner John D ◎ 356-1455
5123 Mason N E Mrs ◎ 358-0129
5201 Bowers Kenneth C ◎ 353-6207
5207 Davis Leland E ◎ 353-9151
5213 Barker David A ◎ 358-0120

608
OVERTON ST

ZIP CODE 64149
12522 Vacant

616
OVERTON ST N —FROM N LINDENMAN TER NORTH

ZIP CODE 64161
3840 Urness Andrew A ◎

227
OWEN AV —FROM 1000 N PROSPECT AV EAST

ZIP CODE 64120
N CHESTNUT TRFWY INTERSECTS
2800 Baber Wm C 241-7527
N CHESTNUT AV INTERSECTS
N KANSAS AV INTERSECTS
N AGNES AV INTERSECTS
N BELLEFONTAINE AV INTERSECTS (NOT OPEN EAST OF BELLEFONTAINE AV)

238
OXFORD AV —FROM 36TH ST TER SOUTH

ZIP CODE 64133
3601 Day Virgil G ◎ 737-2855
3608★Williams P B 353-0240

430

ZIP CODE 64134
10300 Coker Thos C ◎ 763-4166
10316 Smith Paul H 765-4632
10320 Jaro Donald R 765-2828
10324 Hornaday Richd L ◎ 761-9531
10325 Paine Wm ◎ 761-1859
10500★Connelly Michl ◎ 966-0890
E 105TH INTERSECTS

616
OXFORD ST N —FROM NE 40TH ST NORTH AND SOUTH

ZIP CODE 64161
NE 40TH ST INTERSECTS
Topside Farms
3855 Zemmer Ron ◎ 454-8691
3926★Roger Gail A
3933 Graciano Honoratoh A ◎ 452-0971
4000 Lemasters Danl E 455-2049
4033 King Pansy N Mrs ◎
N E 41ST ST INTERSECTS
4118 No Return

327
OZARK RD —FROM SNI-A-BAR RD EAST

ZIP CODE 64129
7330 Thoms Donald E ◎ 861-0255

242
7400 Eastwood Hills Community Assn Hall 924-9546
7417 Tippie Willis F ◎ 923-3041
7456 Eastwood Swimming Club Inc 923-5575
7501 Galbraith Jeri ◎ 861-8520
7505★Atzmiller Robt J 921-3009
7509 Tschirhart Mary J 921-9454
E 47TH ST TER INTERSECTS
7511 Ballinger James F ◎ 921-7679
7517 Neidinger Steph ◎ 921-1580
7600 Mo Natl Guard 436th Signal Co 923-1102
Mo Natl Guard Hq 110th Engineer Btln 923-1114
Mo Natl Guard 205 Military Police Btln 923-1164
Mo Natl Guard 205 Medics Btln 923-1430
Mo Natl Guard 135 Station Hospital 923-1431
Mo Natl Guard 235th Engineer Detachment
Mo Natl Guard Command And Control Hq 923-1430
7605 Gulledge Robt W ◎ 923-7831
7611 Robinson James E ◎ 923-5491
7621 Nolan Patricia A 924-4731
7627 Price M S Mrs 861-6474
7633 Newell James M ◎ 923-7543
7707 Burdge Keith A 861-6260
7711 Owings Wm R ◎ 924-5404
7715 Nation Gary R ◎ 923-9562
7719 Herrington James W ◎ 923-5979
7801 No Return
7805 Riley Robt A ◎ 861-8409
7815★Jordan Harold E ◎
7819 Sanders Clarence E ◎ 923-0782
7901 Manker Gary ◎
7905 Dierking Robt W ◎ 923-6852
7909 Wasson Dale L ◎ 923-2051
7915 Lading Donald E ◎ 923-8770
7919 Stewart Glen ◎
8100 Municipal Correctional Institution 861-1212

115
OZARK ST (NORTH KANSAS CITY) FROM 1400 E 12TH AV NORTH

ZIP CODE 64116
1203 Cummins Mid-Am Inc ind eng sls serv parts 474-5080
1221 Merico Inc refrigerated dough products 421-2662
1222 Tempmaster Corp htg & air condtg equip mfrs 421-0723
1225 Welco Mfg Co Inc dry wall prod & paint sup mfr 471-1788
1230 Tempmaster Inc (Ship & Rec Docks)
BEDFORD AV INTERSECTS (NOT OPEN BET BEDFORD AV & ARMOUR RD)
16TH AV INTERSECTS (NOT OPEN)
17TH AV ENDS (NOT OPEN)
18TH AV INTERSECTS (NOT OPEN)
19TH AV INTERSECTS (NOT OPEN)
20TH AV INTERSECTS (NOT OPEN)
ARMOUR RD INTERSECTS (NOT OPEN)

229
21ST AV INTERSECTS
22D AV INTERSECTS
23D AV INTERSECTS
24TH AV INTERSECTS
25TH AV INTERSECTS (NOT OPEN)
26TH AV INTERSECTS (NOT OPEN)
27TH AV INTERSECTS (NOT OPEN)

112
PACIFIC ST —FROM 539 CHARLOTTE EAST

ZIP CODE 64106
COTTAGE LA INTERSECTS
CAMPBELL INTERSECTS
910 Holy Rosary Church
911★Corsentino Margt Mrs 471-8317
914 Mc Intire James O Rev 471-8584
★Taylor Gary 474-4487
915★O'Riley T
HARRISON INTERSECTS
1000 Vacant
1003 Apartments
2d Fl Dyer Harold L ◎ 221-5147
1004 Vacant
1009 Argento Louise Mrs 221-6797
★Baranda Teresa 474-7352
Valenti Kate Mrs ◎ 842-3449
★Soto Andre A 842-5378
Cirlineuino Carl 221-9198
1015 Testa Marion J ◎
Bsmt★Gwin Wm J 421-0198
1030 Vacant
GILLIS BEGINS

116
TROOST AV INTERSECTS
1100 Strada Joseph ◎ 421-7934
1113 Cipolla Josephine Mrs 421-1706
★De Grado Francis
1116 Ribaste Peter P 221-6746
1117 Sbisa Angelia Mrs ◎ 842-0598
1118 Locascio Rose M 421-8269
1119 Lombardo Frank ◎ 471-3193
Garcia Anthony R 474-9537
1st Fl★Merlo Francis
2d Fl Lee Roy
1st Fl Soriano Jimmie ◎ 471-2852
2d Fl Ciocciaro T J 842-9604
1122 Sivigliano Sally R Mrs ◎ 221-7046
1st Fl★Palmerter Jeanette
2d Fl Palmentere Virginia Mrs ◎ 471-7253
1124 Nigro Michl A ◎ 221-5748
1126 Termini John R 221-2076
1128 Harris J C ◎
1129 Di Cavolo Salvatore ◎ 221-5148
1130 Manade Mary Mrs ◎ 842-2891
1132 Vacant
1136 Gargotta Rose ◎ 842-7666
Rear Vacant
1138 Apartments
S★Bathalia Toni
Bsmt Bascom Della
Vacant
Rear Serrone Pete A 842-2638
2dfl Donnici Finell M 221-3156
1139 Cammisano Vincent ◎
LYDIA AV INTERSECTS
FOREST AV INTERSECTS

216
PALMER AV —FROM E 16TH SOUTH

ZIP CODE 64126
E 16TH STREET TER INTERSECTS
E 17TH INTERSECTS

418
ZIP CODE 64138
E 93D ST INTERSECTS
9300 Culbertson Randall L ◎ 761-2522
9301 Mc Coy Herbert M ◎ 763-6737
9304 Mc Farland Michl R ◎ 765-2545
9305★Martin Patricia A Mrs ◎
9306 Colvin Lloyd P ◎ 763-3503
9307 Peters James R ◎ 761-2407
9308 Mc Gee Charles Jr ◎ 966-0807
9309 Clarke Keith E ◎ 765-0864
9310 Vacant
9311 Griswold Ellen Mrs ◎ 763-7177
9312 Menke Robt V ◎
9313 Green Ernest ◎ 761-7309
9314 Marshall Roy ◎ 763-8203
9315 Speckels Harry E ◎ 763-8707
9316 Kurtz Mary E Mrs ◎ 761-0976
9317★Bates Richd D ◎ 763-7531
9318 Poole Ronald ◎ 765-5926
9319★Craig Charles E ◎ 763-5398
9321 Brantner Stanley J ◎ 966-8315
9400 Alpough Peter C ◎ 763-2108
9401 Moorehead Arth E ◎ 763-8409
9402 Smith Whitney A ◎ 761-7730
9403 Phillips Floyd ◎ 765-1420
9404 Mc Cune Don ◎ 765-2424
9405 Stuart M F ◎ 761-0521
9406 Gillihan Adrian G ◎ 765-4273
9407★Lynn Steph W 765-2216
9408 Baker Robt L ◎ 761-8830
9409 Thurman Teresa Mrs ◎ 761-9300
9410 Pierce Charles ◎ 761-8285
9411 Mills Clara S Mrs ◎
9412 Shipman James W ◎ 763-7237
9413 Neal John Kevin 765-3289
9414 Rose Robt L ◎ 763-2761
9416★Stewart Robt M ◎ 761-9647
9417 Plummer Anderson D ◎ 761-4076
E BANNISTER RD INTERSECTS

422
ZIP CODE 64134
E 103D ST TER INTERSECTS
10300 Pivot Floyd ◎ 765-4438
10301 Wineteer Larry ◎
10304 Shilt James H ◎ 761-0887
10305 Archigo Barbara ◎
10308 Babylon Max L ◎ 761-2887
10309 Norgren Edw ◎ 761-7435
10312 Harrington L Jean Mrs ◎ 761-2663
10313 Jones Virgil C ◎ 761-2303
10316 Polson Larry E ◎ 761-1831
10317 Underwood R B ◎ 765-3205
10320 Cooper Jesse D ◎
10323 Hummel Robt E ◎ 761-5656
10400 Anschutz Harry W ◎ 761-8637
10403 Leake Keith R ◎ 761-5499
10406 Mc Gee Walter
10409 Newhouse Richd ◎ 765-6952
10410 Holiday Magic Cosmetics 763-5480
Kachel Daniel E ◎ 763-5480
10413 Dent Glen L ◎ 761-3689
10414 Williams Eileen ◎ 761-1792
10419 Ross Robt G ◎ 761-8132
10420 Dunn Robt L ◎ 763-6023
10423★Russell Lyndell ◎ 761-1811
10424 Calegari Bill ◎ 761-2908
10427 Nash Randall ◎ 765-5831
10428 Williamson Michl ◎
E 105TH ST INTERSECTS
10501 Rhone Don ◎ 765-4764
10505 Pope Leslie R ◎
10506 Hawley Donald ◎ 763-7392
10509 Spry Gary ◎ 763-2113
10510 Bobier Geo ◎ 763-6729
10511 Harp Ronald G ◎ 763-0878
10514★Winer Jerry 763-2143
10515 Acers Robt
10518 Chandler David A ◎ 763-5038
10519 Duggar Lloyd M Jr ◎ 763-0543
10521 Kasinac Frank ◎
10522 Gillespie Charles W ◎ 765-2144
10526 Zimmerman Larry ◎ 761-8024
10527 Browns Wilbur L ◎ 761-7371
10601 Campbell Wayne E ◎ 763-0292
10602 Scott Leon D ◎
10605 Dukes Marvin ◎ 765-4281
10606 Metzler John A ◎ 765-7328
10608 Morgan Wm P ◎ 763-5861
10611★Jones Michl ◎ 763-9008
10612 Lombardino Charles ◎ 763-2795
10615 Beer Bernice I Mrs ◎ 761-6728
10616 Foland Wayne R ◎ 761-6010
10619 Murfin Ken 966-8673
10620★Henry Jerry 765-5714
10623 Heckathorn Virgil W ◎ 763-3865
E 107TH ST INTERSECTS

426
RUSKIN WAY INTERSECTS
11202 Buckner Kevin L 765-4165
11203 No Return
11204 Wilmurth Billy F 763-2714
11205 Mathes Wm S
11206 Hobbs Larry L ◎ 763-2626
11207 Corum Lee R ◎ 763-7509
11208 Rookstool Lawrence H ◎
11209 Dewhirst G E ◎ 763-8979
11210 No Return
11211 Laws Lester Jr ◎ 763-4259
11212 Brown Richd D ◎ 765-3183
11213 Powell Helen G Mrs ◎ 761-1761

TP	Adjoining	Source
-	✓	R. L. Polk Co., Publishers

47TH ST TER E 1980

E 47TH ST TER—Contd

94

FLORA AV INTERSECTS
1601 Brown Treaver ◎ 861-9331
1722 Williams Louise Mrs ◎ 921-8754
1723 Crowley Charlena Mrs ◎
1729 Menter Barbara ◎
1732 Sharpe Ester 921-2862
1733 Porter Earsa L ◎
1734 Pless Wm 921-0236
1735 Johnson Lloyd E ◎ 861-5634
1736 Vacant
1737 Vacant
1741★Howell Angela 924-9310

132

WOODLAND AV INTERSECTS
ZIP CODE 64130
1800 Douglas Ora
Taylor Michl ◎ 923-9682
1801 No Return
1802 Pautz Harvey W ◎ 924-5429
1803 Shoemaker Lloyd M ◎ 924-0890
1804 Jones Ethel M ◎ 921-8257
1810 Rogers Robt J ◎ 921-4608
1811 Farris Arth M ◎ 924-0206
1812 Hickle Austin M ◎ 924-8831
1816 Kelley Millard E ◎ 921-3108
1819★Morrison P D ◎ 923-2375
1820 Neidert Josephine B Mrs ◎
1821★Anderson J M ◎ 921-5527
1823 Coleman Easter Mrs ◎
1824 Phillips Alberta Mrs ◎ 861-3130
Chism Geraldine L Mrs ◎
1827★Jackson Landis ◎ 861-2010
1828★Jordan A 923-6024
1832 Vacant
1833 Simpson Nina D Mrs ◎ 923-5214
1834 Powell Ray A ◎
1844 Fogt Emma S Mrs ◎ 921-5392
EUCLID AV INTERSECTS
2005 Masters
2009 Johnson Don P ◎ 924-1840

136

BENTON BLVD INTERSECTS
3702 Benton Manor Apartments 923-4795
100 Pickens Weldon J
101 Hopkins Ann E
102 Turner Lillie M 861-7693
103 Hoskins Wallace F 921-0953
200 Jordan Barbara A
201 Everett E L 924-8021
202 Moore Sally M 861-2512
203 Vacant
3703 Apartments
100 Cobbins
102 Office 923-4795
103 Vacant
200 No Return
201 Madison
202★Conley Jas 921-2294
203★Ralls G L
Bsmt★Green L 923-0170
3704 Apartments
100★Fairly Anna J
101 Cain Linda J 861-4241
102★Madlock Charlie D 861-7448
103 Warren Euall 923-9397
200 Walton Johnnie
201 Holiday Gladys
202 Brown
203★Strickland Warren 861-0167
3706 Apartments
100 Winston
101★Faceson Carolyn 861-2633
102 Tate
103★Buchanan Lee
200★Carroll P C
201 Patterson
202 Smith Alain 861-6746
203 Vacant
3707 Apartments
100 Copeland
101 Robbins Floyd
102 Young
103 Reed Geo 923-4194
200 Triplett Gladys E 924-3613
201 Shilds
202 Reese
203★Edwards Harold J 921-9853
3708 Apartments
100 Payne Geo 923-7471
101★Adkins Maurice
102★Williams Renee C 921-3855
103★Pathak Satish M 923-8207
200 Watson
201★Mc Farland Jacqueline 861-0308
202 Bell
203 Coker Rhonda 921-4190
3710 Apartments
100★Love Rodney D 924-0293
101★Penn Larry C 923-5942
102 Jackson Jas W 924-7608
103★Swan Wayne
200★Coker Darrell M 861-1312
201 Stewart Donald 924-9014
202★Baldridge V 924-7210
203 Harrell
3711 Apartments
100 Jackson Erma
101 Brown Geo
101 Vacant
102★White Leonard Jr 861-5095
103★Johnson Phyllis E
200 Gatewood

94

201 Mc Clair Patricia S 861-0514
202 Gordon Angie B 923-9449
203 Jackson
3712 Apartments
100 Hughes
101 Clark
102 Ashley
103 Mitchell Deborah 861-7269
200 Frazier
201 Johnson Kenneth 923-3447
202 Vaughn
203★Carroll Elmer 924-2380

185

CLEVELAND INTERSECTS
3800★Dukes Erma D ◎
3804 Johnson Richd J Jr ◎ 861-1302
3808 Hardley Hershell ◎ 923-4298
3812 Ellison Callie Mrs ◎ 921-4714
3900 Jordan Ideal ◎ 921-2292
3904 Littlejohn Alex ◎ 924-4566
3908 Brown Fred D ◎ 861-5674
3912 Wesson Sammy ◎ 861-2322
3916 Oates Herman ◎ 924-4281
3920 Rainey Henry L ◎ 861-6316
3924★Parker Chas ◎ 861-4792
3928 Norman John H ◎ 861-2348
3931 Estis Lee S ◎ 923-6672
3932 Thompson Rosalie C Mrs ◎ 923-2698
3935★Oliver James 923-8854
3936 Minner James E ◎ 924-6921
NORTON CIR INTERSECTS

327

ZIP CODE 64129
6700 Lauderdale Wilber A ◎ 861-5702
6950 No Return
6954 Madsen Harry F ◎
6960 Modlin Fred L ◎ 924-1939
★Masters Becky 924-0346
6964 Bagshaw Max ◎ 924-4323
6970 Monsees Gary B ◎ 923-2736

242

RICHMOND INTERSECTS
7600 Meier Ruby M Mrs ◎ 921-2824
7601 Mc Kinney Allis Mrs ◎
7605 Warden Lloyd E ◎ 921-3453
7608 Biles Robt K ◎ 861-8223
7611 Harter Greg ◎ 861-3834
7614 Mc Mahon Wm C ◎ 921-7286
7617 Baker Rick ◎ 923-9610
7618 Nance Michl D ◎ 924-4256
7623 Smith Louis E ◎ 924-5722
7624 Van Ness Wanda J Mrs ◎ 923-6056
PALMER INTERSECTS
7700 Guthrie Theo L ◎ 923-8837
7701 Jones Richd L ◎ 861-5814
7705 May Mildred ◎ 861-5745
7706 Leeper Jess ◎ 861-7354
7709★Abbott Neal
7710 Nercier Peter S
7714 Crook Wilber L ◎ 861-6740
7715 No Return
7719 Turner Richd D ◎ 921-9139
7800 Rasmussen Wayne L ◎ 923-9657
7801 Vacant
7804 Wright Gordon S ◎ 921-6627
7805 Smith Clarence ◎ 861-3152
7809 Sofia Jack D ◎ 923-8077
7812 Casey Danny ◎ 923-0385
7815★Reed Debbie ◎
7816 Sullivan Robt L ◎ 921-4618
7819★Henik Robby 921-8349
7900 Morgan Thelwood ◎
7901 Howell Lee L ◎ 861-0820
7904 Vacant
7905 Thompson Truman ◎ 921-6501
7908 Watson M G ◎ 923-7676
7909 Johnson Tom ◎ 861-8445
7912 Edwards Joe W ◎ 861-6710
7915★Tritico Martin ◎
7916 Clawson Theo E ◎ 861-2248
7919 Heckman Tom ◎ 924-5008
SYCAMORE INTERSECTS
8300 Giffin Clint ◎ 924-1721
8301 Wesner Ricky D ◎ 921-7491
8304 Brockman Virgil L ◎
8305 Brown David L ◎ 923-2362
8308 Vacant
8309 Hutchison Daisey H ◎ 923-8007
8400★Underwood W A 921-5486
8401 Evans Charles P ◎ 921-9674
8404 Boynton Joe A ◎ 861-6554
8405 Hendricks Henry M ◎ 921-2493
8408 No Return
8409 Fussell James ◎
WALLACE AV INTERSECTS
8500 Rindom David E ◎ 923-4830
8501★Bennett Charles E ◎
8502 Jackson Elza ◎ 921-8373
8505 Mc Henry Stanley ◎
8507★Henslee Ron
8508 Sims John L ◎
8511 Clemens Raymond L ◎ 924-9115
8512 Matthews Alexander
8515 White Volney B ◎ 921-7942
8516 Cunningham Frank E ◎ 924-4737

241

ZIP CODE 64133
STERLING AV INTERSECTS
11200 Cox Steven R ◎ 356-7946
11204 Cox Tracy E ◎ 353-1393
11207 Mc Mahon Michl G ◎ 353-5048
11208 Lemberger John O ◎ 353-1209
11211 Renner F Irene Mrs ◎ 358-1315
11212 Bellman Naomi Mrs ◎ 356-5335
11215 Kerby John E Jr ◎ 356-0409
11216★Kawalski Joe ◎
11219 Rice Joe L ◎ 353-4926
11220 Stevenson Warren L ◎ 358-1281
11223 Harper Robt A ◎ 353-4421
11224 Hartman H Geo ◎ 353-4434
11227 Wait Herbert R ◎ 356-0938
CLAREMONT AV INTERSECTS
BLUE RIDGE BLVD INTERSECTS
12003 Knoche Louise H ◎ 358-4881
12005 Colbert Hazel M Mrs ◎ 353-0598
12007 Price Clifford C ◎ 353-3224
12009 Lane John W ◎ 356-2359
CITY LIMITS

362

47TH ST TER NE

ZIP CODE 64116
1000 Ford Howard L ◎ 454-1152
1101 Young Men's Christian Assn Clay-Platte Br 453-6600

375

ZIP CODE 64117
2600★Jones Jay T ◎ 455-0521
2603★Engle Clifford J ◎
2606 Spiedgen Michl ◎ 453-2193
2607 Lowe Victor E Jr ◎ 453-1880
2610 Harra Keith W ◎ 454-7624
2615 No Return
2616 Durlacher David F ◎ 452-3393
2619 Crane Bill J ◎
2622 Clark James O ◎ 452-6556
47TH ST INTERSECTS
2700★Martin Donald R 454-2929
2704 Duffy Joseph L ◎ 452-8031
2722 Whiteaker E Harold ◎ 453-4395
2727 Farris Earl L ◎ 452-9125
2804 Auld Edw A ◎
2807★Myers Steph D ◎ 452-1271
2810 Pantin Delia Mrs ◎ 452-5215
Heater Don 454-9755
2814★Borchers Blaine ◎ 452-1854
2820★Leist James 453-0208
2824 Shurback Dorothy S Mrs ◎ 452-6063
2828 Rogers Albert L ◎ 452-0777
2832 Stewart Alfred J ◎ 454-7742
3201 Cannova Saml J ◎ 452-3201
3206 Latona Victor W ◎
3207 Ruckh Charles W ◎ 453-2645
3212 Shour Herbert H ◎ 452-5622
3213 La Clair Eug G ◎ 453-5913
3218 Cannova Carl ◎ 455-3666
3219 Nordine Geo ◎ 452-0460
3224 De Ghelder James J ◎ 453-4122
3225 Carriker Glenn A ◎ 454-1700
3231 Withrow C Ray ◎ 453-0748
3237 Gray Robt J ◎ 452-7175

374

CHOUTEAU TRFWAY INTERSECTS
NE CHOUTEAU DR INTERSECTS
3500 Azzarelli Joseph ◎ 452-4928
3501★Barker M 454-7386
3504★Mc Clelland Gus ◎
3505 Vacant
3506 Wasser Otha M Mrs ◎ 454-1374
3507★Pummill James L ◎ 453-3691
3510 Jenkins David O ◎ 453-7998
3511 Vogelbaugh Kenneth E ◎ 452-6523
3512 Salucci Anthony C ◎
3513 Smith Clifford G ◎ 452-7919
3516 Slater Markalee V Mrs ◎ 454-0225
3517 Voyles James R ◎ 454-3299
3518 Kaul Kenneth E ◎ 452-5831
3520 Blair Jack P ◎ 453-5802
3521★Williams Charlie R Jr 452-7713
3525★Corsentine Frank T ◎ 454-1114
N SHERWOOD DR INTERSECTS
3600 Ray Joseph V ◎ 454-0971
3601 Duston Glen ◎ 452-9205
3609★Evans Earl V 453-4518
3610 Regan Thos J ◎ 452-5138
3616★Wilkenson Peter B 455-0962
3619 Shull James W ◎ 453-5278
3622 Erbacher Philip J ◎ 452-9389
3625 La Rocca Frank J ◎ 454-6798
3628 Lo Porto Frank ◎
3631 Vaughan Ray A ◎ 453-0469
3634 Ludwig Kenneth A ◎ 454-7881
3637 Russo Mary ◎ 453-5349
3640 Jackson Richd D ◎ 452-0141
3700 Sigler William E ◎ 452-8234
3701 Stephens Joe W Jr ◎ 454-3748
3707 Shaw Robt E ◎ 453-3896
3708 Russo Vito S ◎ 453-6746
3713 Pernice Rudolph J ◎ 453-5840
3714 Rhodes Gerald L ◎ 454-6615
3719 Whitt Donald R ◎ 454-3457
3720 Carroll Jay G ◎ 452-6003
N CLEVELAND AV INTERSECTS

333

N ELMWOOD AV INTERSECTS
4530★Evans Mable 455-0485
4600★Bingham Frank ◎ 455-0697
4603★Eckert Doug W ◎
4607 Whitfill Wm R ◎ 452-9375
4610 Neil Betty J ◎ 452-8048
4612 Diggs Glenn L ◎ 454-4963
4613★Ruechert Terry ◎ 455-0896
4617 Thompson John ◎ 454-0161
4620 Rice Robt D ◎ 455-3587
4621★Garretson David A ◎ 455-0411
4700★Wade Alan C 452-4360
4703 Robertson John E ◎ 455-2390
4707 Hart Norman D ◎ 453-4513
4708 Waugh Walter L ◎
4711 Kimball F Lucile Mrs ◎ 452-4680
4712 Johnson Eric E ◎ 452-7191
4716 Wiggins Alline Mrs ◎
4717 Paniaqua Vincent C ◎ 454-6671
4721 Loos Lynn E ◎ 452-2762
LISTER AV INTERSECTS
4800 Frost Velma E ◎ 453-1716
4801 Vann Barbara 454-9622
4805 Thompson Jennie ◎
4810 Barfoot Dennis ◎ 454-0788
4811 Moeller John R ◎ 453-7366
4814★Urton Riley Jr 454-6942
4815 Porter Richd D Jr ◎ 452-0237
4818 Simpson Keith H ◎ 454-0759
4819★Burge Edw 454-5333
4822 Gensheer Thos ◎ 453-0073
4826 Andregg Michl T ◎ 455-3773
4830★Bennett Kenneth ◎

380

NE BRIGHTON INTERSECTS
5102★Miller Brian 454-6730
5103 Mc Coy Wm O ◎ 454-2937
5109 Chilsam Clarence Jr ◎ 454-0105
5120★Summers Michl L ◎ 454-3086
5121 King Earl L ◎ 453-3216
5200★Carver Pam
5220 Vanskike Harry A ◎

68

48TH ST E —FROM 4800 GRAND AV EAST

ZIP CODE 64112
212★Bouphanowong Banthoo 931-5645
214★Stoeklen N 753-4842
216 Vacant
218 Vacant
220 Vacant
MC GEE ST INTERSECTS
301 Mazur's Meat Market
301½ Vacant
302 Mirror Plaza Apartments
★Sommer M 931-9673
303★Schutte H
304★Minton J
Bsmt★Kappel R
305 De Vault Mike 561-9249
306★Unger F
Krueger Lavern E 561-8821
308★James T
★Leon Maria T 561-5722
309 Reynolds Fletcher P 931-6971
310 Abbott Lyle W 931-3262
311★Vought Challenger 931-6947
★Cassandras Charles T 931-7996
312★Myers Kerry
315 East Lake Apartments 363-5509
101★Pittel Mike
102★Bazekij Costal
103★Stillman G
104★Lyons B
201★Hurst S A 931-7944
202★Timbrook Dan
203★Schlintz J L 561-2821
204★Strieker Phil
301 Vacant
302★Serra Anthony J
303★Sustedt R 561-0068
304★Schmid H
316 Apartments
1 Lutjen G 753-3311
2★Price Bonnie
3★Everly T 561-2312
4★Pinkerton Pa
5 Troxel P S 561-0148
6★Browder Wm D
318 East Lake Apartments
1★Hughes Carol
2 Von Unwerth L
3 Orlett C
4 Charlton S D
5 Vacant
6 Vacant
319 East Lake Apartments
Bsmt★Weinrich W R
101 Lebofsky Steven 753-1123
103★Gallagher M
104★Fallon Barbara M 531-8348
201 Levy J
202★Westermann S
203★Gardner Bekki
204★Van Cleave L
303 Moore Lynda 561-8976
304★Linderer Dan
321 East Lake Apartments
102★Glasnapp R
201 Vacant
202 Vacant
301★Sloat V M
302★Houston Kevin
ZIP CODE 64110
OAK ST INTERSECTS
LOCUST ST INTERSECTS
ROCKHILL RD INTERSECTS
HOLMES ST INTERSECTS

TP	Adjoining	Source
-	✓	R. L. Polk Co., Publishers

48TH ST E 1980

E 48TH ST—Contd
704 Gardner Harry D ◎ 561-4386
705★Carter Patricia 753-1931
Chen S G 561-0489
708 Parker Wm H 756-1110
712★Rush Eldon L 753-3861
716 Austin Walter ◎ 561-5068
720 No Return
CHARLOTTE ST INTERSECTS
02★Morris N 561-4613
802 Deleersnyder Dave 561-2868
805 Byrne John E ◎ 931-0274
ZIP CODE 64119
808 Van Houten David 531-5477
809★Reid Mary 531-1355
811 Vacant
815 Hartford Arms Apartments
Bsmt Vacant
1★Smith Norma J
2★Lubar T
3 Vacant
4 Balding Stella M Mrs 561-8114
5★Davilo Norbil
6 Lagerberg Brian
20 Singleton M G
21★Rivera C
22★Carey Phil E 561-0058
23★Fountain Dennis
24★Goering H
25 Caprefoli Paul J 561-5457
26★Maruska Kathy 753-0029
27★Fogel Andrew B 756-0690
30★Cupp Gregory
31★Rosey Carl
32 Callison Charles S 931-6625
33★Greene Arth I II
34★Oko L
35 West C
36 Smith Tony L 531-5638
37 Lawrence Philip F 561-4328
STREET CONTINUED
816 Maisch Emma D ◎ 561-2065
★Rickman Tom L 341-1252
819 Hartford Apartments
1 Vacant
2★Brown Caleb
3★Bayoh F A 931-2191
4★Beck C E
5★Merry James
6★Skinner Thos
7★Butler James O 561-2619
8 Johnston Wm M
9★James Charles S
10★Hurt J 561-5980
11 Parson Randy 753-0474
12 Vacant
14★Carr P 756-2145
15★Kinfe Job
16★Oswald John
17★Chamberlain Steve 931-3784
18 Pearson C
19 Vacant
20 Vacant
21 Martin V S
22 Coates Wm S
23 Lane Russell
24★Shears Louis H
25★Sims Greg J
26★Primers Sylvester
27★Schmitt Wm E
28★Smith Sheila R
29★Schultz John
30 Vacant
31★Venable Thos
820 No Return
901 Pulley Bros Inc whol florists 931-1312
909 Leary Kathleen 753-8505
909½ Vacant
912 Forty Eight Street Auction 531-0670
913 Stoughton
914 Burt & Associates prntrs 756-1240
915★Macomber L F 931-2579
916 Middleton Apartments
101 Vacant
102★Wesvlak John
103 Snow Jerry L
104 Vacant
201★Spies J
202 Vacant
203★Kolb Ronald
204 Vacant
205★Braden Ann
STREET CONTINUED
917 Harrison Evelyn Mrs ◎ 753-6917
922 Art Research Center (U M K C) non profit org 531-2067
922½ Ellmaker Charles F Jr 531-9692
HARRISON ST INTERSECTS
1000 Vacant
1002 Williams Dick Jewelry 561-3223
1004 Kaye's Rockhill Bar 753-9130
1006★Fisher Jim
1008 Leon's G & R Body Shop auto body repr 531-8078
1016 Cebis Corp mfrs agts 561-4010
Seek-A-Leak Inc leak detector mfrs 561-0350
Power Tool Repair Co 561-0622
1018 C & S Drilling Corp 561-4010
TROOST AV INTERSECTS

94
1110 U M K C physics dept 276-1604
1122 U M K C eng dept 276-1672

132
(NOT OPEN BET FLORA AV AND WOODLAND AV)
WOODLAND AV INTERSECTS
ZIP CODE 64130
1800 Scott Elenora 861-6197
1801 Dozier Carl
1803 Farris George H ◎ 921-4508
1805 No Return
1806 Summers Dassie D ◎
1807★Graves D E
1809 Hoover Lee ◎
1810 Vacant
1811 Wright Willy F 921-8320
1814 Johnson Wm C ◎
1821 Moore Alice M Mrs 924-3472
1824 Thompson Muriel C ◎ 924-6381
1826 Gibson Oscar J ◎ 924-9248
1827 Madden Wm B ◎
1828 Theus Ed ◎ 923-0475
1830★Williams Edna R 923-7534
1831 Little Walter M ◎ 923-8955
1834 Mc Gee Lewis Rev ◎ 924-5024
1836 Hughes Anita P ◎ 923-1047
1844 Preciphs John L Rev ◎ 924-6581
1845 Lollis Carl ◎ 861-6396
EUCLID AV INTERSECTS
2000 Colemane Glenda ◎
2008 Kelly M 923-3005
2011 Duchardt Fredk A ind consultant ◎ 921-7022
2016 Birmingham
2020 Esery Sharon ◎
2026 Ford Kenneth R ◎ 861-9237
2029★Simmonss Theresa ◎ 861-3316
★Levels F 921-5117
2041★Hinton Edw 923-3464
2045 No Return
BROOKLYN AV INTERSECTS
PARK AV INTERSECTS

185
SPRUCE AV INTERSECTS
KENSINGTON AV INTERSECTS
CYPRESS AV INTERSECTS
4502 Peeler Larry L ◎
4510★Williams Tyrone A
4516 Smith Ruth L ◎ 921-5934
ELMWOOD AV INTERSECTS
LAWN AV INTERSECTS (NOT OPEN)
LISTER AV INTERSECTS (NOT OPEN)

242
ZIP CODE 64129
7600 North Ward F ◎ 921-6325
7601 Derk Timothy A 921-2194
7605 Cartwright Jim ◎ 924-6187
7606★Jenkins Anthony ◎ 861-0936
7609 Derks Earl A ◎ 923-7422
7610 Jackson Wm S ◎ 923-6356
7614 Mackey Richd ◎
7615★Hoover Priscilla D 924-4969
7618★Mitchel Debra ◎ 924-0374
PALMER INTERSECTS
7704 No Return
7705 Wills Joyce ◎ 923-7773
7710 Lunn R ◎
7711 Hanenberger Carl R 923-9147
7716 Zimmerman Robt C ◎
7717 Givens James H ◎ 923-8133
7800 De Basher James R ◎ 924-7353
7801 Seaton Elbert J ◎ 923-2179
7806 Robinson James E 921-1237
7807 Baylor Dale E ◎
7812 Wilson Robt C ◎ 924-1678
7813 Joyce Hazel M Mrs ◎ 924-8204
7816 Beaty Larry M ◎ 923-1771
7817 Cretel Roland H ◎ 921-7278
7900 Gray Vernon 923-4045
7901 Sanders Charles R ◎ 921-3236
7906 Rockers John J ◎ 921-4486
7907 Younts Alta M Mrs ◎ 924-7946
7911 King Ivan D ◎ 861-4608
7912 Weber Richd L home remodeler 923-7120
7915 Wiggins Tom 923-2129
7916 Neves Gerald M ◎ 923-0215
7919 Wiles Jack L ◎ 861-2808
7920 Veidick James F ◎ 921-1265

241
ZIP CODE 64133
STERLING AV INTERSECTS
11201 Lilyhorn Theo R ◎ 358-0440
11205★Mattingly Alan ◎ 358-4401
11206 Goodman Geo ◎
11209 Schroeger Eulalia A Mrs ◎ 353-8910
11210★Johnsons John R 358-9260
11214 Neece Maxine E Mrs ◎ 353-0139
11215 Matney Robt E ◎
11218 Silvius Myron D ◎ 356-4811
11219 Nystrom Harry B ◎ 353-6865
11222 Aldridge David ◎ 358-0806
11223 Dennis Milton A ◎ 737-0086
11226 Price Albert L ◎ 356-1595
11227 Davis Effie R Mrs ◎ 353-4983
11231 Malewski Charles W ◎
CLAREMONT AV INTERSECTS
VERMONT AV INTERSECTS
NORWOOD AV INTERSECTS
11701 Lambros Geo S ◎ 737-3237
11703 Allen Terry V ◎ 358-2966
11706 Runkle Jerry C ◎ 737-2598
11707 Pilsl Paul M ◎ 353-4814
11714★Chatfield Daisey L ◎ 358-8343
11800 Cosentino Jerome J ◎
11801 Winbigler Glenn P ◎ 353-5540
11804 Mc Pherson Eavin M ◎ 356-2033
11805 Howe Ronald ◎ 358-4070
11808 Bray Earl E ◎ 353-5682
11809 Carmack Walter E ◎ 353-2519
11812 Taylor Davis D ◎ 356-3327
BLUE RIDGE BLVD INTERSECTS
12001 Hill Victor A ◎ 353-0330
12002 Buchholtz Howard J ◎ 356-2813
12003 Yocum Richd L ◎ 737-1961
12004 Shelton Douglas E ◎ 356-4859
12005 Hixson Meredith ◎ 737-2372
12006 Brown Frances Y Mrs ◎ 353-0278
12008 Hammontree Danl C ◎ 356-1378
CITY LIMITS

442
ZIP CODE 64136
15200★Stevens Roy A ◎ 373-8365
15204★Birch Gary W ◎ 373-6743
15205★Hill C E ◎ 373-0783
15208★Atherton James E ◎ 373-8495
15209★Bermudez Donna M 373-9478
15212★Russell Denny G 373-7625
15218★Novak Richd P ◎ 373-7571
15219★Neyhart Lyn 373-6589
15300★Novak Gregory L ◎ 373-8718
15304★Luther Michl D ◎ 373-6931
15305★Rathbun Annette ◎ 373-1547
15308★Turner John E 373-8152
15309★Clark Walter J II ◎ 373-7781
15321★Alsup Robt L 373-0676
15315★Stirts Mike 373-1837

362
48TH ST NE
ZIP CODE 64118
2018 Ballard Helen F ◎ 453-1154
2104 Finney Gordon J ◎ 455-3416
2112 Gadd Myrtle L ◎ 452-1793
2117 Northgate Junior High School 453-2250
2120 Evans Monty J ◎ 454-5131
2128 Cuthbertson David D ◎ 452-8501
2200 Dillingham D Mack ◎ 452-8500
2201 Wolfe Velda B ◎ 452-9622
2214 Short L Clyde ◎ 452-0533
2215★Bossert Albert T 454-1845
2216★Schmalz Norman A Jr ◎ 452-8297
2217 Contreras Jerry 452-9226
2226 Mc Donald Paul W ◎ 454-1085
2323★Cox Ronald L 452-1679
2401 Harris Everett E ◎ 454-9008
2405★Parker Phillip ◎ 454-0547
2409 Nanneman Charlene M
2414 Bray Jack E ◎ 452-8566
2420 Baker Edw M Jr ◎ 454-6097
2426 Bullin Joseph H ◎ 452-4520
2432 Edinger Robt J ◎ 452-1092
2436 Wortham Lloyd G ◎ 453-4548
2501 Gill Freda Mrs ◎ 452-6070
2509★Mc Gowan Richd D ◎ 455-1301
2515 Weinzerl Gary 454-8183

374
ZIP CODE 64119
NE CHOUTEAU DR INTERSECTS
3405 Miquelon Joseph P
3408★Hoppers Sharon L ◎ 453-7977
3409 Miller Jean A ◎ 452-0857
3412 Dennison Le Roy D ◎ 452-1947
N BALES INTERSECTS
3413 Berglund Larry ◎ 453-2045
3417 Mitchell Jack N ◎ 453-2864
3421 La Rocca Salvatore J ◎ 453-1281
3426 Cheesebrough Joseph P ◎ 452-6023
3433 Green Billy D ◎ 452-8965
NE SHERWOOD DR INTERSECTS
3501 Wayman Rex L ◎ 453-2825
SHERWOOD ST INTERSECTS
3508 Sexton Charles E ◎
3509 Manley Warren O ◎ 452-5975
3514 Fuson Nancy C ◎ 454-4033
3515 Sauro Peter F ◎
3522 Sundal Jasper J ◎ 453-2641
3523 Bolewski Ted J ◎ 453-4697
3600★Holzman Larry M ◎ 454-7134
3601 Zimmerman John E ◎ 453-2294
3605 Kuhn Warren J ◎
3606 Altenburg W ◎
3609 Wunsch Robt E ◎ 453-6519
3610 Adams Lucille M Mrs ◎ 453-4482
3618 Miller Edgar J ◎ 453-7578
3619 Edson Douglas W ◎
3624 Duan Allan F ◎ 453-4758
3625 Como Christopher M ◎ 453-2625
3700 Berglund J K ◎ 452-0595
3709 Yates J H ◎ 453-5419
3718 Bower Richd C ◎ 453-2049
3719 Stover Rex ◎ 454-6411
3725 Mutti Albert F 454-3461
3740★Incaprera Frank J ◎ 452-4452
3744 Jones Byron W ◎ 454-6828
N CLEVELAND AV INTERSECTS

333
4601 Harris Mike ◎ 452-8742
4611 Gusman John E ◎ 454-8252
4621 Nugent Tom Jr ◎ 453-1084
4701 Mihlfeld J S 452-9135
4711 Halliburton Virginia ◎ 454-5191
4715 Hey Robt 454-2387
4717 Matthys Marshall J ◎ 452-4443
4720 Vacant
N LISTER AV INTERSECTS
4800★Strang Chester ◎ 453-4800
4805 Klomp Anna B Mrs ◎ 452-6694
4815 Logan Willard T 455-2314
4831★Harris Brigette 453-7815
4901★Fowler Wm ◎ 454-4447
4936★Barber Jodie R ◎ 452-8054

380
N BRIGHTON INTERSECTS
5010 Pontilion Nellie L Mrs ◎ 454-4032
5015 Sharp Louise K ◎ 452-6186
5018 No Return
5105 Welsh Jerry K ◎ 452-2472
5106 Smitherman Hallie E Jr ◎ 452-1941
5107 Ireland C Victor ◎ 452-0137
5108 Vacant
5110 Draper Milford A ◎ 452-9053
5113 Layton Carl ◎ 453-4179
5116★Bowman Gerald L 452-4272
5119 Mc Intire Wm L ◎
5120 Carlson Clarence R ◎ 453-4640
5200 Bellamy Wm T ◎ 454-3102
5201 No Return
5206 Roseler Albert D ◎ 454-0721
5212 Wells Raymond E ◎ 453-6493
5213 Perry T ◎
5219 No Return
5221 Caples Veryl L ◎
5222 Smith Gladys L Mrs ◎ 452-6182
Manske Juanita J ◎ 453-6816
5224 Grimes Eva E Mrs ◎
5308★Harper Devin K 452-3956
5311 Henderson John ◎ 452-9011
5312 Vacant
5314 Ricketts B D ◎ 454-1458
5402 Koenemann John ◎ 452-7211
5406 Smith Emro E ◎ 452-6361
5410 White Perry L ◎ 453-0735
5419 Pierce E C Mrs ◎ 452-9085
N DRURY INTERSECTS
5500 Dollins John A ◎ 452-2567
5505 Morgan Michl J ◎ 454-8541
5506 Esmond Bob ◎ 454-6123
5517 Blackwell Charles W ◎ 453-4560
5518 Tipton Melvin L ◎ 454-9091
5520 Smith Sandy
5535 Coleman Charles E ◎ 452-3186
N OAKLEY AV INTERSECTS
5611 Totman Donald R ◎ 453-4808
5612 Garamillo Larry ◎ 454-4380
5615★Blackman Larry ◎ 454-5343
5620 No Return
5700 Gash Raymond E ◎ 452-8830
5710 Moore Rod D ◎ 455-0613
5712 Funk Carroll E ◎ 452-0704
5720 Cunningham Robt L ◎ 454-1710
N TOPPING AV INTERSECTS
5815 Winnetonka High School 452-0465
N BELLAIRE AV INTERSECTS
5918 Coleman Robt J ◎ 454-0370
N WHITE BEGINS
6000 Williams Herbert R ◎ 452-5991
6018 Barnes Margt M Mrs ◎ 452-6802
6120 Northland Christian Church 436-6551
6201★Key Charles R ◎ 455-0118
N FREMONT AV INTERSECTS
6526★Douglas Robt J
FREMONT AV INTERSECTS
N BENNINGTON AV INTERSECTS
6600 West C J Mrs ◎ 453-4439
6608 Pugh Dennis ◎
6612 Colgate Edmund ◎ 452-1456

TP	Adjoining	Source
-	✓	R. L. Polk Co., Publishers

PALMER DR 1980

PALMER AV—Contd
11214 Alvarado Ben ◎ 763-1726
11215 Caswell Charles G
11216 Grogman Gary ◎ 761-8280
11217 Bailey James R ◎
11218 Lass James E 763-9390
11219 Iser Richd A ◎ 966-1952
11220★Penland Jerry 966-1167
11221 Olive Roy L ◎ 763-6859
11223 Antista James J ◎ 765-4727
11225 Service Patricia Mrs ◎ 761-2485
E 114TH ST INTERSECTS
11400 Thompson Raymond L Rev ◎ 761-5310
11401 Merry Erving ◎ 761-7752
11402 No Return
11403 Rogers Mary Mrs
11404 Howard David K ◎ 761-3327
11405 Clement Fred ◎
11406 Frederick D J 761-7976
11407 Herbert David E 761-1084
11408 Singleton Gordon A ◎ 761-3339
11409 Boerger Leonard N ◎ 765-6981
11410 Barnett Geo 761-0893
11411★Dodson Karen 763-3294
11412 Steele Jerry L
11413 Hammons Charles E 763-9478
11414 Snow Donald R ◎ 765-0741
11415 Curliss Edw L ◎ 761-6139
11416 Miller Frances Mrs ◎ 763-4204
11417★Boles Geo D 763-2253
11418 Burton James ◎ 765-4799
11419 No Return
11420 Olewine Alberta Mrs ◎ 761-5695
11421★Young Jacalyn 966-1012
11422 Sheldon Marion 763-0568
11423 Kenney Charles L ◎ 761-0568
11424 Bishop Norma Mrs ◎ 761-2112
11425 Stapleton James P ◎ 761-0157
11426 Alumbaugh Carl G ◎ 761-8569
11427 Brown Bill G ◎ 763-0684
11428 Slaughter A Dean ◎ 761-0696
11429 Workman Hobart F ◎ 761-4628
11430 No Return

608
ZIP CODE 64134
11500 Dahmer Phillip M ◎ 761-6033
11501 Winn James R ◎ 765-6347
11502 Graves Earl ◎
11503 Douglas Robt ◎
11504 Allen John D ◎ 761-8980
11505 Clark Paul ◎
11506 Tutt Lorenzo G ◎ 763-6927
11507 Ross Anderson ◎
11508 Mc Dowell Harold ◎ 966-9763
11509 Perkins Harold ◎ 761-8936
11510 Washington Arth ◎
11511 Hinton Wm K ◎ 765-5290
11513 Collins Michl R ◎
11514★Gaston Albert
11515 Juedeman Ronald L ◎ 763-1617
11519 Hambrick Haywood L ◎ 765-5059
11520 Ward Robt E ◎ 763-3317
11521★Mc Kinnie Robt L ◎ 966-9372
11600 Hall Lloyd Jr ◎ 761-0313
11601 Euwet Wm J ◎ 761-1994
11604 Johnson Albert E ◎ 763-5456
11605 Jones Chester L ◎
11607 Winfield Eug ◎
11608 Edmonds Albert V ◎ 763-8664
11609 Williams Bobby G ◎ 966-8445
11611 Hamlett Robt R 763-1834
11612 Jefferson Larry ◎ 765-7989
11615 Fuqua Nolla ◎ 765-7829
11616 Nicholson Worley H ◎ 765-0884
11618 Jones Paris ◎ 761-1747
11619 White Richd ◎
11620 Henderson Ray T ◎
11622 Blackmon Prentice ◎ 763-6986
11624 Ireland Gary L ◎ 763-4494
11625 Kennedy Thos J ◎ 966-9045
E 117TH PL INTERSECTS

328
PALMER AV N —FROM 51ST STREET TER N NORTH AND NORTHEAST

ZIP CODE 64119
5112 Hinkle Francis E ◎ 455-0481
5116 Ballenger James C ◎
5120 Rountree Marshall
5123 Goulding Rex ◎
5124 Cowden Leslie A ◎ 453-1572
5128 Bailey Larry E ◎
5129★Reusch Harold Ray ◎ 454-0398
5132 Osborn Lester L ◎ 453-7576
5133 Purtle Ora ◎ 454-3730
5136 Olvera Joe M ◎ 453-5693
5137 Mc Claskey Phillip J ◎ 454-9806
5140 Violett Vernon W ◎ 452-9037
5141 Cramer Martin ◎ 455-3651
5144 Bagby Walter L ◎ 452-3362
5145 Cockrum Roger ◎ 454-2140
5148★Peacher Tom ◎
5149 Donovan Wayne C ◎ 453-7006
5152 Sayles Richd C ◎
5153 Belt Thos J ◎ 452-8020
5200 Bless Lawrence E ◎ 454-5529
5201 Stewart Harold D ◎ 452-2643
5204 Chennault Joe ◎ 455-0028
5205 Ford Robt E ◎ 453-4050
5208 Steffen Richd O ◎
5209 Ford Donald J ◎ 453-6298
5212 Schweikhardt Geo E ◎
5213 Vacant
5216 Mistler Rodger G ◎ 454-7465
5217 Baker Theron C ◎
5220 Schumacher Arth J ◎ 453-5388
5221 Looney Janet ◎ 454-5416
5224 Walters Wm E ◎ 453-2878
5225 Pace Glen R ◎ 453-7901
5228 Philipps Malvin A Jr ◎ 453-2119
5229 Green Connie L Mrs ◎
5232 Chisam Wm K Jr ◎
5233 Rodgers Wm W ◎ 454-8681
5236 Chaszar Joseph B ◎ 454-4636
5237 Schlosser Raymond C ◎ 453-4249
5240 Vacant
5300★Snyder Lord ◎ 454-2367
53D ST INTERSECTS (NOT OPEN)
5301 Elkins Wm ◎
5306 Moore Anna L Mrs ◎ 453-1172
5309 House Floyd A ◎ 454-0543
5310★Clark Murray A 453-3817
5314 Van Gordon Frank ◎
5315 Raccuglia Dominic S ◎
5318 Romine Patrick J ◎ 452-9044
5321 Franklin Allen
5322 Gilpin Logan C ◎
53D ST TER INTERSECTS
5328 Leone Joe L ◎ 452-5289
5329★Meinhardt Joseph J 454-9111
5335 Reynolds James M ◎ 454-4615
5336 Hall Richd D ◎
5339★Quarles Phillip 454-1276
5342★Elam Steph ◎ 454-6127
5347 Custer James T ◎ 454-5798
5348 Lee C Douglas Jr ◎ 454-9544
5353 Renfro John A ◎
5354 Kingsolver Morris V ◎ 452-9424
5358 Jones Paul K ◎ 453-0074
5359 Vacant
5364 Spraggs David L 453-4140
5365 Licata Sam P ◎ 452-8699
5368★Gandy De Wayne 453-1901
5369 Kennedy Donna O ◎ 453-6978
5374 Mc Mullen Bill ◎ 452-4474
5375 Majors James R Jr ◎ 452-9278
5379 Walz Nicholas F ◎ 452-5180
5380 Jones Frank M ◎
5383 Crain Jerry W ◎ 453-7863
5384 Seifers Wayne ◎ 454-4083
5388 Palmisano Anthony J ◎ 454-3751
5390 Witte Conrad G ◎ 454-2573
GRACEMORE INTERSECTS

242
PALMER DR —FROM 4731 OZARK RD SOUTH

ZIP CODE 64129
4733 Cleary Robt J ◎ 921-7939
4800 Taylor Adam 924-7505
Teel Ollie B Mrs 923-0151
4809 Mc Guire M 923-5782
48TH TER INTERSECTS
5100 Zink Stan ◎ 861-8372
5101★Demoss Francis ◎
5106 Dumas Henry E ◎ 923-3617
5109 Vacant
5110 Jensen Laverne ◎ 923-9522
5114 Henderson Morris W ◎ 921-0319
5117 Brown Steve J ◎
5118 Reid Ronald E ◎
5122★White Milton J 924-5755
5125 No Return
5126 White Gary ◎ 923-8382
5130 Hough Rolland J ◎ 924-3311
5131 Miller Wilma E ◎ 861-4754
5134 Glassinger Leo A Jr ◎ 921-3055
5135 Kissee John A ◎ 921-9670
5138 Conard Darline H ◎ 924-4660
5139★Cook Thos ◎ 923-1627
5142 Galbraith Jimmie L ◎ 924-4610
5143 Eaton David L ◎ 923-3397
5147 Schowengerdt C E ◎ 923-3861
5148 Murray Donald E ◎ 924-6424
5151 Le Vota Anthony C ◎ 923-4347
5154 Huff Leonard ◎ 861-7762
5155 Vacant
5157 Harbert James E ◎ 921-9500
5159 Sullivan Ralph F ◎
5160 Downs James D ◎ 921-8332
5161 Wissinger Wanda Mrs ◎ 924-0031
5163 Eve Lovena ◎ 921-3349
5164 Neeley Leonard L ◎ 923-8716
5165 Reid Carrol D ◎ 921-1712
5168 Jones Doyal ◎
5169 No Return
5172 Pierce Forest L ◎
5173 Shelton Leo E ◎ 921-4832
5177 Sanders B G ◎ 923-3786
★Sanders Kelly 861-9482
5200 Stephens Kenneth J ◎ 923-7465
5201 Brown C H Jr ◎
5205 Rich Chester ◎ 921-4679
5206 Mc Kinney Robt H ◎ 923-0015
5209 Farmer Clarence T ◎
5210 Burton Jerry J ◎ 923-4009

326
5612 Pearson Wesley B ◎ 861-6380
5613★Whitenberg Robt
5618 Vacant
5619 Pearson Joseph W ◎
5624 Pearson Elvin B ◎ 923-4496
5625 Jackson Jimmie W ◎
E 57TH ST INTERSECTS

238
PALMER ST —FROM 7800 US HWY 40 SOUTH

ZIP CODE 64129
E 33D INTERSECTS
3305 Bunker Hill Trailer Park
★Buckworth
3307 Vacant
3309 Stangle
3311 Thompson
3313★Fournier Ellie
E 33D STREET TER INTERSECTS
3315★Noblin Charles
3317 Miller
3319 Goth Ehrle F ◎
3328 Vacant
3330 Thomas Georgia
3332 Cowden
3334 Lockhart
3336 Gallup Jim ◎ 861-7628
3338 Rice Ramona Mrs ◎ 924-8065
3340 Cleveland C M ◎ 921-6442
3342 Lockhart Billy B ◎
3344 Gorman John A ◎ 921-8672
E 34TH ENDS
3432 Murray James A 924-8808
3433 Haney Virginia J 924-3180
3434 Vacant
3435 Vacant
3436 Noblin
3437 Freeman David H ◎
3438 Vacant
3440 Chitwood Les A 923-8132
3442★Grimm Martin ◎ 861-0557
3501 Vacant
3502 Vacant
3503 Vacant
3504 Pruitt
3505★Danska Clara ◎
3506 Munter Andrew T 861-1470
3509★Davis
3510 Caldwell Christina 921-8642
3511 Hogan
3514 Moerchell

238
PALMER STREET TER —FROM 1 BLK EAST OF E 35TH EAST

ZIP CODE 64129
E 33D INTERSECTS
3306 Bunker Hill Trailer Park
Harris
3308 Lewis Wm
3310 Spalding
3312★Johnson James
3314 Britt Kevin 861-4370
3316 Vacant
3318 Miller Hazel
3320 Callan Richd B ◎
3330 No Return
3417 Vacant
3419★Nevarez F J 923-5822
3421 Vacant
3423 Vacant
3426 Gill
3427 Powell
3428 Kain
3429 Vacant
3430 Vacant
3431 Shinner
3432 Clarkson Robt
3433 Vacant
3434 Vacant
3435★Glenn W D ◎ 921-8709
3436 Gleason
3437 La Rue
3438 Smith
3439 Ebeck John R
3441 Vacant
3443 Vacant
E 35TH INTERSECTS
3500 Vacant
3501 Vacant
3507 Caswell Dell ◎ 923-7762
3508 Vacant
3509 Murray Jimmy C ◎ 861-8110
3510 Vacant
3511 Crane Harvey M 861-5103
3513 Vacant

220
PALOMA ST —FROM OPPOSITE 3038 DRURY AV EAST

ZIP CODE 64128
5500★Heilman Gary ◎ 923-9573
550 Ebert Jerry ◎ 924-3678
5505 Wilper Kenneth 924-1512
5506 Woods Ray
5508★Saddler Leslie ◎ 921-5196
5510 Vacant
5515 Bond Fred L ◎ 921-5508
5522 Pate Sybil M ◎ 921-8019
OAKLEY AV INTERSECTS
5600 Broadway Ruth ◎ 924-8822
5601 Mitchell Floyd ◎
5605 Symon M 923-4346
5606 Vacant
5608 Kipper Raymond A ◎ 923-8470
5609 Alford Walter ◎ 921-0834
5611 Riggs Wm W 861-5020
5612 Studyvin Thos R ◎ 861-2548
5615 Badger Maurice ◎
5619 Wiley Blanche M Mrs ◎ 924-7540
5621 Woodward R C Construction Co 924-8280
Woodward Robt C Jr ◎ 924-8280
5624 Wilper Harold E ◎ 921-4133
5625 Riggs Emmett W ◎ 923-0953
5627★Vansell Larry W ◎ 921-2915
5633★Floyd Pearl W
5636 Galvin Jimmie
5640 Nichols Helen R
5641 Cunningham Donald D ◎ 924-6334
5714 Bisbee Don D ◎ 924-3912
TOPPING AV INTERSECTS

120
PARADE THE —FROM PASEO TO WOODLAND AV FROM TRUMAN RD TO E 18TH ST

ZIP CODE 64106

503
PARIS ST —FROM INTERNATIONAL WAY NORTH & SOUTH

ZIP CODE 64195
125 City Aviation Dept Operations Div 243-5249
City Aviation Dept Mtce Div 243-5250
J J Security Crash & Rescue Div 243-5255
156 U S Postal Serv Air Mail Facility 243-5750
MEXICO CITY AV INTERSECTS
BRASILIA AV INTERSECTS
ATHENS AV INTERSECTS
INTERNATIONAL WAY INTERSECTS
241 Gilbert Joe Restaurants Inc 243-5700
426 K C I Texaco Service Center 243-5880
MADRID AV INTERSECTS
LONDON AV INTERSECTS
PARIS ST ENDS

152
PARK AV —FROM 2300 ST JOHN AV SOUTH

ZIP CODE 64124
101 No Return
107 Nelson Carl E ◎ 241-3588
109 Hon Chris L ◎ 241-3573
110 Balestreri Angelo ◎ 421-5654
111 Hackett Robt D ◎
113★Beanchino Tony ◎ 241-0291
114★Larwence Bob 474-0694
1st Fl★Tisdale Scott 483-1985
115★Fox Mike
117 Vacant
Vacant
119★Treece Jerry ◎ 231-3787
120 Leggio Angelo L ◎ 474-9168
121 Pinkston Anna E ◎
122 Ribando Lucy Mrs ◎ 474-9238
124 Vacant
126 Hawkins Omar
135 Shepherd Wanda Mrs ◎ 483-0629
PENDLETON AV INTERSECTS
203 Vacant
205 Sorisso Thos 231-8325
Hernandez A 231-8465
207 Luttrell Victoria P ◎ 231-8136
208 Imperiale Anna Mrs ◎
Imperiale Vincent 421-7867
Imperiale Virginia 471-0182
209 Giglio Salvatore ◎ 483-0736
212 Russo Isadore ◎ 471-2663
213 Welch Lena D ◎ 231-3681
217 Balestreri Anthony L ◎ 241-2266
221 Giamalva Louis J ◎ 483-8214
Giamalua Frank A 241-6081
225 Battle Clarence ◎ 241-3284
Meade L U 241-0737
229★Battaglia James 231-2172
LEXINGTON AV BEGINS
MINNIE INTERSECTS
313 D'Angelo Joe ◎ 231-7078
314 Spitaleri Ida Mrs ◎ 241-5108
316 De Angelo Leona
319 Sansone Francesco ◎ 483-3481
321 Esquivel Richd
323 Armato Sam ◎ 483-3751
324 Scarcello Anthony G ◎ 483-0565
324a Perniciaro Joseph 241-0800
325 Mistretta Rose Mrs ◎ 241-8160
328 Battaglia Nancy ◎ 231-4868
329 Chaisson Betty Studio art studio 453-3323
330 Dupay Ed Jr ◎ 241-2348
334★Madien Neil B 483-1990
336 Di Meo Louis ◎ 231-4330
338 Tarantino Saml S ◎ 483-0490
340★Speer Norman C ◎
ELMA ST INTERSECTS
401★Giarmtua Frank 231-7580
403 Agrusa Nick ◎ 231-5230
408 Tusa Pietro ◎ 421-0992
410 Boul Bernard H ◎ 474-8328
413 Liley Geo D ◎
414 Guarino Josephine Mrs ◎ 842-6364
416★Armato A J ◎ 842-0857
421 Vacant
425★Sola Geo ◎ 231-4927
500 Macias Michl J ◎ 221-3249
503 Cedeno Guadalupe ◎
504 Conway Greg ◎ 421-5274

TP	Adjoining	Source
-	✓	R. L. Polk Co., Publishers

RICHMOND AVE 1980

JAMES A REED RD—Contd
7840 Mc Comas Lewis E ◎ 356-8303
7844 Zimmer Robt F ◎ 353-5942
7857 Galbraith Leslie L ◎ 358-5653
7859 Vacant
7861★Tosspon Carl 358-5939
7863 No Return
7867 Collier James W Rev ◎ 737-2693
E 79TH ST INTERSECTS
7909 Angerman Patricia ◎ 356-0471
E 79TH ST TER INTERSECTS
7911 Vacant
7916 Shockey Emanuel R ◎ 353-0091
7919 Comstock Thos G ◎ 358-0672
7923★Pinkerton Leon D ◎ 353-3310
7927★Gippner Wayne ◎ 353-4859
E 80TH ST TER INTERSECTS
8007 Helling Eug J ◎ 353-2221
8017 Spencer Steven R ◎ 358-6295
8025 Durham Archie ◎ 356-1102
8030 Aldrich Cliford Jr ◎ 353-9340
8040 Barnett F E 353-8040
8044 Duffy Michl R ◎ 356-4616
8045 Gann Herbert H ◎ 353-7307
E 81ST ST INTERSECTS
8101 Smardo Fred L ◎ 356-0344
8111 Bird Bill D ◎ 353-7265
8115 Atkins James R ◎
8119★Miller Charles R ◎ 358-3753
8126 Mullins James L Jr ◎ 353-3720
8132 Vacant
8137 Hartley Allen ◎ 358-5966
8139 Reich Harold P ◎ 353-2298
8144 Mehl Clemens H Rev 353-8161
E 82D ST INTERSECTS BLUE RIDGE EXTN
8221 Smith Grace M Mrs ◎ 358-2518
8223★Ralph Irene Mrs ◎ 353-3203
83D ST INTERSECTS

428

E 87TH INTERSECTS
E 89TH INTERSECTS
E 89TH ST TER INTERSECTS
E 90TH INTERSECTS
8800 Sutter John G ◎
8802 Gonnerman V Ann 765-2941
8804 Fry Betty N Mrs ◎ 761-7889
8806 Ward Glaves E ◎ 763-2232
8808 Guiter Josephine M ◎ 763-6625
8810 Hammons Sally A Mrs ◎ 765-2037
8812 Thompson E Eug ◎ 765-6359
8814 Ferber David V ◎ 765-0307
8818 Blair B L Mrs ◎ 763-4504
8918 Gonzales Mary
8820 O'Hern Thelma P Mrs ◎ 765-1334
8822 Darnell B J ◎ 966-9928
E 89TH ST INTERSECTS
8904 Kiefer Clarence A Jr ◎ 763-4122
E 89TH ST TER INTERSECTS
8918 Gonzales Raymond ◎
8941 Saint Regis Catholic Church 761-1608
Saint Regis Grade School 763-5837
8945 Sisters Of Charity B V M 763-6565
E 90TH ST INTERSECTS
9001 Christian Brothers 761-2979
O'Hara High School 763-4800
9004 Swezey Walter L ◎
SYCAMORE AV INTERSECTS
9014 Baker John R ◎ 763-5553
E 90TH ST TER INTERSECTS
9025 Smith Robt T J ◎ 761-4294
9026 Patterson Neal T ◎ 765-6623
9027 Schofield Oscar I ◎
9028 Perry Jon ◎
9029 Cronley Wm P ◎ 761-8503
9030 Kurtz Geo H ◎ 763-3632
9031 Mohr Glenn ◎ 765-2654
9033★Peterson Keith P ◎ 761-8410
E 91ST INTERSECTS
9101 Alexander Esther Mrs ◎ 761-5358
9103 Grissom Harry ◎ 761-4219
9105★Moulder C 761-7737
9107★Mc Burney Robt Lee 765-4891
E 91ST TER INTERSECTS
9109 Digirolamo Joanne Mrs ◎ 761-3777
9111 Burton Calvin J ◎ 761-1710
9113 Wilkins Roger ◎ 761-8740
9115 Smith James R ◎ 966-9041
E 91ST ST TER INTERSECTS
E 92D INTERSECTS
9201 Mc Elroy La Rue Mrs ◎ 763-2373
9203 Bomar Wm A ◎ 761-4947
9205 Griggs James E ◎ 765-0078
9207 Garvin Ralph V ◎ 761-7116
9209 Muller Marvin P ◎ 765-7737
9211 Anastas Paul ◎ 765-0072
9213 Sims Robt ◎ 761-5294
E 92D ST TER INTERSECTS
E 93D INTERSECTS
9303 Hackett Robt L ◎ 763-5070
9305 Flippin Lloyd E ◎ 765-5895
93D ST TER INTERSECTS
9309 Cassil Marie ◎ 765-2586
9420 Saint Luke's United Methodist Church 763-8444
E BANNISTER RD INTERSECTS

252

ZIP CODE 64134
E 96TH ST INTERSECTS
9600 Truman Harry S School 761-2073
9701 Dixon Harry W ◎
9711 Armbrust Lawrence
9723 Savala John II 765-4615
9801 Iiams Wm C ◎ 763-2949
9803 Price C M ◎ 761-5773
9805★Bottone John
9807 Barnett Billy L ◎ 966-8153
9809 Mc Crackin Glen F ◎ 763-1641
9811 Hubbard Fred
9815 Stawarz Mara 763-9808
9824★Merrill Gary L ◎ 765-3458
9826 Crouch Robt M ◎
E 99TH ST INTERSECTS

303

REIGER RD NW —FROM NW 68TH NORTH WEST

ZIP CODE 64118
W 72D NORTH INTERSECTS
BAUGHMAN RD BEGINS

515

REINKING RD NE

ZIP CODE 64156
Carlton Evert B ◎ 781-0142
Vacant
Smith Gerald 781-2075
10306 Vacant
10312 Schulz Larry G ◎ 781-6004
10450 Under Constn
10452 Under Constn

516

108 Till Wm 781-3508

520

REVERE DR N —FROM NW 82D ST TER EAST

ZIP CODE 64151
8250 Brown Geo ◎
8251 Madick Edw J ◎ 587-2299
8252★Cozad Roy ◎
8253 Harmon Robt ◎
8254 Howell Thos M ◎ 587-0065
8255 Tate William ◎
8256 Ritchie Stanley D ◎ 741-7793
8257 Pohl C M ◎ 741-4226
8258 Suman Martha ◎
8259 Colbert Garrett W ◎ 741-0974
8260 Slofkosky Ken ◎ 587-0681
8261 Klein Wm J III ◎ 587-0827
8262 Hamlett Wm A ◎ 587-0775
8263 Maeder Raymond W ◎ 741-8209
8264 Jones Russell ◎ 741-5352
8265 Strope S R ◎ 587-9099
8266 Corbett Robt W ◎ 741-7984
8267 Vacant
8268 Phalp Gloria ◎
8269 Roberson Bruce D ◎ 587-1714
8270 Huke Mark W ◎ 587-0868
8271 Kolega Michl D ◎ 587-0992
8272 Pesicka Glynn E ◎ 741-2775
8273 Browne Richd ◎ 587-0117
8274 Ingalls Billy E ◎ 741-8723
8275 Barclay Edw 587-9750
8276 Hauser R E ◎ 741-0988
8277 Gallardo Victor ◎ 587-0849
8279 Otiker John ◎ 741-5138
8281 Williams Randy 587-0358

446

RHINEHART RD —FROM LEE'S SUMMIT RD WEST AND SOUTH

ZIP CODE 64139
LITTLE BLUE RD INTERSECTS
8141 Stone Steph D ◎ 373-5173
TURNER RD INTERSECTS
8200★Kelso Phillip L ◎ 373-2762
8300 No Return
8621 Buehre Jerry F ◎
8629 Edwards W Ross ◎ 524-6822
E 87TH ST INTERSECTS
8803 Vacant

500

RHODE AV NW —FROM NW 74TH TER NORTH

ZIP CODE 64152

105

RICHARDS RD —FROM 1 BLK SOUTH OF W HARLEM RD (HARLEM) NORTHEAST 1 WEST OF BC&QRR

ZIP CODE 64116
10 Pro-Recondition 471-0660
Hennessey Mike (Pro-recond Ctr) 471-0660
70 Vacant
100 Vacant
234 Vacant
250 Missouri Exhibitions Inc mdse mart exhibition center 842-5939
Kansas City Trade Mart mdse mart exhibition center 842-5939
Hanger Lounge tavern 421-5587
Nixon James T mfrs rep 471-3064
Runway Restaurant & Lounge 421-5587
Vacant
K C Trade Mart Exhibition Hall
400 F A A Airport Traffic Control Tower 221-4487
City Aviation Dept 471-4946
420 Vacant
454 Omni Air Inc 421-6733
455 Vacant
464 Vacant
472 Vacant
474 Vacant
480 Jay Truck Driver Training Center 471-4141
500 Air Midwest 471-2206
Aviation Consultants 578-4325
Hyde Aircraft
Downtown Air Center 474-5964
M K C Air Transport 221-4291
Viking Am Ltd 221-4291
Airport Aviation 842-8888
600 Kings Avionics 474-4606
Greb Xray Aviation 888-8400
836 Baker's College Of Aviation flight & ground sch 221-8111
838 Aero Mechanics School 221-8111

216

RICHMOND AV —FROM 7519 E 12TH SOUTH

ZIP CODE 64126
E 13TH ENDS (NOT OPEN)
TRUMAN RD INTERSECTS
E 16TH INTERSECTS
E 16TH STREET TER INTERSECTS (NOT OPEN)
E 17TH INTERSECTS
E 18TH INTERSECTS

242

ZIP CODE 64129
4726 Riddle James E Jr ◎ 921-2262
4730 Smith Gregory K ◎ 923-3538
4734 No Return
4738 Coberley Wilbur J ◎ 924-2205
4800 Miller Maxine M Mrs ◎ 924-7686
4804 Rendon Phillip D ◎ 924-6067
4808★Murrell Jesse Jr ◎
4812 No Return
4816 Elkins Paul L ◎ 921-5572
4824 Ellington Ralph R ◎ 924-4486

244

ZIP CODE 64133
6315 Burkholder Ed L ◎ 353-3829
6319 Hollingsworth Turf Farm 356-5416
Hollingsworth Frank E ◎ 737-1372
6320 Spruill Carol Mrs ◎ 353-5828
6323 Arthur Harvey J ◎ 737-0426
6324 Vacant
E 64TH ST INTERSECTS
6404 Seale B ◎ 356-1941
6407 Nave Richd J ◎ 358-7413
6420★French Paul ◎
6424 Good Fred ◎ 356-0272
6432 Nelson Lawrence C Jr ◎ 356-3027
E 65TH INTERSECTS
6500 Kasiah Edwin L ◎ 353-2301
6501 Hayes Marie R ◎ 356-4349
6503 Cesar Daisy ◎
6505 Yates Harold E ◎
6507 Stillhorn Raymond ◎ 356-1218
6513 Yates James T ◎ 353-7179
6524 Vacant
6601 Ames Lester ◎ 356-5821
6603★Ames Christopher
6605 Hicks Larry R ◎ 353-5091
6609 Reid Lawrence ◎ 353-3696
6615 Wilkinson Thelma ◎ 356-9458

246

E 67TH ST INTERSECTS
6706 Watson Jeff 353-0125
6707 Harter Harry T ◎ 358-8113
6708 Sinclair Michl A ◎ 358-2757
6709 Anderson Cath A Mrs ◎ 356-5257
6710 De Maria Teresa W Mrs ◎
6711 Queen Donald R ◎ 353-1471
6714 Holland P J ◎ 737-0980
6716 Jones Robt D ◎ 358-6477
6720 Kroger Richd D ◎ 358-0887
6723 Hamer Louis ◎ 358-0469
6725★Hines Chris 356-3353
E 68TH ST INTERSECTS
6800 Weber Herman ◎ 356-8518
6801 Vacant
6802★Smith Susan ◎
6804 Dunlap David M ◎ 737-1056
E 69TH ST INTERSECTS
6900 Cerutti Wm L ◎ 358-0161
6901 Knotts Lawrence ◎
6902 Ferney Herbert C Jr ◎ 353-0261
6903 Stevens Robt J ◎ 353-3273
E GREGORY BLVD INTERSECTS
E 70TH TER INTERSECTS
7020 Life Tabernacle First United Pentecostal Church 737-2670

247

7144 Jones Robt L 356-4183
7200 Robinson Vernon L ◎
7204 Davis Lyle C ◎ 737-0262
7205 Spangler F Earl ◎ 353-2374
7208 King Paul G rental property mgr ◎ 353-6836
7209 Robertson K Kenneth ◎ 353-7233
7211 Burton Herbert ◎
7212 Conrad Charles M ◎ 353-8942
7215 Ralls Willard F ◎ 358-9722
7216 Smith Mylin C ◎ 353-5247
7220 Jordan Geo A ◎ 358-8289
7221 Gibson James M ◎ 353-3208
E 73D ST INTERSECTS
7310 Williams Geo ◎ 737-1788
7314 Gant Agnes L 358-8112
7318 Kelly Roosevelt ◎ 358-0290
7326 Williams Denise D ◎
7331 Cason Frederick ◎ 358-7815
7334 Shumate Robert Jr ◎ 358-7132
7400 No Return
7415★Fiddmont Norman S Rev 356-1996
ZIP CODE 64138
7520 Dugger Edw A ◎
7528 Cappo Anthony J ◎
7532 Brown Robt G ◎ 356-5435

418

FAIRWOOD DR INTERSECTS
9313 Bratcher Jeannine Mrs ◎ 761-2441
9314 Martin Gloria Mrs ◎ 763-6047
9315 Hiebl Rudy F ◎ 763-6494
9316 Arthers Oletha J
9317 Scardino M F ◎ 761-0814
9318 No Return
9319 Winders Dallas C ◎ 761-0746
9320 Cunningham Ogle L ◎ 763-5924
9321 Seller Donald E ◎ 761-3354
9322 Fouts Thos ◎ 763-2059
9323 Bussard Felix E ◎ 763-7858
9400 Sullivan Thos ◎ 761-0603
9401 Solovic Larry B ◎ 765-3264
9402 Vacant
9403 Lamert Joseph W ◎ 761-0621
9404 Cousin Sammie ◎ 765-2631
9405 Brown Emma J Mrs ◎ 966-1942
9406★Hoss Brant A ◎ 966-1630
9407 Lecuyer A James ◎ 765-5761
9408 Blackman Maurice L 763-5084
9409★Hill Dennis L ◎ 966-8398
9410 Bopp Fredk A ◎ 763-5125
9411 Nash Richd ◎
9412 Walter Richd J ◎ 761-6146
9413 Northington Billy ◎
9414★Jansen James R
9415 Moffett C Richd ◎ 763-0528
9416 Garcia Loretta S Mrs ◎ 763-6893
9417 Whitley Fred K ◎
E BANNISTER RD INTERSECTS

420

ZIP CODE 64134
KEMPER RD INTERSECTS
9600 Vacant
9605★Roberts L ◎ 765-2502
9607 Fields Stanley M ◎
9608 Clark Robt M ◎ 763-2793
9609 Arnone Joseph J ◎ 761-5539
9612 No Return
9615 Moore W Fredk ◎ 761-3545
9617 Joseph F Delon ◎ 966-0461
9700 Randol Richd L ◎ 761-8453
9701 Walden Lewis ◎ 763-1004
9704 Davidson Wayne E ◎ 765-1378
9705 Moore James B ◎ 761-2163
9708 Foster John M ◎ 761-4987
9710 Creech Harvey R Jr ◎ 761-1397
9712 Noonan Paul A ◎ 761-1771
9713 Hampton Justin R ◎ 761-2162
9714 Luton Ray A ◎ 763-2776
9715 Marcotte Allan V ◎ 763-1492
9717 Cook Richd M ◎ 763-3299
9801 Smith James L ◎ 761-0588
9804 Kirby Wm W ◎ 765-0372
9807 Moore Claude ◎ 761-4477
9808 Frank Tom L ◎ 761-3363
9809 No Return
9812 Weiskopf Lawrence R ◎ 763-7582
9815 Roush Charles E ◎ 765-1810
9816 Benneson John R ◎ 761-6232
9819 Walker Grace E Mrs ◎ 763-5655
9823 Todd Allen G ◎ 763-5759
9900 Edwards Charles E ◎ 763-4620
9904 Rusher Otis L ◎
9924★Bay Terence F ◎ 763-9924
9930★Radford Dennis K ◎ 763-1973
9936 Almai Manuchihr ◎ 765-2106
9940★Mayfield
10000 Anderson Aubrey L ◎ 763-5794
10003 Carney Howard ◎ 763-6518
10006 Thompson Kenneth L ◎ 763-2309
10012 Bowen Robt L ◎ 763-2876

422

E 103D ST TER INTERSECTS
10300 Lane Mike ◎ 763-4692
10301★Jones Wallace ◎ 763-5540
10303 Luvin Ellis C ◎ 763-8629
10304 Gordon Floyd C ◎
10308 Sharanz Jim
10309★Runnels V M 763-0838
10311 Clymens Harold D ◎ 763-0234
10312 Rakoski Junetta ◎
10316 Goth Maxine E ◎ 761-6779
10317 Kudra Kenneth R ◎ 966-9228
10320 Arnold Steve 763-7669
10323 Green Rick 765-4483
10324 Dickerson Donald W ◎ 763-3192
10401 Faughn Johnny L ◎ 763-4527
10404 Fox Brian
10405 Dudley Boyd ◎ 761-0648
10408 Libeer Earl L ◎
10409 Caffey Herbert E ◎ 761-0854

TP	Adjoining	Source
✓	✓	R. L. Polk Co.

OZARK RD 1975

E OUTER BELT RD—Contd
9301 Olson Allan M ◎ 331-2859
9307 Beard Paul W ◎ 331-4509
9311 Beard John W ◎ 331-2954
9315 Bandy E W ◎ 331-3106
9331 Cornell Albert F ◎ 331-2334
9333 Humphrey Harold L ◎ 331-5996
9401 Davis Roy L ◎ 331-7660
9600 Goetze Jack D ◎ 763-2025
9700 Parker Theo J 761-4928
9815 Van Voorst Geo R ◎
11401 Clark Meredith M ◎
12101 Kensilea Kennels 331-4562
Sibert Kenneth V ◎ 331-4562
12201 Howard Robt W ◎ 331-0056
12301 Lane Kenneth A ◎ 331-2312
12302 Ruckdaschel Marion W ◎
12401 Johnson J Kelly ◎ 331-3730
12507 Shaw Cathryn ◎ 331-0213
12600 No Return
12701 Dusselier Henry ◎ 331-5438
12710 Ostrander Hugh R ◎ 331-5468
12716★Bradbury J
12801 Vacant
12900 Vacant
13000 Street Wesley W ◎ 331-2550
13001 Marks James E ◎ 331-5720
13004 Avery Everett H ◎ 331-2012
13008★Prier Leon ◎ 331-6968
13016 Johnson B G 331-7124
13400 Kiefer Sam D ◎ 331-0475

248
OVERHILL DR —FROM 8300 E 83D SOUTH

ZIP CODE 64138
8316 Austin Vivan P ◎
8320 Yeager Donald F ◎
8325 George John Q Jr ◎ 356-8325
8331 Melson Mark M ◎ 353-1060
8335 Smith Dwayne C ◎ 353-3736
8364 Faulkner Leonard R ◎ 356-1886
8365 Schmidt Frances W ◎ 358-7357
8376 Shonfelt Donald B ◎ 358-1994
8388★Clark Frank G ◎ 358-6178
8400 Harlan Gordan H 358-9759
OLDHAM RD INTERSECTS

420
OVERHILL RD —FROM 7600 BANNISTER RD SOUTH AND EAST

ZIP CODE 64134
9506 Como Mickey ◎ 763-4926
9508 Como Vito J ◎ 763-4873
9509★Owsley Charles E
9511 Yardrick John G Jr 765-2681
9515 Milligan Evelyn 763-2637
9517 Carol Virginia
9526★Lottes R Lee 765-4634
9528 Chambers Charles ◎ 765-5741
9530 Swope James D ◎ 765-1388
9531 Kruger Kenneth C ◎ 765-6911
9532 Middleton Frances Mrs ◎ 761-0707
9533 Dawson Wilfred S ◎ 763-2734
9600 Dusselier Charles J ◎ 763-1223
9601★Miller Charles
9603★Bledsoe Henry D 765-4043
9610 Long Helen 763-4304
9611 Shaklee James ◎ 761-1690
9614★Miles Robt M ◎ 763-8866
9615 Tehrani T ◎
9618 Barnes Terry L ◎ 765-4360
9619 Leiby Cecil ◎ 763-0022
9622 Gardner James E ◎ 765-1630
9623 Calvin Robt R ◎ 765-2092
9626 Helton Danny O 761-1593
9630 De Bitetto Geo L ◎ 763-0033
9633 Elmore Rodney D ◎ 765-2684
9634 Goos Gerald D ◎ 761-0385
9637 Prouty Patricia A ◎ 761-0904
9638★Acton James T ◎ 763-7856
9701 Jantsch Harry A ◎ 763-1361
9705 Snow Robt B ◎ 761-5921
9711 Thornburg Robt C ◎
9713 Hansen Diana 763-4734
9717 Under Constn
9724 Dailey Parker S Rev ◎ 763-2649
9727★Kemner P A 763-9388
9728 Livingston Douglas E ◎ 761-0872
9736 Sanders Bob G ◎ 763-8462
9802 Smith Lawrence A ◎ 763-7922
9803 Witt Lawrence B ◎ 763-0969
9808 Nichols Joe L ◎ 966-1297
9812 Fidlar Wm Donald ◎ 761-1828
9815 Shelman Thos ◎ 761-9682
9821★Lonergan James M 966-8169
9826 Under Constn
9837 Under Constn
9838 Under Constn

497
OVERLAND DR N —FROM NW 56TH NORTH 1 WEST OF N NORTHWOOD RD

ZIP CODE 64151

499
6407 Southwestern Bell Tel Co field office 741-9940
NW 66TH ST INTERSECTS
6500 O'Hearn James W ◎ 741-1860
6504 Guinn Michl S ◎
6508 Edwards Gerald P ◎ 741-4761
6512 Vacant
NW PARK PLAZA RD INTERSECTS
6604 Kirkland Jerry A ◎ 741-5607
6608 Welch Donald R ◎ 741-7173
6612 Vacant
6700 Gulberg Lee ◎ 741-2941
6704 Bradhurst Ronald N ◎ 741-6205
6708 Woods Ronald O ◎ 741-6002
6712 Goddijn Robt ◎ 741-1152
6716 Salisbury Robt B ◎ 741-0234
6720 Steadman Thos W Jr ◎ 741-0415
6800 Hudson Dale H ◎ 741-8065
6801 Deister Don F ◎ 741-2368
6804 Hughey P F ◎ 741-4966
6805 Eddings Joe D ◎ 741-4283
6808 Hollingsworth Wm K ◎ 741-7766
6812 Tosti Angelo S ◎ 741-5789
6816 Hulfeld Raymond W ◎ 741-7397
6820 Jahr Richard ◎ 741-3524
6824 Benne Clarence M ◎ 741-4831
6828 Vacant
6832 Maxwell Wm D ◎ 741-5598
6836 Larson Richd H ◎ 741-7004
6900 Logan Ronald J ◎ 741-0470
6904 Mercer Leslie I ◎ 741-4296
6908 Arnold Jack ◎
6909 Vacant
6912 Hauetter Robt W ◎ 741-5508
NW LINDEN RD INTERSECTS
6913 Sutton Jack N ◎ 741-1125
6916 Smith Donovan N ◎ 741-6854
6919 Nuckols Joseph H ◎ 741-3034
6920 Lloyd Donald L ◎ 741-2817
NW 70TH ST INTERSECTS
7007 Kerr Carl L Rev ◎ 741-5515
7011 Vogt Leonard E ◎ 741-3032
7022 Wingo Lottie E Mrs ◎ 741-2282

520
OVERLAND DR NW —FROM NW 83D ST TER NORTH

ZIP CODE 64151
8000 Hagler G W ◎
8001 Fox Thos J Jr ◎
8010★Carpenter Larry ◎
8011 Riggins Raymond L ◎ 741-8358
8021 Christensen Ken ◎ 741-4651
8100 Robinson Galbie ◎ 741-1236
8101 Gehrlein Edw J ◎ 741-6467
8108 Benson Robt ◎ 741-4861
8116 Burgess John M ◎ 741-8943
8124 Porter John N ◎ 741-2306
8130★Wendelschafer Brian ◎ 741-6944
8136 No Return
8213★Riordan Robt H ◎ 587-8028
8215 Holte Nordahl E ◎ 741-1824
8216 Bono J Robt ◎ 741-7689
8217★Pearce Wm F 741-8381
8218★Denning Ron 587-8815
8220 Fairfield Gary M ◎
8221 Coves Clubhouse 741-9824
8317 Young Joseph F ◎ 741-2936
8323★Shields J Roger ◎ 741-4845
8329 Porter John K ◎ 741-3290
8332 Vacant
8334★Jones M D
8335 North Hardy P ◎ 741-6008
8336 Watson Grace
8338★Burris Art ◎ 741-6547
8340 Vacant
8341 Griggs Lawerence ◎ 741-4631
8342 Vacant
8362 Jackson V M ◎ 741-9559
8364 Sebastian James ◎ 741-3874
8366 Saunders Julia J 741-8371

325
OVERTON AV —FROM 9700 E 47TH SOUTH

ZIP CODE 64133
4700 Barker Norma L ◎ 358-2992
4701 Seaman Roy A ◎ 358-3507
4709 Miller Harold ◎
4710 Mc Kinney Clyde L ◎ 353-9201
4715 Vogt Tressie Mrs ◎ 353-6929
4716 Roark Marvin truck driver ◎ 353-4192
4719 Galbraith Geo R ◎ 358-2994
4722 Vonderahe Eug J ◎ 356-7603
4723 Kremers Henry G ◎ 356-9291
4726 Horan John B ◎ 353-8223
4729 Coulter Shirley A Mrs ◎ 353-4386
4732 Trefz Robert L Jr ◎
4733 Gross Robt D ◎ 353-8645
4736 Piper Donald L ◎ 353-6998
4737 Hill Clyde ◎
E 48TH ST INTERSECTS
4800 Earley Henry G ◎
4801 Harris Amos ◎ 356-9683
4808 Plumberg Wm ◎
4811 Ellis Golden M ◎ 356-4140
4814★Allen John ◎ 356-4620
4817 Gauldin Charles R ◎ 353-3397
4820 Wilson Jack L ◎ 358-1423
4821 Snow Doyle O ◎ 353-2490
4824 Smith Donald L ◎ 358-4426
4827 Vacant
4830 Browning John R ◎
4833 Burch Vinson L ◎ 356-6499
4834 White Freddie K 353-8824
4837 Ray F C ◎ 358-1164
4840 Briscano Phillip ◎ 358-5445
4843 Howell Martha
4844 Meyers John R ◎
4900★Oster Rose Mrs ◎ 353-6465
4901 Gum Charles R ◎ 356-4181
4906 Apgar Randy K 356-7889
4907 Gross Larry C ◎ 358-9049
4913 Toczek Frank J ◎ 356-2676
4914 Rogers Earl W ◎ 356-0318
4918 Gaffney Carmal Mrs ◎ 356-7772
4919 Foley Herbert J ◎ 356-3116
4923 Brouse Charles ◎ 358-0286
4928 Honeywell Fred J ◎
4929 Noone Wm V ◎ 358-5466
4933 Miller Richd E ◎
4937 Haynes James R ◎ 358-7854
4941★Tommilson Jessie Mrs ◎ 737-0383
HAWTHORNE INTERSECTS
5020 Garza Israel V ◎ 353-2547
5021 Rustan Galen D ◎ 358-9306
5024 Canfield Henry J ◎ 358-2664
5025 Rieschick Donald D ◎ 353-7768
5028 Hefner Loyd W ◎
5031 Rosanbalm Wm L ◎ 356-0788
5032 Baker Robt W ◎
5035 Musgrave Jackson L ◎ 358-3916
5036 Dennis Ronald D ◎ 358-0177
5040★Stone Charles ◎
51ST TER INTERSECTS
5100 Casey D D ◎ 353-4779
5104 Graham Charles O ◎ 353-3479
5107 De Moss Robt L ◎ 358-0655
5108 Highbarger Howard E ◎
5111 Howard Charles P ◎ 356-5111
5112 Bowman Jimmie E ◎ 358-0421
5115 Taylor Paul H ◎ 353-6036
5116 Adams Dwight C ◎
5120 Denti Raymond ◎ 358-4479
OVERTON CIRCLE INTERSECTS
5220 Price Donald R ◎ 356-5220
5226 Kessler John F ◎ 358-0677
5232 Thomson Harold E ◎ 358-4312
5238 Reynolds David M ◎ 358-1921
5242 Linton Francis C ◎ 356-2883
5248 Laws Wallace H ◎ 358-0209
5252 Hart Wm D ◎ 356-4195
5253 Hill John ◎

325
OVERTON CIR —FROM 5200 OVERTON RD NE THEN IN A CIRCLE BACK TO 5200 OVERTON RD

ZIP CODE 64133
5119 Wagner John D ◎ 356-1455
5123 Mason Geo ◎ 358-0129
5201 Bowers Kenneth C ◎ 353-6207
5207 Davis Leland E ◎ 353-9151
5213 Barker David A ◎ 358-0120

608
OVERTON ST

ZIP CODE 64149
12519 Mura Alphons ◎ 763-8964
12522 No Return

616
OVERTON ST N —FROM N LINDENMAN TER NORTH

ZIP CODE 64161
3840 Urness Andrew A ◎

227
OWEN AV —FROM 1000 N PROSPECT AV EAST

ZIP CODE 64120
2800 Talley Alonzo E 231-1588
N CHESTNUT AV INTERSECTS
N KANSAS AV INTERSECTS
N AGNES AV INTERSECTS
N BELLEFONTAINE AV INTERSECTS (NOT OPEN BET N BELLEFONTAINE AV)

238
OXFORD AV —FROM 36TH ST TER SOUTH

ZIP CODE 64133
3601 Vacant
3608 Minks Jerry C ◎ 353-4678

430
ZIP CODE 64134
10300 Coker Thos C ◎ 763-4166
10311 Boswell Burl
10316 Hutchison Leroy ◎ 765-1981
10320 Ohrmund Frank A 763-6073
10324 Hornaday Richard ◎ 761-9531
10325 Payne Wm ◎ 761-1859
E 104TH INTERSECTS

616
OXFORD ST N —FROM NE 40TH ST NORTH AND SOUTH

ZIP CODE 64161
NE 40TH ST INTERSECTS
Topside Farms
4033 King Pansy Mrs ◎ 452-3800
N E 41ST ST INTERSECTS
4118 Thomas Larry ◎ 453-3367

327
OZARK RD —FROM SNI-A-BAR RD EAST

ZIP CODE 64129
7330 Thoms Donald E ◎ 861-0255

242
7400 Eastwood Hills Community Assn Hall 924-9546
7417 Tippie Willis F ◎ 923-3041
7456 Eastwood Swimming Club Inc 924-9868
7501★Klemp Ronald ◎ 861-8287
7505 Vacant
7509 Fischer Edw Jr ◎ 861-7026
7511 Ballinger James F 921-7679
7517★Neidinger Steph ◎ 921-1580
7600 Mo Natl Guard 436th Signal Co 923-1102
Mo Natl Guard Hq 110th Engineer Combat Btln 923-1114
Mo Natl Guard 205 Military Police Btln 923-1164
Mo Natl Guard 205 Medics Btln 923-1430
Mo Natl Guard 135 U S Medical Hospital 923-1430
7605 Gulledge Robt W ◎ 923-7831
7611 Robinson James E ◎ 923-5491
7621★Nolan Patti 924-4731
7627 Pennington B L ◎ 924-2004
7633 Michaels Larry D ◎ 921-6345
7707 Talbott Mark E ◎ 861-3188
7711 Owings Wm R ◎ 924-5404
7715 Nation Gary R ◎
7719 Herrington James W ◎ 923-5979
7801 Brand Donald W ◎ 923-6853
7805 Riley Robt A ◎ 861-8409
7815 Holloway John G ◎ 921-5755
7819 Sanders Clarence E ◎ 923-0782
7901 Crane David E ◎ 924-3779
7905 Dierking Robt W ◎ 923-6852
7909 Wasson Dale L ◎ 923-2051
7915 Lading Donald E ◎ 923-8770
7919 Vacant
8100 Municipal Correctional Institution 861-1212
City Penal Institution 861-1212
City Women's Reformatory

115
OZARK ST (NORTH KANSAS CITY) FROM RAILROAD AV NORTH AND NORTHWEST

ZIP CODE 64116
E 12TH AV INTERSECTS
1203 Kansas City Diesel Power Co distrs 471-3526
1221 Merico Inc refrigerated dough products 421-2662
1222 Tempmaster Corp htg & air condtg equip 421-0723
1225 Welco Mfg Co Inc paint mfr 471-1788
1230 Dunlop Tire Co (Ship & Rec Docks)
16TH AV INTERSECTS (NOT OPEN)
17TH AV ENDS (NOT OPEN)
18TH AV INTERSECTS (NOT OPEN)
19TH AV INTERSECTS (NOT OPEN)
20TH AV INTERSECTS (NOT OPEN)
ARMOUR RD INTERSECTS

229
21ST AV INTERSECTS
22D AV INTERSECTS
23D AV INTERSECTS
24TH AV INTERSECTS
25TH AV INTERSECTS (NOT OPEN)
26TH AV INTERSECTS (NOT OPEN)
27TH AV INTERSECTS (NOT OPEN)
2200 No Return

112
PACIFIC ST —FROM 539 CHARLOTTE EAST

ZIP CODE 64106
COTTAGE LA INTERSECTS
CAMPBELL INTERSECTS
910 Venetian Hall-Holy Rosary Church
911 Roccaforte Cath Mrs
Donnisey Gerard
914★Mc Intire James O Rev 471-8584
Vacant
HARRISON INTERSECTS
1000 Vacant
1001★Distefano Fanna P 842-9594
1001½ Vacant
1002 Vacant
1003 Apartments
1st Fl★Harding M R 474-9516
2d Fl Dyer Harold L 221-5147
1004 Vacant
1009 Argento Louise Mrs 221-6797
Pike Donald 421-4689
Valenti Kate Mrs ◎ 842-3449
1015 Smith Wm 221-2764
Testa Marion J ◎
Bsmt Vacant
1030 Rodriquez Julio 421-7661
GILLIS BEGINS

116

TEL. 421-8027 | 1725 TROOST AV. | Tel. 761-3030 | 9625 Grandview Rd.

TP	Adjoining	Source
-	✓	R. L. Polk Co.

47TH ST TER E 1975

W 47TH ST—Contd
916 Vacant
919 Price Thos Interiors architectural design 931-7922
920 Owens James L phys 753-2223
Tutera Gino phys 753-2223
BELLEVIEW AV INTERSECTS
1013 Stockwell Ralph E ◎ 931-2684
JARBOE ST INTERSECTS
1101 Vacant
1105 Lamb Wayne
1106 Swinney E F School 931-5558
1107 Roach Arno L Mrs 561-8421
1109 Shellito Florence ◎ 531-0364
1115 Eso-S-Pictures Inc whse
1121 E S O S-Pictures Inc home movie equip 531-1481
HOLLY ST INTERSECTS
1201 La Pirie Beauty Salon 753-9424
1207 Joseph's Salon beauty shop WE1-7062
1207½ Vacant
1209 Vacant
1211 Goodrich Rene S ◎ 753-2514
1214 Midwestern Engineered Equipment Co 531-1077
1215 Vacant
1216 Playhouse Beauty Salon 753-4737
1217 Puett Uel E ◎ 531-8092
MERCIER ST INTERSECTS
1303 Hoagland Bernice R Mrs ◎ 931-6307
1307★Anderson Michl F 753-5129
TERRACE ST INTERSECTS
1410 La Secret Skin Care Salon skin treatments 531-7174
1412 C G S Photography 561-4443
1414 Vacant
1419 Insta-Graphics Inc 531-1622
1421 Truog Real Estate 561-0360
LIBERTY ST INTERSECTS
1500 Apartments
1 Courtney J L 931-5878
2 Walmer Nadine 753-3003
3 Driver D
4 Rooney Frank W 931-3645
1501 Little House The childrens clo 753-6048
1502 Apartments
5 Rayburn Jack K 631-4149
6 Liggatt E J 753-3404
1507 Act Two discount boutique clo 531-7572
FAIRMOUNT AV INTERSECTS
WYOMING ST INTERSECTS
GENESEE ST ENDS
BELL ST INTERSECTS
STATE LINE INTERSECTS

68

47TH ST TER E —FROM OPP 4722 OAK EAST

ZIP CODE 64110
600 Buckingham Ruth G Mrs ◎ 931-8699
604 Swafford Michael C
608 Booser Stephen J 931-6439
612 Waller Dale ◎ 931-1736
625★Smith Terry
ROCKHILL RD INTERSECTS
HOLMES ST INTERSECTS
(NOT OPEN BET HOLMES AND FLORA AV)

94

FLORA AV INTERSECTS
1601 Brown Treva J Mrs ◎ 861-9331
1605 Brown Herbert
1633 Vacant
1716 Peterson Ruth Mrs
1720 Vacant
1722 Williams Louise Mrs ◎ 921-8754
1723 Crowley Charlena Mrs ◎
1724 Vacant
1728 Vacant
1729 Menter Barbara Mrs ◎ 923-2899
1730 Vacant
1734★Pless Wm 921-0236
1735 Johnson Lloyd E ◎
1736 Vacant
1737 Vacant
1741 Vacant

132

WOODLAND AV INTERSECTS
ZIP CODE 64130
1800 Faulkner James E Vacant
1801 Vacant
1802 Pautz Harvey W ◎ 924-5429
1803 Shoemaker Lloyd M ◎ 924-0890
1804 Jones Ethel ◎ 921-8257
1810 Smith Michl L
1811 Farris Arth M ◎ 924-0206
1812 Hickle Austin M ◎ 924-8831
1816 Kelley Millard E ◎ 921-3108
1819 Ward Frank W ◎ 923-2375
1820 Neidert Josephine B Mrs ◎ 921-9661
1821 Rangel Luis R ◎ 861-5424
1823 Coleman Easter Mrs ◎ 921-5733
1824 Phillips Alberta Mrs ◎ 861-3130
Chism Geraldine L Mrs ◎
1827 Jackson Landis H ◎
1828 Parker Curtis
1832 Krug Max ◎ 924-5379
1833 Simpson James ◎ 923-5214
1834 Ethridge Billy C ◎ 924-6920
1836 Hughes Jessie L Mrs ◎ 923-7629
1841 Rothenberg Sidney L ◎ 923-8329
Schwartz Bernice Mrs ◎ 923-8329
1844 Fogt Emma Mrs ◎ 921-5392
EUCLID AV INTERSECTS
2005 Vacant
2009 Johnson Don ◎ 924-1840
2015 Vacant

136

BENTON BLVD INTERSECTS
3702 Benton Manor Apartments 923-4795
100 Pickens Weldon
101 Sivelo Larry 921-7597
102 Turner Lillie Mae 861-7693
103 Hoskins Wallace
200★Jordon Barbara A
201 Lane Edw P
202★Williams Michl T
203★Wagner Beverly J 924-1151
3703 Apartments
100★Douglas Marcia
101 Hill Nedra 861-4867
102 Atwater Patricia
103 Jackson Roy
200 Harris Dorothy
201 Kelso Mary H
202 Billings Ronnie
203 Smalls Robt
Bsmt Holland E Cecil 861-8353
3704 Apartments
100★Fairly Ann
101 Vacant
102★Carderon Geo J
103★Thomas Billie J
200 Walton Johnnie D
201 Holiday Gladys
202★Counce Debra
203 Miller May
3706 Apartments
100★Baker Fred
101 No Return
102★Stanfield Terry
103 Dailey Geo
200★Cobbs Gregory
201 Richardson Terry
202 Mc Cormick Woody D
203 Smith Cattie
3707 Apartments
100★Chaplin Dwight A
101 Brown Euretha 861-0320
102 Shannon Joyce 924-1810
103★Woods Shirley
200★Triplett Gladys 924-5126
201 Davis Brenda
202★Neville Clyde A
203 Sargean Phyllis 923-0471
3708 Apartments
100★Robertson Gerard
101★Banks Denise C
102 Rogers Geo
103★Henry Kenneth B
200★Mathis Walter
201★Smith Ivory
202★Giles Margt
203 Vacant
3710 Apartments
100★Lee Sharon K
101★Parker Wanda
102 Vacant
103★Jones Tom
200★Nunn Pearlie 924-3267
201 Williams Michl J 921-7046
202★Kiyle Anna B
203★Lee Ruthie A
3711 Apartments
100★Mc Gough Glenna
101 Jackson John
102★Williams Leo
103 Sanders Flossie
200 Williams Margt 921-4476
201★Davis Earlene
202 Gordon Angie 923-0123
203★Reed Landry
3712 Apartments
100★Walls Lilly
101 Green Marion
102★Randle Edw
103★Thomas Harold
200 Hodges Beverly
201★Clark Wayman B
202 Johnson Zetherine 924-8054
203★Lain Linda J
201★Clark Wayman B

185

3800 Curry Horace
3804 Johnson Richd J Jr ◎ 861-1302
3808 Hardley Hershell ◎ 923-4298
3812 Ellison Callie Mrs ◎ 861-3599
3900★Jordan Thos L 921-2292
3904 Littlejohn Alex ◎ 924-4566
3908 Brown Fred D ◎ 861-5674
3912 Wesson Sammy ◎ 861-2322
Charleston S Jr
3916 Oates C Herman ◎ 942-4281
3920 Rainey Henry L ◎
3924 Dandridge Armour Jr ◎
3928 Norman John H ◎ 861-2348
3931 Estis Lee S ◎ 923-6672
3932 Thompson Rosalie C Mrs ◎ 923-4355
3935 No Return
3936 Minner James ◎ 924-6921
PARK RD INTERSECTS

327

ZIP CODE 64129
6700 Lauderdale Wilber A ◎ 861-5702
6950★Bowlby K W ◎
6954 Madsen Harry F ◎
6960 Masters Edw ◎
6964 Tarwater James C ◎
6970 Britz Ralph ◎ 924-1171

242

RICHMOND INTERSECTS
7600 Meier Ruby Mrs ◎ 921-2824
7601 Mc Kinney Allis Mrs ◎
7605 Warden Lloyd E ◎ 921-3453
7608 Jacobs Richd C ◎ 861-5941
7611★Granger Donald R ◎ 924-1334
7614 Mc Mahon Wm C ◎ 921-7286
7617 Slaton Gordon ◎ 924-1535
7618★Mance Michl D ◎ 924-4256
7623 Smith Louis E ◎ 924-5722
7624★Caldwell James ◎ 924-8580
PALMER INTERSECTS
7700 Guthrie Theo L ◎ 923-8837
7701 Dela Cruz Salvadore ◎ 923-9593
7705 Vacant
7706 Volkmer Gary L 861-0061
7709 Schoom Elaine 924-2787
7710 Morris Jerry L ◎
7714 Vacant
7715 White Michl E ◎ 923-2747
7718 Warman Robt D ◎ 923-7224
7719 Sears Kenneth R ◎ 924-3651
7800 Hess Roy E ◎ 861-5822
7801★Spengler James 924-7871
7804 Vospette Andre L ◎ 861-7919
7805 Smith Clarence ◎ 861-3152
7809 Sofia Jack D ◎ 923-8077
7812 Elrod John C ◎ 921-9477
7815 O'Dell John L ◎ 861-5811
7816 Sullivan Robt L ◎ 921-4618
7819 Nicholas Marion B ◎ 924-7043
7900 Vacant
7901 Howell Lee L ◎ 861-0820
7904 Storm Wesley ◎ 924-0191
7905 Thompson Truman ◎ 921-2040
7908 Grady Jerry L ◎ 923-7676
7909 Johnson Tom L ◎ 861-8445
7912 Edwards Joe W ◎ 861-6710
7915 Miller Thos 861-8484
7916 Clawson Theo E ◎ 861-2248
7919 House Frank
SYCAMORE INTERSECTS
8300★Giffin Clint 924-0555
8301 Pearson Ralph S ◎ 924-3244
8304 Vacant
8305 Brown David L ◎ 923-2362
8308 Vacant
8400 Leveridge M A 921-7735
8401 Evans Charles P ◎ 921-9674
8404 No Return
8405 Hendricks Henry M ◎ 921-2493
8408 Buckner Roy V ◎ 861-7136
8409 Leslie Ronald ◎
WALLACE AV INTERSECTS
8500 Brown Richd M ◎ 923-7557
8501 Bennett Charles E ◎ 861-5407
8502 Jackson Elzo ◎ 921-8373
8505 Mc Henry Stanley ◎
8507 Moritz Carl F ◎ 921-2879
8508 Sims John L ◎ 861-5659
8511 Clemens Raymond L ◎ 924-9115
8512 Jones Alan 924-7013
8515 White Volney B ◎ 921-7942
8516 Cunningham Frank E ◎ 924-4737

241

ZIP CODE 64133
STERLING AV INTERSECTS
11200 Meredith Norin ◎ 353-9361
11204 Cox Tracy E ◎ 353-1393
11207 Mc Mahon Michl G ◎ 353-5048
11208 Lemberger John O ◎ 353-1209
11211 Renner F Irene Mrs ◎ 358-1315
11212 Bellman Naomi Mrs ◎ 356-5335
11215 Kerby John E Jr ◎ 356-0409
11216 Malchow Alfred A ◎ 353-8810
11220★Stevenson Warren ◎ 358-1281
11224 Hartman H Geo ◎ 353-4434
11223 Harper Robt A ◎ 353-4421
11227 Wait Herbert R ◎
CLAREMONT AV INTERSECTS
BLUE RIDGE BLVD INTERSECTS
12003 Pileggi Antonio ◎ 353-0573
12005 Colbert Hazel M Mrs ◎ 353-0598
12007 Price Clifford C ◎ 353-3224

362

47TH ST TER NE

ZIP CODE 64116
1000 Ford Howard L ◎ 454-1152
1101 Young Men's Christian Assn Clay-Platte Br 453-6600

375

ZIP CODE 64117
2600 Base Larry L ◎ 454-0297
2603 Atkins Bertha H Mrs ◎ 452-6551
2606 Estep Phillip J ◎ 452-5879
2607 Lowe Victor E Jr ◎ 453-1880
2610★Harra Keith W ◎ 554-7624
2615 Vacant
2616 Durlacher David F ◎ 452-3393
2619 Crane Bill J ◎
2622 Clark James O ◎ 452-6556
2700 Orr James C ◎ 454-4045
2704 Duffy Joseph L ◎ 452-8031
2722 Whiteaker E Harold ◎ 453-4395
2727 Farris Earl L ◎ 452-9125
2804 Auld Edw A ◎
2807 Ware Charles ◎ 454-0810
2810 Fantin Delia Mrs ◎ 452-5215
2814 Posson Charles E ◎ 453-3889
2820 Rice Kay E 453-5560
2824 Shurback Dorothy S Mrs ◎ 452-6063
2828 Rogers Albert L ◎ 452-0777
2832 Stewart Alfred J ◎ 454-7742
3201 Cannova Saml J ◎ 452-3201
3206 Latona Victor W ◎ 452-1320
3207 Ruckh Charles W ◎ 453-2645
3212 Shour Herbert H ◎ 452-5622
3213 No Return
3218 Cannova Carl ◎ 454-3142
3219 Nordine Geo ◎ 452-0460
3224 De Ghelder James J ◎ 453-4122
3225 Carriker Glenn A ◎ 454-1700
3231 Withrow C Ray ◎ 453-0748
3237 Gray Robt J ◎ 452-7175

374

CHOUTEAU TRFWAY INTERSECTS
NE CHOUTEAU DR INTERSECTS
3500 Azzarelli Joseph ◎ 452-4928
3501 Tinsley Raymond E ◎ 453-7933
3504 Schraeder F Virginia Mrs ◎ 453-5554
3505 Stasi Cath H Mrs ◎ 452-7756
3506 Wasser Otha M Mrs ◎ 454-1374
3507 Lycan Ernest E ◎
3510★Jenkins David O 453-7998
3511 Vogelbaugh Kenneth E ◎ 452-6523
3512 Salucci Anthony C ◎
3513 Smith Clifford G ◎ 452-7919
3516 Slater Markalee V Mrs ◎
3517 Rigg John R ◎ 455-0784
3518 Kaul Kenneth E ◎ 452-5831
3520 Blair Jack P ◎ 453-5802
3521 Nester Arth E Mrs ◎ 453-3411
3525 Clough Everett V ◎ 452-8485
N SHERWOOD DR INTERSECTS
3600 Ray Joseph V ◎ 459-0971
3601 Duston Glen ◎ 452-9205
3609 Evans Earl V ◎ 453-4518
3610 Regan Thos J ◎ 452-5138
3616★Brown Richd A ◎
3619 Shull James W ◎ 453-5278
3622 Erbacher Philip J ◎ 452-9389
3625★La Rocca Frank 454-6798
3628 Lo Porto Frank ◎ 452-2186
3631 Vaughan Ray A ◎ 453-0469
3634 Nugent Patk H ◎ 453-1634
3637 Russo Mary ◎ 453-5349
3640 Jackson Richd D ◎ 452-0141
3700 Sigler William E ◎ 452-8234
3701 Stephens Joe ◎ 454-3748
3707 Shaw Robt E ◎ 453-3896
3708 Russo Vito S ◎ 453-6746
3713 Pernice Rudolph J ◎ 453-5840
3714 Rhodes Gerald L ◎ 454-6615
3719 Whitt Donald R ◎ 454-3457
3720 Carroll Jay G ◎ 452-6003
N CLEVELAND AV INTERSECTS

333

N ELMWOOD AV INTERSECTS
4600 Field Max L ◎ 452-4507
4603 Bode Lindley W Jr ◎ 453-1238
4607 Whitfill Wm R ◎ 452-9375
4610 Neil Dwayne L ◎ 452-8048
4612 Diggs Glenn L ◎ 454-4963
4613 Jones Earl E ◎ 452-0348
4617 Herr John R ◎
4620 Drake Kenneth M ◎ 453-0829

TP	Adjoining	Source
-	✓	R. L. Polk Co.

48TH ST E 1975

NE 47TH ST TER—Contd
4621★Girard Augustine ◎ 455-1229
4700 Jones Keith 454-8428
4703 Brown Larry H ◎
4707 Hart Norman D 453-4513
4708 Waugh Walter L ◎
4711 Kimball Danl L ◎ 452-4680
4712★Mc Carty Geo S ◎ 452-5870
4716 Wiggins Alline Mrs ◎
4717 Mansell A Louella ◎ 452-0871
4721 Loos Lynn E ◎ 452-2762
LISTER AV INTERSECTS
4800 Frost Velma E ◎
4801 Wyatt Roy Jr ◎
4805 Thompson Jenny 454-1704
4810 Johnson Larry E ◎ 452-4341
4811 Moeller John R 453-7366
4814 Henry John F ◎ 452-2745
4815 Scott Dale ◎ 453-3153
4818 Simpson Keith H ◎ 454-0759
4819 Pulse H W 453-7408
4822 Gensheer Thos ◎ 453-0073
4826 Gray H Steph L ◎ 454-4274
4830 Yochim Jerry E ◎ 452-5338

380
NE BRIGHTON INTERSECTS
5102 Vacant
5103★Mc Coy Wm O ◎ 452-0440
5109 Vacant
5120 Rizer Nelson
5121 King Earl L ◎ 453-3216
5200 Vanskike Harry A ◎
5220 Vacant

68
48TH ST E —FROM 4800 GRAND AV EAST

ZIP CODE 64112
212★Sherman Terry L 931-5757
Feren Patty 561-5934
214 Smokorowski Pete E ◎ 531-8497
216 Selders Eug Jr 531-7694
218 Vacant
220★Hoffman Helen 531-8649
MC GEE ST INTERSECTS
301 Mazur Meat Market 753-8443
301½★Milford Susan 931-1566
302 Mirror Plaza Apartments
★Franklin J M 561-2919
303★Dawson S
304 Vacant
305★Erhart Leland 931-0254
306 Hand Wm E 931-7107
★Krueger Lavern E 561-8821
308 Vacant
309★Coslet Michl D 753-2582
310★Morris Danl N 931-9749
311★Midkiff Sandra C 931-0530
312★Bennett Ralph L 931-2659
Fabery Paulette 753-6848
315 East Lake Apartments 363-5509
101 Butel Hank M 753-2818
102★Casey Barry
103★Miller Craig 753-0214
104 Cheney Harold D 753-0613
201★Pencek Adrienne 561-2372
202★Wheeler John
203★Midkiff Leslie 531-3841
204★Adelman Regina 561-5906
301★Kemerling Donald
302★Gillaspie Steve
303★Crain Dan
304★Schwalb N 931-6928
316 Apartments
1 Vacant
2★Sweeney Dave 561-3669
3 Savino Robt L 531-0798
4 Massman Zetta T Mrs 561-4384
5★Troxel P S 561-0148
6★Tenenbaum J 931-2276
317 East Lake Apartments
318 East Lake Apartments
1★George Jim
2★Smith Kevin M 531-3825
3★Gers Allan 531-2840
4★Fogarty Thos A 753-8472
5★Merfen Douglas
6 Schuyler Robt L 561-5470
319 East Lake Apartments
Bsmt Howard R B
101★Wise Dorothy 931-0141
103★Lange Linda 561-8016
104★Davis N
201 Couch Doug F 931-6798
202 Kelso Gary L 931-2524
203 Broyles Jean M
204★Crawley Honey
303 Van Buskirk Lange 561-1633
304 Bartlett James 531-2776
321 East Lake Apartments
102 Holderby Geo L
201 Vacant (Apts 201-301)
302 Mc Cartan D
ZIP CODE 64110
OAK ST INTERSECTS
LOCUST ST INTERSECTS
ROCKHILL RD INTERSECTS
HOLMES ST INTERSECTS
701 Vacant
★Cobb Rex 561-4427
Loy M
703 Vacant
704 Gardner Harry D ◎ 561-4386
705★Nassim B 561-1651
Chang Jung Ching 531-6063
707★Mc Daniel C L 561-3270
★Taylor S
Hardy Anne
708★Shank Thayne ◎ 531-6110
712 Halelo Z Jerry 561-3679
715 Rhoades Dennis ◎
716 Austin Walter S ◎ 561-5068
720 Patterson Nellie A Mrs ◎
721 Cole Pearl 931-7174
CHARLOTTE ST INTERSECTS
800★Costello Dennis 531-0569
Greenstein Jerry
802 Scheurich Edw
★Vincent Candy 756-0858
805 Byrne John E ◎ 931-0274
ZIP CODE 64119
808★Yerke Steph 531-5477
809 Bauer Lynn W Jr 931-1489
811 Jennings Robt R 561-5081
812 Dotson Hoover Jr 753-5427
Irwin Sarah 931-2208
Burnham David L 561-6741
Bsmt★Kircher P K
815 Hartford Arms Apartments
Bsmt★Hodgins Mearl
1★Lloyd L Davis
2★Calfas John T Jr 561-1685
3★Arbuthnot Phillip 753-4351
4 Balding Stella M Mrs 561-8114
5★Penske Wm J 753-8106
6★Harris Laura
20 Kotsifakis Nancy 561-8157
21 Hancock Glenn 531-0771
22 Smith Norma J
23 Marshel R L
24★Staten A 561-2217
25 Caprefoli Paul J 561-5457
26★Graham R W
27 Thompson Sandra 561-7368
30★Grawford V
31 Vacant
32 Callison Charles S 931-6625
33 Vacant
34★Buckwalter Mark 561-2807
35 Vacant
36 Vacant
37★Collins Burt 753-8215
STREET CONTINUED
816 Maisch Emma D ◎ 561-2065
Desken Laurence J 561-6299
★Burkhardt M
819 Hartford Apartments
1 Vacant
2★Rucker Debbie 753-1548
3★Barlow Sandra
4★Potts Susan E
5★Campbell S 561-8387
6★Turner Cheryl
7★Heard Jesse
8 Forbush Mike
9★Strahl David E 561-8774
10★Stidham Valentine
11 Vacant
12★Chiarfalia Nicholas
14★Ward Mike
15★Porterfield Beverly
16 Chin Wm L 561-6509
17★Gullette Harry D
18★Jones Oceda M
19★Moberly Joseph
20 Vacant
21★Enlow Archie W 753-4084
22★Clements Ronald C 931-3595
23 Brown Merl
24 Vacant
25★Ayodele Peter
26 Terserand J
27 Vacant
28 Mullikin Bobby J 561-7028
29★Stack John A 531-7039
30 Vacant
31 Beashore Dennis
CAMPBELL ST INTERSECTS
820 Stephens Thos M
901 Pulley Bros Inc whol florists 931-1312
907 Baker Walter G
909★Barnes Doug 561-2881
909½ Hunter Dorothy M Mrs 931-9860
911★Palmer B
Bsmt★Eaton J
912 Midstate Wholesale 931-3211
★Teefey Jack J 931-4626
913 Guy J 561-2986
914 Burt-Fritts & Associates Inc prntrs 756-1240
915★O'Hare P 561-9245
916 Middleton Apartments
101 Vacant
102 Vacant
103★Atkinson D
104★Hammond J
201★Locascio Anthony 561-4789
202 Vacant
203 Vacant
204★Hunter N L
205 Arras Gene H 561-5282
STREET CONTINUED
917 R M F Steel Co junk 753-6917
Harrison Evelyn Mrs ◎ 753-6917
918 Proctor John C
920 Stephens Design (Thos M Stephens)
922 Centre Art Recherche 531-4165
922½ Ellmaker Charles F Jr 531-9692
HARRISON ST INTERSECTS
1000 Security Safe Service Inc 561-8000
1002 Williams Dick Jewelry 561-3223
1004 Kayes Rockhill Bar 753-9130
1006 Vacant
1008 Leon's G & R Body Shop 531-8078
1015 Philharmonic Trolley recital hall 531-7143
1016 Cebis Corp mfrs agts 561-4010
Seek-A-Leak Inc leak detector mfrs 561-0350
1018 C & S Drilling Corp 561-0622
1020 Apartments
1 Cebis Corp (Whse)
TROOST AV INTERSECTS

94
1110 U M Of Kc physics dept 276-1604
1122 U M At K C Unit Sec Genl Eng Dept 276-1672

132
(NOT OPEN BET FLORA AV AND WOODLAND AV)
WOODLAND AV INTERSECTS
ZIP CODE 64130
1800 Mishler Ernest C ◎ 861-3011
1801 Hack Donald
1803 Farris George H ◎ 921-4508
1804 Vacant
1805 Vacant
1806 Vacant
1807 Graves Darald E 861-0797
1809 Davis Mary 861-0786
1810 Vacant
1811 Wright Willy F 921-8320
1814 Johnson Wm C ◎
1821 Vacant
1824★Thompson Muriel C 924-6381
1826★Gibson Oscar J 924-9248
1827 Vacant
1828 Theus Ed ◎ 923-0475
1830 No Return
1831 Little Walter M ◎ 923-8955
1834 Mc Gee Lewis ◎ 921-5198
1836 Austin Ray D ◎ 861-0599
1844 Precipha John L Rev ◎ 924-6581
1845 Lollis Carl ◎ 861-6396
1847 Rooks Joyce M Mrs ◎ 921-9235
EUCLID AV INTERSECTS
2011 Duchardt Fredk A ind consultant ◎ 921-7022
2016 Fox Dora E Mrs ◎ 861-1624
2020 Vacant
2022★Wheeler Peggy 924-5459
2026 Ford Kenneth R ◎ 861-9237
2029 Vacant
2037 Silva Maria Mrs ◎ 861-5314
2041 West
2045 Hurse Greg 924-5390
2046 Vacant
BROOKLYN AV INTERSECTS
PARK AV INTERSECTS
2331 Vacant

185
SPRUCE AV INTERSECTS
KENSINGTON AV INTERSECTS
CYPRESS AV INTERSECTS
4502 Peeler Larry L ◎
4510 Hobby Albert Jr ◎ 861-1578
4516 Smith Jas L ◎ 921-5934
ELMWOOD AV INTERSECTS
LAWN AV INTERSECTS (NOT OPEN)
LISTER AV INTERSECTS (NOT OPEN)

242
ZIP CODE 64129
7600 North Ward F ◎ 921-6325
7601 No Return
7605 Hughes O Z ◎ 923-8304
7606★Ferguson Michl ◎
7609 Jones Jesse C ◎ 921-0776
7610 Jackson Wm S ◎ 923-6356
7614 Mackey Richd ◎
7615★Meek Ed ◎ 921-0167
7618 Klick Michl ◎ 921-6092
PALMER INTERSECTS
7704★Clines Bob ◎ 923-0120
7705 Turley Joyce ◎ 923-7773
7710 Stratton Willa ◎ 921-4374
7711 Sawabini Geo ◎ 921-9682
7716 Zimmerman Robt C ◎ 924-8839
7717 Givens James H ◎ 923-8133
7800 Mc Clain Mary 924-7353
7801 Seaton Elbert J ◎ 923-2179
7806★Robinson James E
7807 Baylor Dale E ◎ 923-5731
7812 Wilson Robt C ◎ 924-1678
7813 Joyce Martin J ◎ 924-8204
7816 Beaty Larry M ◎ 923-1771
7817 Cretel Roland H ◎ 921-7278
7900★Adams Joanne 924-6719
7901 Sanders Charles R ◎ 921-3236
7906 Rockers John J ◎ 921-4486
7907 Younts Alta M ◎ 924-7946
7911 King Ivan ◎ 861-4608
7912 Gorman David L 923-9761
7915 Wiggins Tom 861-4692
7916 Neves Gerald M ◎ 923-0215
7919 Wiles Jack L ◎ 861-2808
7920 Veidick James F ◎ 921-1265

241
ZIP CODE 64133
STERLING AV INTERSECTS
11201 Lilyhorn Theo R ◎ 358-0440
11205 Farrington Floyd C ◎ 356-0960
11206★Goodman Geo ◎
11209 Schroeger Eulalia A Mrs ◎ 353-8910
11210 Poindexter Gardella Mrs ◎ 353-0248
11214 Neece Maxine E Mrs ◎ 353-0139
11215 Lasater Geo D ◎ 353-0067
11218 Silvius Myron D ◎ 356-4811
11219 Nystrom Harry B ◎ 353-6865
11222 Vacant
11223 Dennis Milton A ◎ 737-0086
11226 Price Albert L ◎ 356-1595
11227 Boyd A Lee ◎ 353-1547
11231 Malewski Charles W ◎ 353-1866
11241 Hogan Oscar H
CLAREMONT AV INTERSECTS
VERMONT AV INTERSECTS
NORWOOD AV INTERSECTS
11701 Carroll C K ◎ 356-5798
11703 Porter Glen W ◎ 358-1830
11706 Walker John P ◎ 353-4970
11707 Pilsl Paul M ◎ 353-4814
11714 Lilly Leonard C ◎ 356-0652
11800 Cosentino Jerome J ◎
11801 Winbigler Glenn P ◎ 353-5540
11804 Mc Pherson Eavin M ◎ 356-2033
11805 Howe Ronald ◎ 358-4070
11808 Bray Earl E ◎ 353-5682
11809 Carmack Walter E ◎ 353-2519
11812 Taylor Davis D ◎ 356-3327
BLUE RIDGE BLVD INTERSECTS
12001 Hill Victor A 353-0330
12002 Buchholtz Howard J ◎ 356-2813
12003 Yocum Richd L ◎ 737-1961
12004 Shelton Douglas E ◎ 356-4859
12005 Moore Thelma I Mrs ◎ 356-1661
12006 Brown H Clyde ◎ 353-0278
12007 Peeler James M ◎ 358-5453
12008 Hammontree Danl C ◎ 356-1378
12009 Creagan Charles A ◎ 353-8523
WOODSIDE AV INTERSECTS

362
48TH ST NE

ZIP CODE 64118
2018 Ballard Wm H ◎
2104 Day Betty G Mrs ◎ 454-0913
2112 Gadd Elmer E ◎ 452-1793
2117 Northgate Junior High School 453-2250
2120 Mc Keehan Ralph A ◎ 452-8504
2128 Cuthbertson David D ◎ 452-8501
2200 Dillingham D Mack ◎ 452-8500
2201 Wolfe Velda B ◎ 452-9622
2214 Short L Clyde ◎ 452-0533
2215 F~~d Reno 452-8451
2216 R/ er Edgar L 452-6727
2217★Rupprecht Diana ◎
2226 Mc Donald Paul W ◎ 454-1085
2323 Hedges Duane ◎ 454-1476
2401★Harris Everett E ◎ 454-9008
2405 Rumpf Fred J ◎ 453-5078
2409★Harsh John 455-1960
2414 Bray Jack E ◎ 452-8566
2420 Baker Edw M ◎ 454-6097
2426 Bullin Joseph H ◎ 452-4520
2432★Holder Jerry ◎ 454-9898
2436 Wortham Lloyd G ◎ 453-4548
2501 Gill Freda Mrs ◎ 452-6070
2509★Hamon Robt M
2515★Shepherd Terry G 454-5390

374
ZIP CODE 64119
NE CHOUTEAU DR INTERSECTS
3405 Miquelon Joseph P ◎ 452-0361
3408 Ricketts Earl R ◎ 452-2255
3409 Miller Jean A ◎ 452-0857
3412 Dennison L D ◎ 452-1947
3413 Berglund Larry ◎ 453-2045
3417 Mitchell Jack N ◎ 453-2864
3421 La Rocca Salvatore J ◎ 453-1281
3426 Cheesebrough Joseph P ◎ 452-6023
3433 Green Billy D ◎ 452-8965
NE SHERWOOD DR INTERSECTS
3501 Wayman Rex L ◎ 453-2825
3508 Sexton Charles E ◎
3509 Manley Warren O ◎ 452-5975
3514 Fuson John R ◎ 454-4033
3515 Sauro Peter F ◎
3522 Sundal Jasper J ◎ 453-2641
3523 Bolewski Ted J ◎ 453-4697
3600 Stine Louis H ◎ 453-4715
3601 Zimmerman John E ◎ 453-2294
3605 Kuhn Warren J 454-8376
3606 Wirth Eug W ◎ 453-1776
3609 Wunsch Robert E ◎ 453-6519
3610 Adams Lucille M Mrs ◎ 453-4482
3618 Miller Edgar J ◎ 453-7578
3619 Edson D ◎
3624 Dunn Allan F ◎ 453-4758
3625 Como Mary Mrs ◎ 453-2625
3700 Berglund J K ◎ 452-0595
3709 Yates J H ◎ 453-5419
3718 Bower Richd C ◎ 453-2049
3719 Snell Mary L ◎ 454-6411
3725★Mutti Albert F 454-3461
3740 Maskill D E Co mfrs agt blrs 453-3603

TP	Adjoining	Source
-	✓	R. L. Polk Co.

PALMER DR 1975

PACIFIC ST—Contd
TROOST AV INTERSECTS
1100 Strada Joseph ◎ 421-7934
1113 Cipolla Josephine Mrs 421-1706
★Panzica C J 221-6275
1116 Gallo Sam Jr 221-2549
1117 Sbisa Angelia Mrs ◎ 842-0598
1118 Spero Nick 221-4457
1119 Lombardo Frank ◎ 471-3193
1120★Denny Joseph C 421-7824
Appleton
1121★Ciocciaro T J 842-9604
1122 Sivigliano Sally R Mrs ◎ 221-7046
1123★Soriano Jimmie 471-2852
Palmentere Virginia Mrs ◎ 471-7253
1124★Nigro Michl A ◎ 221-5748
1126 Vacant
1128★Harris J C ◎
1129 Di Cavolo Salvatore 221-5148
1130 Manade Mary Mrs ◎ 842-2891
1132★Ramsey Ernest 842-3438
1136 Vacant
Rear Vacant
1138 Warren Grace E Mrs 421-5892
Rear Serrone Pete A 842-2638
2dfl Donnici Alfonzo 221-3156
1139 Vacant
LYDIA AV INTERSECTS
FOREST AV INTERSECTS

216

PALMER AV —FROM E 16TH SOUTH

ZIP CODE 64126
E 16TH STREET TER INTERSECTS
E 17TH INTERSECTS

418

ZIP CODE 64138
E 93D ST INTERSECTS
9300 Jackman Tim E ◎ 765-0642
9301 Mc Coy Herbert M ◎ 763-6737
9304★Mc Farland Michl R ◎ 765-2545
9305 Martin Joseph H ◎
9306 Colvin Lloyd P ◎ 763-3503
9307 Peters James R ◎ 761-2407
9308 Parker James L ◎ 765-1127
9309 No Return
9310 Mc Caffrey B J ◎ 761-0084
9311★Griswold Danny G ◎ 763-7177
9312 Menke Robt V ◎ 761-8180
9313 Green Ernest ◎ 761-7309
9314★Stringer David E ◎ 966-9052
9315 Vacant
9316 Kurtz Mary E Mrs ◎ 761-0976
9317 Eagle Jack L ◎ 763-4568
9318★Poole Ronald ◎ 765-5926
9319 Borchardt Harold R ◎ 761-5942
9321 Brantner Stanley J ◎ 761-5951
9400 Alpough Peter C ◎ 763-2108
9401 Moorehead Arth E ◎ 763-8409
9402 Smith Whitney A ◎ 761-7730
9403 Phillips Floyd ◎ 765-1420
9404 Moriarty Patricia Mrs ◎ 765-0244
9405 Stuart M F ◎ 761-0521
9406 Parker Wm A ◎ 761-4031
9407★Gatrel Gary ◎
9408 Johnston John H ◎ 765-6692
9409 Thurman Teresa ◎ 761-9300
9410 Pierce Charles ◎ 761-8285
9411 Mills Larry C ◎
9412 Shipman James W ◎ 763-7237
9413 Wilkerson Kenneth L ◎ 761-7216
9414 Rose Robt L ◎ 763-2761
9416 King Alvah R ◎ 761-2714
9417 Plummer Anderson D ◎ 761-4076
E BANNISTER RD INTERSECTS

422

ZIP CODE 64134
E 103D ST TER INTERSECTS
10300 Le Clare Harold ◎ 763-4936
10301 Hosey Earl J ◎ 761-0981
10304 Shilt James H ◎ 761-0887
10305 Biggs Gary F ◎
10308 Babylon Max L ◎ 761-2887
10309 Norgren Edw ◎ 761-7435
10312 Harrington L Jean Mrs ◎ 761-2663
10313 Jones Virgil C ◎ 761-2303
10316★Polson Larry E ◎ 761-1831
10317★Underwood R B 765-3205
10320 Cooper Jesse D ◎ 963-5981
10323 Hummel Robt E ◎ 761-5656
10400 Anschutz Harry W ◎ 761-8637
10403 Leake Keith R ◎ 761-5499
10406 Loveland J C ◎ 761-1252
10409★Newhouse Richd L ◎ 765-6952
10410 Vacant
Kachel Daniel E ◎ 763-4340
10413 Dent Glen L ◎ 761-3689
10414 Williams Eileen ◎ 761-1792
10419 Ross Robt G ◎ 761-8132
10420 Dunn Robt L ◎ 763-6023
10423 Riney Fred L ◎ 761-2819
10424 Calegari Bill ◎ 761-2908
10427 Parkhurst K Harry ◎ 763-7675
10428 Fender Allen T 765-5484
E 105TH ST INTERSECTS
10501★Rhone Don 765-4764
10505 Pope Leslie R ◎
10506 Hawley Donald ◎ 763-7392
10509 Earley David E ◎ 761-4465
10510★Bahner Bernard L 765-3076
10511 Harp Ronald G ◎ 763-0878
10514★Ross Larry ◎ 763-6484
10515 Vacant
10518★Rhodes Larry L ◎ 761-7591
10519 Duggar Lloyd M Jr ◎ 763-0543
10521 Proffitt Charles R ◎ 761-4464
10522 Vacant
10526 Zimmerman Larry ◎ 761-8024
10527 Sheil Jas W ◎ 763-0010
10530 Thompson Gene A ◎ 763-5428
10601 Campbell Wayne E ◎ 763-0292
10602 Scott Leon D ◎ 761-7464
10605 Hill Robt W ◎ 765-6239
10606 Bollinger Walter Mrs 763-9847
10608 Morgan Wm P ◎ 763-5861
10611 Bohl Norman L ◎ 765-0460
10612 Lombardino Charles ◎ 763-2795
10615 Beer Bernice I Mrs ◎ 761-6728
10616 Foland Wayne R ◎ 761-6010
10619 Fisher Paul M ◎ 761-4806
10620★Bland Gary R 765-3528
10623 Heckathorn Virgil W ◎ 763-3865

426

RUSKIN WAY INTERSECTS
11202★Hilfer Michl L 761-4479
11203★Harvey Jerry Ds
11204 Wilmurth Billy F 763-2714
11205 Mathes Wm S
11206 Hobbs Larry L ◎ 763-2626
11207 Corum Lee R ◎ 763-7509
11208 Rookstool Lawrence H ◎ 761-0187
11209 Dewhirst Geo D ◎ 763-8979
11210★Duple Mark 761-4957
11211★Laws Lester Jr 763-4259
11212★Brown Richd D ◎ 765-3183
11213 Powell Helen G Mrs ◎ 761-1761
11214 Alvarado Benj ◎ 763-1726
11215 No Return
11216 Flagle Steve ◎
11217 Bailey James R ◎
11218 Glidewell Donald E ◎ 763-4153
11219 Iser Richd A ◎ 763-1952
11220 Simrell John C 765-1025
11221 Ainsworth Steve E ◎ 761-9281
11223 Dixon Bruce G ◎ 765-1525
11225 Service Wallace 761-2485
E 114TH ST INTERSECTS
11400 Thompson Raymond L Rev ◎ 761-5310
11401 Geoulos M ◎ 761-7752
11402 Gibson Robt D
11403★Rogers Francis E
11404 Howard David K ◎ 761-3327
11405 Vacant
11406 Frederick Dorothy J 761-7976
11407★Woods L 966-0367
11408 Singleton Gordon A ◎ 761-3339
11409 Boerger Leonard N ◎ 765-6981
11410 Vacant
11411★Guyette Roland ◎ 765-5117
11412 Young Ina P 765-3878
11413 Blankenship
11414 Beckert Robt L ◎ 765-7640
11415 Curliss Edw L ◎ 761-6139
11416 Jones Frances L ◎ 763-4204
11417★Jones Betty J Mrs ◎ 765-4988
11418 Lavenberg Albert E ◎ 763-4103
11419★Seaba V J 761-5095
11420 Olewine Robt E ◎ 765-5695
11421★Ruth Steve ◎
11422 Sheldon Marion 763-0568
11423 Kenney Charles L ◎ 761-0568
11424 Bishop Norma Mrs ◎ 761-2112
11425 Stapleton James P ◎ 761-0157
11426 Alumbaugh Carl G ◎ 761-8569
11427 Brown Bill ◎ 763-0684
11428 Slaughter Arth D ◎ 761-0696
11429 Workman Hobart F ◎ 761-4628
11430 Camp Joan B Mrs ◎ 763-4305

608

ZIP CODE 64134
11500 Vacant
11501 Winn Jack R ◎ 765-6347
11502 Mc Kinzie John R ◎ 765-0621
11503 Douglas Robt ◎
11504 Lukens James R ◎ 765-1494
11505 Clark Paul ◎
11506★Tutt R
11507 Ross Anderson ◎
11508★Mc Dowell Ann J 756-7836
11509 Perkins Harold ◎ 761-8936
11510★Cunningham Mattie 761-2480
11511 Hinton Wm K ◎ 765-5290
11513 No Return
11514 Vacant
11515 Juedeman Ronald L ◎ 763-1617
11519★Hambrick Haywood L 765-5059
11520 Beagle H Wayne ◎
11521 Grashuis Jacob S ◎ 765-1040
11600★Hall Lloyd Jr 761-0313
11601 Euwer Wm J ◎ 761-1994
11604 Vacant
11605 No Return
11607 Winfield Eug ◎
11608a Edmonds Albert V ◎ 763-8664
11609 Williams Bobby G ◎ 966-8445
11611 Tucker James M ◎ 763-9631
11615★Fuqua Allen D ◎ 765-7829
11616★Nicholson Worley H 765-0884
11618 No Return
11619 White Richd ◎
11620★Parsons Don 763-6419
11622★Blackmon Prentice 763-6986
11624★Tyson Walter T 966-1507
11625 Kennedy Thos J ◎ 761-4136
E 117TH PL INTERSECTS

328

PALMER AV N —FROM 51ST STREET TER N NORTH AND NORTHEAST

ZIP CODE 64119
5112 Hinkle Francis E ◎ 455-0481
5116★Ballenger James C ◎
5120 Houghtlin Rick ◎ 453-7727
5123 Moore Clinton ◎ 454-5613
5124 Griffith Gerald ◎ 454-8205
5128 Bailey Larry E ◎ 454-3824
5129 Drydale Ronald M ◎ 454-4408
5132 Osborn Lester L ◎ 453-7576
5133 Purtle M L ◎ 454-3730
5136 Olvera Joe M ◎ 453-5693
5137 Utley Roy E ◎ 454-4510
5140 Violett Vernon W ◎ 452-9037
5141 Pemberton James ◎
5144 Bagby Walter L ◎ 452-3362
5145 Cockrum Roger ◎ 454-2140
5148 Lewis Dennis D ◎ 452-1270
5149 Donovan Wayne C ◎ 453-7006
5152★Sayles Richd C ◎
5153 Belt Thos J ◎ 452-8020
5200 Bless Lawrence E ◎ 454-5529
5201 Stewart Harold D ◎ 452-2643
5204 Dykes Jack ◎ 454-0602
5205 Ford Robt E ◎ 453-4050
5208 Steffen Richd O ◎
5209 Herrick Dwight D ◎ 454-9560
5212 Wright David A ◎ 453-2655
5213 Stump Paul S ◎ 454-5238
5216 Mistler Rodger G ◎ 454-7465
5217 Baker Theron C ◎ 452-2718
5220 Schumacher Arth J ◎ 453-5388
5221★Loney Terry L ◎ 454-5416
5224 Walters Wm E ◎ 453-2878
5225 Pace Glen R ◎ 453-7901
5228 Philipps Malvin A Jr ◎ 453-2119
5229 Green Connie L Mrs ◎
5232 Chisam Wm K Jr ◎
5233 Rodgers Wm W ◎ 454-8681
5236 Chaszar Joseph B ◎
5237 Gragg Benjamin J ◎ 454-2579
5240★Hernandez Danny ◎
5300 Bach James C ◎ 452-4434
53D ST INTERSECTS (NOT OPEN)
5301 Elkins Wm ◎
5306 Moore Anna L Mrs ◎ 453-1172
5309 House Floyd A ◎ 454-0543
5310 Miller Sherman ◎ 453-6838
5314 Wine Stewart L Rev ◎ 452-5565
5315 Raccuglia Dominic S ◎
5318 Romine Patrick J ◎ 452-9044
5321 Boring Dean A 453-0806
5322 Gilpin Logan C ◎ 453-0126
53D ST TER INTERSECTS
5328 Forkner R Wayne ◎ 454-9361
5329★Goben Larry 454-2604
5335 Reynolds James M ◎ 454-4615
5336 No Return
5339★Shores Ralph ◎ 455-1582
5342 Norwat Gerald H ◎ 454-3615
5347 Custer James T ◎ 454-5798
5348 Asbury Ray C ◎ 452-5915
5353 Renfro John A ◎
5354 Kingsolver Morris V ◎ 452-9424
5358 Jones Paul K ◎ 453-0074
5359★Johnson Rodney G ◎ 452-1342
5364★Brown Robt ◎
5365 Licata Sam P ◎ 452-8699
5368★Pope Danl R ◎ 454-6926
5369 Kennedy D G ◎ 453-6978
5374 Mc Mutten Bill ◎ 452-4474
5375 Majors James E ◎ 452-9278
5379 Walz Nicholas F ◎ 452-5180
5380 Jones Frank M ◎
5383 Crain Jerry W ◎ 453-7863
5384 Seifers Ovid W
5388 Palmisano Anthony J ◎ 454-3751
5390 Witte Conrad G ◎ 454-2573
GRACEMORE INTERSECTS

242

PALMER DR —FROM 4731 OZARK RD SOUTH

ZIP CODE 64129
4733★Cleary Robt J 921-7939
4800 Garrison O A ◎
Teel Ollie B Mrs 923-0151
4809 Kolie Richd A ◎ 861-6721
48TH TER INTERSECTS
5100★Zink Stan ◎ 861-8372
5101 Brown Richd ◎ 923-8690
5106 Dumas Henry E ◎ 923-3617
5109★Freeland Jim H
5110 Allen Ralph ◎ 923-7819
5114 Henderson Morris W ◎ 921-0319
5117 Stangl L Pat ◎ 921-1206
5118 Jones Melvin L ◎ 924-8641
5122 White Milton J ◎ 924-5755
5125★Cox John Sidney 923-4228
5126 Lawrence Alice J Mrs ◎ 923-9499
5130 Hough Rolland J ◎ 924-3311
5131 Miller Wilma E ◎ 861-4754
5134 Glassinger Leo A Jr ◎ 921-3055
5135 Kissee John A ◎ 921-9670
5138 Conard Darline ◎ 924-4660
5139 Ferguson David M ◎ 923-4738
5142 Galbraith Jimmie L ◎ 924-4610
5143★Boyd David B ◎ 923-3108
5147 Schowengerdt C E ◎ 923-3861
5148 Murray Donald E ◎ 924-6424
5151 Le Vota Anthony C ◎ 923-4347
5154 Huff Leonard ◎ 861-7762
5155 Anderson Azel ◎ 861-0768
5157 Harbert James E ◎ 921-9500
5159 Sullivan Ralph F ◎
5160 No Return
5161 Wissinger Jerry F ◎ 924-0031
5163 Eve Louena ◎ 921-3349
5164 Neeley Leonard L ◎ 923-8716
5165 Reid Carrol D ◎ 921-1712
5168 Calvin Jeff ◎
5169 Vacant
5172 Pierce Forest L ◎
5173 Shelton June ◎ 921-4832
5177 Sanders Bobbie G ◎ 923-3786
5200 Stephens Kenneth J ◎ 923-7465
5201★Brown C H Jr ◎ 923-1160
5205 Rich Chester ◎ 921-4679
5206 Mc Kinney Robt H ◎ 923-0015
5209 Farmer Clarence T ◎
5210 Burton Jerry J ◎ 923-4009

326

5612 Pearson U P ◎ 861-6380
5613 Morgason Terry L ◎ 861-4956
5618 Rose Arth L ◎ 921-8172
5619 Pearson Joseph W ◎ 921-5495
5624 Pearson Elvin B ◎ 923-4496
5625 Jackson Jimmie W ◎
E 57TH ST INTERSECTS

238

PALMER ST —FROM 7800 US HWY 40 SOUTH

ZIP CODE 64129
E 33D INTERSECTS
3305 Vacant
Bunker Hill Trailer Park
3307★Smith Larry
3309 Motley Lena M Mrs ◎ 861-4177
3311 Vacant
3313★Jackson Shirley Mrs ◎
E 33D STREET TER INTERSECTS
3315 Vacant
3317★Lange Claudia Mrs ◎
3319 Goth Ehrle F ◎ 921-9076
3328 Kendrick Jodie R 861-2465
3330 Vacant
3332 Rist Wm ◎ 921-1669
3334 Vacant
3336 Gallup Shirley D Mrs ◎ 861-7628
3338 Rice Ramona Mrs ◎ 924-8065
3340 Newton Ocie F Mrs ◎ 921-6442
3342 Lockhart Billy B ◎
3344 Gorman John ◎ 921-8670
E 34TH ENDS
3431 Bennett J C ◎
3432 Murray James A ◎ 924-8808
3433★Haney Virginia Mrs
3434 Cameron Lee M ◎ 861-1472
3435 Vacant
3436 Vacant
3437 Freeman David H ◎
3438★Milton Eleen ◎
3440 Chitwood Les A
3442 Haney Virginia L Mrs ◎
(NOT OPEN BET S 34TH AND S 35TH)
3501 Vacant
3502 Kalebaugh Trostle W ◎ 861-0441
3503 Vacant
3504★Smith Dennis
3505 Damske Clara ◎
3506 Vacant
3507 Vacant
3508 Vacant
3509 Vacant
3510 Coffman Richd ◎
3511 Vacant
3512★Nelson Charles
3514 Demoney H E ◎ 924-8389

238

PALMER STREET TER —FROM 1 BLK EAST OF E 35TH EAST

ZIP CODE 64129
E 33D INTERSECTS
3306 Vacant
3308★Lewis Wm
3306 Bunker Hill Trailer Park
3310 Vacant
3312★Thomas Georgia
3314★Britt Mack
3316★Arthur Terry
3318★Wutzke Jo Ann
3320 Callan Richd B ◎
3330 Vacant
3417 Vacant
3419 Vacant
3421★Owens Chuck
3422★Cleveland C B
3423 Vacant
3424★Keen Gary ◎
3425 Kain David T ◎
3426★Trison Tom
3427 Vacant
3428 Stone Cora Mrs ◎ 924-8730
3429 Gould Roger D ◎ 924-0323
3430 Vacant
3431 Shinner Tom ◎
3432 Vacant

TP	Adjoining	Source
-	✓	R. L. Polk Co.

RICHMOND AVE 1975

NE RED BUD LA (NKC)—Contd
1614 Sunny Hills Apartments 221-2300
101★Geary D L 421-1031
102★Mangiaracina Frank 421-4794
201 Niccoli B J
202★Freund Leo
301 Zemaitis Dave W 474-6688
302 Ehlers Bill W 221-5673

244
REED JAMES A RD —FROM E 63D STREET TRFWY SOUTH

ZIP CODE 64133
6400 Pence Mildred M Mrs ◎ 353-1078
6401 Vacant
6420 Renowski Edw A ◎ 353-1493
6500 Masters Myrtle A Mrs ◎ 356-2826
6540 Parker Beulah Mrs ◎ 353-7118
E 66TH INTERSECTS

246
6708 Kerr Virgil J ◎ 356-2421
6712 Speck John M ◎ 353-7216
6718 Burris Donald L
6724 Doane Raymond H ◎ 356-3486
6730 Graybeal Wilbert O ◎ 353-2635
6800 Davis Bert Jr ◎ 356-3073
E 69TH ST INTERSECTS
6900★Brelsford Don ◎ 359-4729
6910 Yocum Delmar D ◎ 737-0083
6920 Buehler Lawrence G ◎ 358-2973
6940 First Free Methodist Church 356-8833
E GREGORY BLVD INTERSECTS

247
7101 Roberts Wm M ◎ 356-1512
7103 Stillwell Alma E Mrs ◎
7104 Oglesby Pat T 356-3670
7105 Van Horn Ora Mrs ◎ 353-0185
7112★Jack Jewell Mrs ◎ 358-4956
7115 Armstrong Donald R ◎ 353-9353
7118 Shafer Marvin L ◎ 356-8253
7119 Maddux Edgar R ◎ 353-3423
7120 Baker Glenn F ◎ 356-1963
E 72D ST INTERSECTS
7200 Leveridge Rex W ◎ 356-8269
7206 Wessley Ronald R ◎ 356-6845
7207 Stansbury Josiah F ◎ 358-1757
7210 Reid Robt H ◎ 353-2738
7211 Creek Edna J Mrs ◎ 356-1780
7212 Hedges Geo E ◎ 356-5640
7216 Leftwich Carmelita Mrs ◎
7218 Brown Robt M ◎ 356-5166
E 73D ST INTERSECTS
7305 Mc Caffery Hugh ◎ 737-0432
7307 Hastings John J Rev ◎ 358-0721
E 73D ST TER INTERSECTS
7318 Faulkenberry Ralph E ◎ 358-2859
7325 Bertram Karl A Jr ◎ 353-2580
7349 No Return
E 74TH ST INTERSECTS
7401 Myers G Pennell Mrs ◎
7404★Fizell Gregory ◎ 358-7074
7405 Edgar Cecil L ◎ 356-1277
7408 Kramer Joseph M ◎ 353-1182
7409 Vacant
7415 A-Allen Tree Service 353-5577
7416 Miller Wanda Mrs ◎ 353-0874
E 77TH ST TER INTERSECTS
ZIP CODE 64138
7502 Duvall Ann 737-1526
7510★Burns Jack 358-5967
7516 Hilton
7518 Haag Robt K ◎ 353-0696
7528 Bonnell Daniel ◎ 358-7861
7604 Harris Richd C ◎ 358-1467
7700 Mc Caffrey Kennels 353-1855
7701 Sharon Robt C ◎
Sharon's Retirement Home 353-4181
7706 Linhardt Carla M ◎ 358-0000
7708 Horner Howard D ◎ 356-5929
7710 Morgan Ed T
7714 Marsh Michl J ◎ 356-8470
7718 Smith Lonnie D ◎
7722★Sloan Jerry D 737-1152
7724★Thompson Eric R ◎ 358-6338
7728 Smiddy Leonard A ◎ 353-7694
7732 Welter Rich ◎ 356-5487
7838 Vacant
7840 Mc Comas Lewis E ◎
7844 Zimmer Robt F ◎ 353-5942
7857 Galbraith Leslie L ◎ 358-5653
7859★Potter Kenneth C 356-7865
7861 Tosspon Carl L ◎
7863★Meyer Chris ◎ 358-9622
7867 Pruitt Michl D ◎ 358-6237
E 79TH ST INTERSECTS
7909 Angerman Geo H ◎ 356-0471
E 79TH ST TER INTERSECTS
7911 Duncan Richd N ◎
7916 Shockey Emanuel R ◎ 353-0091
7919★Comstock Thos ◎ 359-0672
7923★Linnane Paul T ◎ 358-1870
7927 Shaw Connie C Mrs ◎ 353-9294
E 80TH ST TER INTERSECTS
8007 Helling Eug J ◎ 353-2221
8017 Spencer Steven R ◎ 358-6295
8025 Durham Archie ◎ 356-1102
8030 Aldrich Cliford ◎
8040★Rupert Keith 358-7139
8044 Duffy Michl R ◎ 356-4616
8045 Gann Herbert H ◎ 353-7307
★Gann Roger H 356-2618
E 81ST ST INTERSECTS
8101 Smardo Fred L ◎ 356-5353
8111 Bird Bill D ◎ 353-7265
8115 Atkins James R ◎
8119 Huddleston Ben L ◎
8126 Mullins James L Jr ◎ 353-3720
8132 Jones Howard
8137 Hartley Allen ◎ 358-5966
8139 Reich Harold P ◎ 353-2298
8144 Mehl Clemens H Rev 353-8161
E 82D ST INTERSECTS BLUE RIDGE EXTN
8221 Smith Frank M ◎ 358-2518
8223 Deboar Irene Mrs ◎ 353-3203
83D ST INTERSECTS

428
E 87TH INTERSECTS
E 89TH INTERSECTS
E 89TH ST TER INTERSECTS
E 90TH INTERSECTS
8800 Sutter John G ◎ 765-4871
8802 No Return
8804 Fry Betty N Mrs ◎ 761-7889
8806 Ward Glaves E ◎ 763-2232
8808 Guiter Josephine M ◎ 763-6625
8810 Hammons James H ◎ 761-9840
8812★Mc Williams Lyle 765-6341
8814 Vacant
8818 Thurman Jerry C ◎ 763-4782
8820 O'Hern Thelma Mrs ◎ 765-1334
8822 Sturlock Jon M ◎ 765-3346
E 89TH ST INTERSECTS
8904 Kiefer Clarence A Jr ◎ 763-4122
E 89TH ST TER INTERSECTS
8918 Gonzales Raymond ◎
E 90TH ST INTERSECTS
9004★Swezey Walter L ◎
SYCAMORE AV INTERSECTS
9014 Herndon Roger ◎ 761-6018
E 90TH ST TER INTERSECTS
9025 Smith Robt T ◎ 761-4294
9026 Kenney Ronald W ◎ 763-4319
9027 Schofield Oscar I ◎ 761-9685
9028★Perry John ◎
9029 Cronley Wm P ◎ 761-8503
9030 Kurtz Geo H ◎ 763-3632
9031 Davis Geo W ◎ 761-3308
9033 Worsfold Wm ◎ 763-6194
E 91ST INTERSECTS
9101 Williams Oscar ◎
9103 Grissom Harry ◎ 761-4219
9105 Popalisky J Robt ◎ 761-1979
9107 Watkins J Ralph ◎ 761-3004
E 91ST TER INTERSECTS
9109 Chesney Jack W ◎ 761-6099
9111 Burton Calvin J ◎ 761-1710
9113 Wilkins Roger ◎ 761-8740
9115 Smith James R ◎ 763-3487
E 91ST ST TER INTERSECTS
E 92D INTERSECTS
9201 Mc Elroy Raymond C ◎ 763-2373
9203 Bomar Wm A ◎ 761-4947
9205 Barton Roland ◎ 769-6139
9207 Garvin Ralph V ◎ 761-7116
9209 Scammacca John J ◎ 763-1633
9211 Tracey Robt L ◎ 761-7652
9213 Sims Robt ◎ 761-5294
E 92D ST TER INTERSECTS
E 93D INTERSECTS
9303 Hackett Robt L ◎ 763-5070
9305 Schmidt Dave ◎
93D ST TER INTERSECTS
9309 Cassil Marie ◎ 769-2586
E 93D ST TER INTERSECTS
9420 Saint Luke's United Methodist Church 761-6244
E BANNISTER RD INTERSECTS

252
ZIP CODE 64134
E 96TH ST INTERSECTS
9600 Truman Harry S School 761-2073
9701★Dixon Harry W ◎ 765-4611
9711 West Larry D ◎ 765-0421
9723 Flanagan Geo A ◎ 765-2086
9801 Iiams Wm C ◎ 763-2949
9803 Price C M ◎ 761-5773
9805 Walters Ronnie D ◎ 763-5375
9807 Scott Charles S ◎ 761-2951
9809 Mc Crackin Glen F ◎ 763-1641
9811 Billings Marjorie Mrs ◎ 763-5047
9815 Vacant
9824 Vacant
9826 Crouch Robt M ◎
E 99TH ST INTERSECTS

303
REIGER RD NW —FROM NW 68TH NORTH WEST

ZIP CODE 64118
W 72D NORTH INTERSECTS
BAUGHMAN RD BEGINS
1003 Vacant

515
REINKING RD NE

ZIP CODE 64156
Carlton Evert B ◎ 781-0142
Walker Joel G 781-2544
Douglas James L 781-1049
11206 Barnett Oather L 781-7125

516
108 No Return

446
RHINEHART RD —FROM LEE'S SUMMIT RD WEST AND SOUTH

ZIP CODE 64139
LITTLE BLUE RD INTERSECTS
17 Kelso Phillip L ◎ 373-2762
8141 Pitt Fred D ◎ 373-4985
TURNER RD INTERSECTS
8200 Vacant
8300 Meyers
8621 Buehre Jerry F ◎
8629 Edwards W Ross ◎ 524-6822
E 87TH ST INTERSECTS
8801 Vacant
8803 Vacant
15101 Walter Melvin L ◎ 373-5068
15301 Ketteman Tom L bldg contr ◎ 373-1444
15315 Christian Floyd T ◎

105
RICHARDS RD —FROM 1 BLK SOUTH OF W HARLEM RD (HARLEM) NORTHEAST 1 WEST OF BC&QRR

ZIP CODE 64116
10 Vacant
70 Vacant
100 Vacant
250 Missouri Exhibitions Inc mdse mart exhibition center 842-5939
Kansas City Trade Mart mdse mart exhibition center 842-5939
Andersen B C Construction Co bldg contrs 421-5226
Engineered Sales Assn Inc distrs hydraulic equip 421-1240
Hangar Lounge tavern 421-5656
Omni Air Inc (Br) 421-6733
Runway Restaurant 421-5656
300 Vacant
310 Vacant
400 F A A Airport Traffic Control Tower 221-4487
City Aviation Dept 471-4946
420 Vacant
464 Midwest Wool Marketing Corp (Br) 842-8581
472 Osgood S M Co mfrs water sport equip 421-0329
474 Silvermat Service Co scrap silver recovery 842-6270
480 American Truck Driving Schools 471-4141
500 Vacant
600 Vacant
Vacant
836 Baker's College Of Aviation flight & ground sch 221-8111
838 Aero Mechanics School 471-8085

216
RICHMOND AV —FROM 7519 E 12TH SOUTH

ZIP CODE 64126
E 13TH ENDS (NOT OPEN)
TRUMAN RD INTERSECTS
E 16TH INTERSECTS
E 16TH STREET TER INTERSECTS (NOT OPEN)
E 17TH INTERSECTS
E 18TH INTERSECTS

242
ZIP CODE 64129
4726 Ellmaker Viola P Mrs ◎ 923-4202
4730★Smith Geo ◎
4734 Allison Larry N ◎ 923-6716
4738 Coberley Wilbur J ◎ 924-2205
4800 Miller Maxine M Mrs ◎ 924-7686
4804 Rendon Phillip D ◎ 924-6067
4808 Hammontree James F ◎ 924-0558
4812 No Return
4816 Elkins Paul ◎ 921-5572
4824 Ellington Ralph ◎

244
ZIP CODE 64133
6315 Burkholder Ed ◎ 353-3829
6319 Hollingsworth Frank E ◎ 356-5416
6320 Spruill Carol Mrs ◎ 353-5828
6323 Arthur Harvey J ◎ 737-0426
6324 Stringer Herman L ◎ 356-3745
E 64TH ST INTERSECTS
6404 Smith James A ◎ 358-1286
6407 Nave Richd J ◎ 358-7413
6420 Vacant
6424 Good Fred ◎ 356-0272
6432 Nelson Lawrence C Jr ◎ 356-3027
E 65TH INTERSECTS
6500 Kasiah Edwin L ◎ 353-2301
6501 Hayes Marie R Mrs ◎ 356-4349
6503 Vacant
6505 Yates Harold E ◎
6507 Clayter Mattie F Mrs ◎ 356-1218
6513 Yates James T ◎ 353-7179
6523 Vacant
Rear Vacant
6524 Vacant
6601 Vacant
6605 No Return
6609 Mc Clure Nellie M Mrs ◎ 353-3696
6615 Wolfe Eddie ◎
E 67TH INTERSECTS

246
E 67TH ST INTERSECTS
6706★Ashlock Larry 358-8897
6708 Sinclair Michl A 358-3669
6709 Anderson Cath Mrs ◎ 356-5257
6710 Dudley Charles R ◎ 737-1892
6711 Vacant
6714 Sloan Vincent ◎ 737-0923
6716 Schroeder David 358-8940
6720 Kroger Richd D ◎ 358-0887
6723 Brotherton Richd ◎ 356-0861
6725 Tomich Matt J ◎ 353-3285
E 68TH ST INTERSECTS
6800 Weber Herman ◎ 356-8518
6801 Emanuele Joseph A ◎ 358-7033
6802 Kemp Sonny G ◎ 358-7976
6804★Massey D J 358-1495
E 69TH ST INTERSECTS
6900 No Return
6901 Claxton Ralph ◎ 358-8912
6902 Ferney Herbert C Jr ◎ 353-0261
6903 Stewart Marie O Mrs ◎ 353-5783
E GREGORY BLVD INTERSECTS
7144 Gill Walter A ◎
★Jones Robt L ◎ 356-4183

247
Vacant
7200 Vacant
7204 Hiler Robt J ◎ 358-4834
7205 Spangler F Earl ◎ 353-2374
7208 King Paul G rental property ◎ 353-6836
7209 Robertson K Kenneth ◎ 353-7233
7211 Burton Herbert ◎
7212 Conrad Charles M ◎ 353-8942
7215 Ralls Willard F ◎ 358-9722
7216 Smith Mylin C ◎ 353-5247
7220 Jordan Geo A ◎ 358-8289
7221 No Return
E 73D ST INTERSECTS
7310 Vacant
7318★Kelly R
7326 Williams Wilbert J ◎ 358-6335
7331 Cason Frederick ◎ 358-7815
7334 Shumate Robert ◎ 358-7132
7400 Cunningham Doss ◎
ZIP CODE 64138
7520 Dugger Edw A ◎
7524 Vacant
7528 Cappo Anthony J ◎
7532 Brown Robt G ◎ 356-5435

418
FAIRWOOD DR INTERSECTS
9313 Bratcher Jeannine Mrs ◎ 761-2441
9314 Martin G W ◎ 765-3087
9315 Plante Robt H ◎ 761-4094
9316★Jackson Wm N Jr 765-1448
9317 Scardino M F ◎ 761-0814
9318 Hartsock Theo C ◎ 763-6560
9319 Winders Dallas C ◎ 761-0746
9320 Cunningham Ogle L ◎ 763-5924
9321 Seller Donald E ◎ 761-3354
9322★Fouts Thos ◎ 763-2059
9323 Bussard Felix E ◎ 763-7858
9400 Prewitt Donald E ◎ 763-2394
9401★Peters Robt L ◎ 765-0074
9402 Hudson Cleo L ◎
9403 Byers David ◎ 761-2549
9404 Cousin Sammy ◎ 765-2631
9405 Luebbert Lawrence H Jr ◎ 765-2672
9406 Zuck Virginia L ◎

TP	Adjoining	Source
-	✓	R. L. Polk Co.

E 47TH ST TER 1970

47TH ST W—Contd
Summit House On The Plaza
Apts—Contd
1105 JOHNSON FLORENCE E
931-8769
1106 LYNCH MARY M MRS
561-2189
1107 ROACH RUTH R 561-8421
1108 FROHOFF F J
1109 MARSHALL HELEN E
1110 TURNER MARGUERITE MRS
531-2122
1111 VIOT MARY J MRS
531-4880
1112 SCHOCKLEY RALPH O
931-0397
1113 MOORE HUGH C 531-4356
1114 NEAL HELEN MRS
931-7986
1115 CORNELL ELSIE 531-4128
1116 STEPHENS KATH 931-9318
1117 SCHOR ANNA 531-3952
1118 MOLUMPHY WILLIAM J
561-7694
1119 GALLERY MARY K
753-7977
1120 BARRY ARTH H 561-2062
---SUMMIT INTERSECTS
800 JOHN HANCOCK BUILDING
753-1919
FLOORS
1ST FL HANCOCK JOHN
BUILDING (OFC)
531-1111
1ST FL HANCOCK JOHN MUTUAL
INSURANCE CO
753-7575
1ST FL CONFERENCE ROOM
1ST FL HARRIS UPHAM & CO
INC INV 753-5622
ROOMS
200 AMERICAN REPUBLIC
INSURANCE CO
204 ALBERS MILLING CO FEED
MFG 753-3286
206 JOHNSTON CLIFF &
ASSOCIATES INC
561-2429
209 GENERAL ELECTRIC
HOUSEWARES DIV-ZONE
OFC 561-7948
210 GENERAL MOTORS CORP
531-2600
211 RAWLINGS WM S CO
931-1164
800 AMERICAN REPUBLIC INSURANCE
CO (SLS OFC) 531-4471
213 UNITED STATES BORAX &
CHEMICAL CORP 753-1215
214 BUSHMAN INVESTMENT CO
531-8890
214 SERVICE GROUP INC THE
531-8890
214 MIDWEST INVESTMENT CO
531-8890
21 HARMON SMITH INC ADV
AGCY 756-0756
222 MILLER & O'LAUGHLIN
LWYRS 561-1730
301 AGRICAREERS INC EMP
AGCY 531-7980
302 BLOCK H & R INC
531-6400
306 PROCTER & GAMBLE
DISTRIBUTING CO THE
(UNIT OFC) 753-7224
308 CAREY SALT CO THE
531-2000
309 PROCTER & GAMBLE DISTR
CO (UNIT OFC) 753-7224
310 VACANT
313 CONTINENTAL PLACEMENT
INC EMP AGCY 753-7700
315 SWORD RICHD O
PSYCHIATRIST 561-9100
318 WESTAMERICA SECURITIES
INC 931-4410
320 HANCOCK JOHN GROUP
SALES OFFICE 753-3432
321 CREDIT BUREAU REPORTS
INC 931-3371
323 EMBRY-WELSH & CO INS
AGENCY 753-2395
323 PREFERRED PROPERTIES
INC 531-1111
401 LANTS INC
LOANS-PROPERTY
931-0132
401 SULLIVAN G DENNIS LWYR
931-0132
403 AERO-SHELL
ARCHITECTS-ENGINEERS
931-7020
403 BIGGS-DRUMMOND ARCHTS &
ENGINEERS 561-0596
403 TERNEY JAMES F ARCHT
561-0595
404 COCA-COLA CO THE
(FOUNTAIN SLS DEPT)
931-5440
406 BERNSTEIN-REIN &
BOASBERG ADVERTISING
INC 753-1100
409 TRENTON FOODS (DIV OF
CARNATION CO) 931-5300
411 T V GUIDE (SUBSIDIARY
OF TRIANGLE PUB CO)
531-4700
416 LILLY ELI & CO (SLS
OFC) PHARMACEUTICAL
MFRS 531-1181
418 VACANT
421 WESTAB INC SCH SUPS
MFRS 753-8583
422 GREAT WESTERN AUTOMATIC
SPRINKLER CO 561-1518
423 RESERVE MORTGAGE CORP
LOANS 753-0221
501 I D S CREDIT CORP
753-5480
503 BRAND FRANCHISE
DEVELOPMENT INC FOOD
BROKERAGE 753-6067
505 PONTIAC MOTOR (DIV
GENERAL MOTORS CORP)
753-7737
508 MOORE BUSINESS FORMS
INC (REGIONAL OFC)
931-0224
509 BERNSTEIN REIN &
BOASBERG ADVERTISING
INC CREATIVE & ACCTG
DEPT
511 LYCDON JACK R
INVESTMENTS 753-2727
512 AMERICAN DEHYDRATORS
ASSN 531-3464
514 ANACONDA AMERICAN BRASS
CO 753-3341
515 VACANT
517 AREA & PRESBYTERY OFC
OF THE UNITED PRESBY
CH 753-6511
522 WENGER MIXER MFG CO
ELEC EQUIP 531-6833
523 MIDWEST CHRISTIAN
COUNSELING CENTER
561-3726
601 OAKITE PRODUCTS INC
931-6619
605 SOUTHEASTERN PUBLIC
SERVICE CO ICE MFG &
COLD STORAGE 561-1173
606 COLHOUR INSURANCE CO
931-6400
606 GUARANTEE MUTUAL LIFE
CO 931-2762
607 FAMM THEO BREWING CO
(REGIONAL OFC)
531-2666
608 STALEY A E MFG CO
(INDUSTRIAL PROD DIV)
FOOD MFR 753-0203
610 CONRAD WILLIAM MERRILL
ARCHITECT 931-0200
612 HINKLEY R H CO BOOKS
RET 931-9354
615 SOWDERS A GLENN JR LWYR
531-6163
616 WEAR-EVER ALUMINUM INC
CUTLERY 531-5741
620 HANCOCK JOHN MUTUAL
LIFE INSURANCE CO FARM
LOANS 531-8886
621 THOMPSON J WALTER CO
ADV AGCY 931-4005
623 FAMER ADVERTISING INC
753-0426
707 PROCTER & GAMBLE
DISTRIBUTING CO THE
SOAP MFRS 753-7224
710 VIVO MORTGAGE &
INVESTMENT CO INC
531-1851
712 TYLER WALDO E
INVESTMENT COUNSELOR
561-8900
714 TUPPERWARE HOME PARTIES
(BR) PLASTIC PROD
753-5010
715 BIERSMITH & WALSH LWYRS
561-1500
717 DUNCAN HERBERT E
ARCHITECTS INC
561-6900
721 SCHLEICHER & SHAPIRO
LWYRS 753-8201
723 PILOT FRANCHISES INC
561-2021

155

---MADISON AV INTERSECTS
---ROANOKE PKWY INTERSECTS
912 JONES S MEIGS DENTIST
531-7347
912½ UTO LLOYD 531-7349
916 WOODWARD & CO REAL EST
753-1515
919 VACANT
920 OWENS & JANES PHYS 753-2223
---BELLEVIEW AV INTERSECTS
1013 STOCKWELL RALPH E •
931-2684
---JARBOE ST INTERSECTS
1101 DARNALL S STEWART 531-4435
1105 VACANT
1106 SWINNEY E F SCHOOL
931-5558
1107 EMBREE WM J •
1109 SHELLITO ESTELLE •
531-0364
1115 PLAZA TELEVISION SERVICE
931-9800
1121 E S O S-PICTURES INC HOME
MOVIE EQUIP 531-1481
---HOLLY ST INTERSECTS
1201 LA PIRIE BEAUTY SALON
753-9424
1207 HOLLY CLEANERS
REAR HOLLINGSWORTH GEO P •
561-0671
1209 VACANT
1211 GOODRICH RENE S • 753-2514
1214 POWER SPECIALTIES OFFICE
MIDWESTERN ENGINEERED
EQUIPMENT CO 531-1078
POWER SPECIALTIES CO
531-6550
1215 WILLSON-LOWE INC FOOD
BROKERS 753-1260
1216 MADALYN'S STYLON 753-4737
1217 PUETT UEL E • 531-8092
---MERCIER ST INTERSECTS
1303 HOAGLAND BERNICE R MRS •
931-6307
1307 VACANT
---TERRACE ST INTERSECTS
1410 VACANT
1412 WEAR-EVER ALUMINUM INC
753-3306
1414 VACANT
1419 NO RETURN.
1421 PARR'S MARKET GRO 753-9755
---LIBERTY ST INTERSECTS
1500 APARTMENTS
1 STEINCROSS TEMPY 361-7119
2 WALMER NADINE 753-3003
3 HARTWIG M L 561-4337
4 VACANT
1502 APARTMENTS
5 RAYBURN JACK K 531-1043
6 KISSICK RUBY MRS •
561-1198
7 VACANT
8 VACANT
STREET CONTINUED
1507 ACT TWO DRSMKR 531-7572
---FAIRMOUNT AV INTERSECTS
---WYOMING ST INTERSECTS
---GENESEE ST ENDS
---BELL ST INTERSECTS
---STATE LINE INTERSECTS

68

47TH ST TER E -FROM OPP 4722
OAK EAST

---ZIP CODE 64110
600 BUCKINGHAM RUTH G MRS •
931-8699
604 SWAFFORD MICHAEL C •
753-8370
608 BOOSER STEPHEN J 931-6439
612 WALLER DALE L • 931-1736
625 PFAFF BERT H • 561-1786
---ROCKHILL RD INTERSECTS
---HOLMES ST INTERSECTS
---(NOT OPEN BET HOLMES AND
---FLORA AV)

94

---FLORA AV INTERSECTS
1601 WYNNE MARGT L 924-6019
1605 BARNETT JAILIN MRS
861-3164
---WAYNE AV INTERSECTS
1716 VACANT
1718 VACANT
1720 VACANT
1722 BANKS RITA MRS • 921-8754
1723 CROWLEY JAMES •
1724 VACANT
1726 NO RETURN
1727 OWENS JUNE MRS •
1728 ENOIS MARIE MRS 921-4990
1729 MENTER BARBARA MRS •
923-2899
1730 WARD ROY L 921-3577
1731 LEWIS GLADYS MRS 924-4859
1732 VACANT
1733 MC CULLOUGH VERNON
1734 ELLARD RAYMOND I •
921-4361
1735 JOHNSON LLOYD E •
1736 FUBLEY ESTHER MRS •
1737 ROGERS HERMAN •
1738 VACANT
1741 VACANT
1745 MURRAY LOUISE MRS •
921-6522

132

---WOODLAND AV INTERSECTS
---ZIP CODE 64130
1800 RANGEL JUAN M 924-8659
1800½ CONTRERAS MARIA T
1801 THOMPSON ELLEN • 921-7255
1802 FAUTZ HARVEY W • 924-5429
1803 SHOEMAKER LLOYD M •
924-0890
1804 COONROD GLEN B 923-4080
1810 VACANT
1811 FARRIS ARTH M • 924-0206
1812 HICKLE AUSTIN M • 924-8831
1816 KELLEY MILLARD E •
921-3108
1819 WARD FRANK W • 923-2375
1820 NEIDERT JOSEPHINE B MRS •
921-9661
1821 RANGEL LUIS R • 861-8742
1823 LONGAN JOSEPH C • 861-3505
1824 CHISM GERALDINE L MRS
861-3130
PHILLIPS ALBERTA MRS •
861-3130
1827 JACKSON LANDIS H •
861-2199
1828 MITCHELL JR 861-3552
1832 KRUG HARRY • 924-5379
1833 SIMPSON JAMES • 923-5214
1834 ETHRIDGE BILLY C •
924-6920
1836 HUGHES JESSIE L MRS •
923-7629
1841 ROTHENBERG SIDNEY L •
923-8329
SCHWARTZ BERNICE MRS
923-8329
1844 FOGT EMMA MRS • 921-5392
---EUCLID AV INTERSECTS
2004 SILVERBERG EDW • 924-4683
2005 LAUDENBERGER EDGAR R •
924-3829
2009 KIRK DON J • 924-4240
2010 HOCD KENNETH B 861-7724
2012 NO RETURN
2014 SIMPSON JAMES M • 923-1691
2015 WALKER WM C • 924-4299
2016 LEUENBERGER JOHN C •
924-6997
2019 HAKE CLEM H • 923-2651
2022 VACANT
2025 WILLIAMSON RUSSELL •
924-4337
2033 STRATTON KENNETH L
924-2273
2037 WILKINSON ADA C MRS
921-0296
2039 MC FALL MARVIN 923-5490
2041 ARNCLD JOHN W • 921-3837
2102 SELLE FRED
2106 HERRIN DOROTHY J •
921-2762
2110 WHITNEY EUG •
2114 YOCUM DELMAR D • 923-7954
2118 BELL OTTO E •
2122 GLOVER W H 861-4663
2126 MOORE ROSS D

136

---BENTON BLVD INTERSECTS
3702 BENTON MANOR APARTMENTS
923-4795
100 HAMILTON ODELL 861-4396
101 ROGERS ELIZ 452-2201
102 CANADY JESSIE J
924-4453
103 KEMP DOROTHY MRS
200 RODGERS FRANK
201 LANE EDW P
202 STUBBS MATTIE 924-6006
203 SEARS MICHELE 921-6360
3703 APARTMENTS
100 GANT LES
101 SIDOBRE ANDREA MRS
924-1850
102 GAINS ERNEST H 923-3115
103 MASTERSON CORDELIA
200 STUART MAXINE
201 MERRITT JAMES 861-3840
202 BOWIE LINDA G 861-5203
203 CALVERT FLOYD A
921-7023
BSMT HOLLAND CECIL
3704 APARTMENTS
100 THOMPSON GWENDA
924-2548
101 VACANT
102 MORRIS RICHD
103 PARROTT THOS 861-5119
200 LEE GORDON
201 HOLIDAY GLADYS
202 BROWN JAMES
203 VACANT
3706 APARTMENTS
100 FILEY MAYOR
101 RHODES GARY 924-8642
102 WRIGHT TERRY
103 STUBBS ANNIE 923-2920
200 HEGLUND ELAINE 921-6257
201 SANDFORT CLARENCE
921-5624
202 VACANT
203 JOHNSTON VERNA MRS
924-7218
3707 APARTMENTS
100 WILLIAMS EVELYN
101 BROWN EURETHA 861-0320
102 THOMAS W L
103 DAWSON S
200 WEBB CAROL 924-5126
201 HARRIS JOHN
202 HENDERSON CHARLOTTE
923-5573
203 SHEILNER D A
3708 APARTMENTS
100 PROCTOR PATRICIA
923-2937
101 MAZON DOROTHY MRS
102 BROOKS FREDA 923-2395
103 NIMMS ESTHER 861-7623
200 KELLY JOSEPH
201 MC CLENDON STEINSON
924-7065
202 VACANT
203 WALKER BEVERLY
3710 APARTMENTS
100 VACANT
101 CRAWFORD DOROTHY
861-7091
102 REID EUNICE C MRS
924-5708
104 VACANT
200 VACANT
201 DALE GERALD 921-7645
202 SMITH LINDA K
203 JOHNSON CAROL A
3711 APARTMENTS
100 JOHNSON MARLETHA
101 SMITH AVANCHI 923-9622
103 GREEN BESSIE 924-4028
104 BEAUNETTE THELMA
924-1109
200 WILLIAMS MARGT 921-4476
201 TAYLOR LARRY 861-8762
202 DOWTON JIMMY 861-8799
203 VACANT
3712 APARTMENTS
100 GONZALES TERESA
101 GREEN ROBT A
102 WILSON JEFFERSON
103 WILLIAMS BRENDA
923-5112
200 MARSHALL E THELINE
861-0927
201 LINCOLN ROBT
202 MALORY ROBT 861-6535
203 GOODWIN GEO JR

185

3800 CURRY HORACE 924-1925
3804 JOHNSON RICHD •
3808 HARTLEY HERSHELL •
923-4298
3812 ELLIS CALLIE MRS •
861-3599
3900 JORDON THOMAS L • 921-8425
3904 LITTLEJOHN ALEX • 924-4566
3908 PARKER WM T • 861-2415
3912 WESSON SAMMY •
3916 OATES CARL H • 942-4281
3920 RAINEY HENRY L •
3924 DANDRIDGE ARMOUR JR •
3928 NORMAN JOHN H • 861-2348
3931 JOHNSON ROBT 861-5817
3932 THOMPSON ROSALIE C MRS •
923-4355
3935 OLIVER JAMES A •
3936 MINNER JAMES • 924-6921
---PARK RD INTERSECTS

327

---ZIP CODE 64129
6700 LAUDERDALE WILBER A •
861-5702
6950 OWEN CHAS •
6954 MADSEN HARRY F • 921-5657
6960 FAINTER HERBERT L JR •
6964 TARWATER JAMES C •
923-4134
6970 BRITZ RALPH •

242

---RICHMOND INTERSECTS
7600 MEIER RUBY MRS • 921-2824
7601 ANWANDER MARVIN B •
861-0449
7605 WARDEN LLOYD E • 921-3453
7608 JACOBS RICHD C • 861-5941
7611 GREENLEE BEN C • 921-1108
7614 VACANT
7617 SLATON GORDON • 924-1535
7618 JOSEPH JOHN E • 861-0781
7623 SMITH LOUIS E • 924-5722
7624 FINDLEY RICHD A • 921-4860
7700 BANNISTER STEVEN P
861-1805
7701 DELA CRUZ SALVADORE •
861-3541
7705 MAY JOHN •
7706 STOLTZ THOS R • 924-5267
7709 JENKINS RONALD D •
7710 HOLDERFIELD LARRY G •
921-9264
7714 HICKMAN HARRY
7715 NELSON LOUIS H • 923-5263
7718 SMITH PAUL • 923-4246
7719 CUDNEY RUTH • 924-5613
7800 HESS ROY E • 861-5822
7801 DUNN MICHL W 923-8746
7804 VOSPETTE ANDRE L •
7805 SMITH CLARENCE • 861-3152
7809 BIRD ALBERT M • 921-2488
7812 ELROD JOHN C • 921-9477
7815 COTTEN CLIFFORD C •
924-6720
7816 SULLIVAN ROBT L • 921-4618

TP	Adjoining	Source
-	✓	R. L. Polk Co.

E 47TH ST TER 1970

47TH ST TER E—Contd

7819 NICHOLAS GERALDINE L MRS ●
924-7043
7900 MORGAN THELWOOD ● 923-0319
7901 HOWELL LEE L ● 861-0820
7904 BOLLES CARL ● 861-4490
7905 GIBBS ADDA M ● 861-0310
7908 CAYTON JOHN L ● 861-6562
7909 JOHNSON TOM ● 861-8445
7912 EDWARDS JOE ● 861-6710
7915 JENNINGS MICHAEL A
923-9728
7916 CLAWSON THED E ● 861-4570
7919 MARTINEZ FRANK 923-6408
8300 ARNOLD SETH C ● 924-6928
8301 PEARSON RALPH S ● 924-3244
8304 BOYNTON EUGENE B ●
8305 BROWN BERNICE MRS ●
8308 VACANT
8309 HUTCHINSON D H MRS
923-8007
8400 JARMAN DOUG
8401 EVANS CHARLES P ● 921-9674
8404 ALDERTON HARVEY ● 923-1622
8405 HENDRICKS HENRY M ●
921-2493
8408 BUCKNER ROY V ● 861-4745
8409 LESLIE RONALD ●
---WALLACE AV INTERSECTS
8500 BROWN RICHD M ● 923-7557
8501 BENNETT CHARLES E ●
861-5407
8502 GUERRERO AUGUSTINE ●
921-4022
8505 MC HENRY STANLEY ●
8507 MORITZ CARL F ●
8508 SIMS JOHN L ●
8511 MOORE FRANCIS ● 861-2475
8512 VACANT
8515 WHITE VOLNEY B ● 921-7942
8516 CUNNINGHAM FRANK E ●
241
---ZIP CODE 64133
---STERLING AV INTERSECTS
11200 DUGAN DARREL L 353-7327
11204 COX TRACY E ● 353-1393
11207 MC MAHON MICHL G ●
11208 LEMBERGER JOHN O ●
353-1209
11211 RENNER F IRENE MRS ●
11212 BELLMAN NAOMI MRS ●
356-5335
11215 KERBY JOHN E JR ●
356-0409
11216 MALCHOW ALFRED A ●
353-8810
11220 WEATHERBIE ROBERT ●
356-6071
11224 HARTMAN H GEO ● 353-4434
11225 HARPER ROBT A 353-4421
---CLAREMONT AV INTERSECTS
---BLUE RIDGE BLVD INTERSECTS
12003 PILEGGI ANTONIO ●
353-8573
12005 COLBERT JOHN H ● 353-0598
12007 PRICE CLIFFORD C ●
353-3224

362

47TH ST TER NE

---ZIP CODE 64116
1101 CLAY-PLATTE YOUNG MEN'S
CHRISTIAN ASSN 453-6600
375
---ZIP CODE 64117
2600 BASE LARRY L ● 454-0297
2603 ATKINS BERTHA H MRS ●
452-6551
2606 ESTEP PHILLIP J ● 452-2471
2607 LOWE VICTOR E JR ●
453-1880
2610 LOWE DELMOND A ●
2615 RICHARDS JAMES R ●
452-3698
2616 DURLACHER DAVID F ●
452-3393
2619 CRANE BILL J ● 452-6449
2622 CLARK JAMES O ● 452-6556
2700 SPECK WALTER P ● 453-4760
2704 DUFFY JOSEPH L ● 452-8031
2722 WHITEAKER E HAROLD ●
453-4395
2727 FARRIS EARL L ● 452-9125
2804 AULD EDW A ●
2807 HAMMOND EARLE
2810 FANTIN DELIA MRS ●
452-5215
2814 POSSON CHARLES E ●
453-3889
2820 CLEVENGER W K ●
2824 MYERS ROY D 454-0776
2828 ROGERS ALBERT L ● 452-0777
2832 STEWART ALFRED J ●
454-7742
3201 CANNOVA SAML J ● 452-3201
3206 LATONA VICTOR ●
3207 ROOK CHARLES W ● 453-2645
3212 SHOUR HERBERT H ● 452-5622
3213 WHITE L E 452-0373
3218 CANNOVA CARL ● 454-3142
3219 NORDINE GEO 452-0460
3224 DE GHELDER JAMES J ●
453-4122
3225 CARRIKER GLENN A ●
454-1700
3231 WITHROW C RAY ● 453-0748
3237 GRAY ROBT J ● 452-7175
374
3500 AZZARELLI JOSEPH ●
452-4928
3501 TINSLEY RAYMOND E ●
453-7933
3504 SCHRAEDER F VIRGINIA MRS ●
453-5554
3505 STASI CATH H MRS ●
452-7756
3506 WASSER OTHA M MRS ●
454-1374
3507 LYCAN ERNEST E ●
3510 LANG LESTER W ● 452-1116
3511 VOGELBAUGH KENNETH E ●
452-6523
3512 SALUCCI ANTHONY C ●
3513 SMITH CLIFFORD G ●
3516 GLATT JOHN E ● 453-0809
3517 WILLIAMS CHARLES R ●
452-2320
3518 KAUL KENNETH E ●
3520 BLAIR JACK P ● 453-5802
3521 NESTER MARGUERITE E MRS ●
453-3411
3525 CLOUGH EVERETT V ●
452-8485
3600 FREDERICK JOSEPH W ●
454-3186
3601 DAHIL ED ●
3609 EVANS EARL V ● 453-4518
3610 REGAN THOS J ● 452-5138
3616 CARR GENE A ● 454-7264
3619 SHULL JAMES W ● 453-5278
3622 ERBACHER PHILIP J ●
452-9389
3625 LA ROCCA FRANK ●
3628 LC PORTO FRANK ● 452-2186
3631 NO RETURN
3634 NUGENT PATK H ●
3637 RUSSO MARIO ● 453-5349
3640 JACKSON RICHD D ● 452-0141
3700 SIGLER WILLIAM E ●
452-8234
3701 EDDINGTON JAMES M ●
453-1653
3707 SHAW ROBT E ● 453-3896
3708 RUSSO VITO S ● 453-6746
3713 PERNICE RUDOLPH J ●
453-5840
3714 RHODES GERALD L ● 453-0515
3719 KATZENBERGER ROBT H ●
453-3377
3720 CARROLL JUSTUS G ●
452-6003
333
---N ELMWOOD AV INTERSECTS
4600 FIELD MAX L ● 452-4507
4603 BODE LINDLEY W JR ●
453-1238
4607 WHITFILL WM ● 452-9375
4610 STAFFORD ROY C ●
4612 DIGGS GLENN L ● 454-4963
4613 JONES EARL E ● 452-0348
4617 KLEPAC JOHN ● 452-0716
4620 RUFFIER DELBERT R
4621 ATWELL STEPHEN C ●
452-2081
4700 HAVENER WALTER L ●
452-1432
4703 BROWN LARRY H ● 453-1726
4707 HART NORMAN D 453-4513
4708 WAUGH WALTER L ●
4711 KIMBALL DANL L ●
4712 SMITH LEON S ● 452-5870
4716 NO RETURN
4717 HUBBELL HERBERT E ●
452-9032
4721 LOOS LYNN E ● 452-2762
4800 FROST VELMA E ● 453-1716
4801 WYATT ROY 454-5353
4805 BECK JESSIE MRS ● 454-1704
4810 GEAMES RICHD H
4811 MOELLER JOHN R 453-7366
4815 SCOTT DALE 453-3153
4818 HARRIS MILO ● 452-8742
4819 HARRIS GRACE C MRS ●
453-3063
4830 YOCHIM JERRY E ● 452-5338
4826 MORFITT GARY W ● 452-4041
380
5102 HUNT KENNETH E
5103 RALLS JOSEPH JR 454-4771
5109 CHEVALIER RICHD ●
5120 FOSTER ROBT L 454-4659
5121 KING EARL L ● 453-3216
5200 VANSKIKE HARRY A ●
455-5292
5220 WHITE WM A ● 453-6073

68

48TH ST E -FROM 4800 GRAND AV
EAST

---ZIP CODE 64112
212 MEDLIN DEANNA 931-8367
214 SMOKOROWSKI PETE E ●
531-8497
216 GARTRELL MARGT H MRS ●
561-4809
218 KOCH KENNETH F 561-5802
220 HOFFMAN HERMAN ● 531-1997
---MC GEE ST INTERSECTS
301 MIDWAY FOOD MARKET 561-6418
301½ MEINERS WALTER J JR
753-6826
302 MIRROR PLAZA APARTMENTS
CHANEY LAWRENCE
KOOP GENE M 931-4451
303 RICHMOND J D 531-3837
MURDOCK MARSHA
304 FUGATE KEITH 931-9904
DICKSON R B
305 JULIANS O B ●
306 VACANT
308 GAINEY PATRICK M 753-0627
309 BYBEE OLLIE L MRS ●
753-4124
310 LANGE ROBERT
PERRY JACK H
311 VACANT
312 VACANT
315 EAST LAKE APARTMENTS
101 BARDWELL SHARON
102 GRUETGE ROBERT K
103 CRAFT MICHELLE
104 CHENEY HAROLD D
753-0613
201 MOLITOC DAVID
202 ANDERSON RICHD
203 CHAMBERS ISABEL E MRS
204 GKERHART BOB
302 MINAN RUTH
303 HANSON H K
304 VACANT
316 APARTMENTS
1 KING RAY 561-7849
3 WATTS ARLIE
4 MASSMAN ZETTA T MRS
561-4384
5 HUNTER RUTH F 753-7059
6 STEWART LUCY MRS 931-7916
317 EAST LAKE APARTMENTS
301 BUTEL HANK M 753-2818
318 APARTMENTS
1 CORNELIUS STEVE
2 SHIFRIN EDITH
3 ALLEN G D
4 VACANT
5 SCOTT LEAH 531-8929
6 ST-WAH YUM
319 EAST LAKE APARTMENTS
BSMT HIERONYMUS RICHARD
361-3214
321 APARTMENTS
101 ROY MICHL
103 CHOPAK WILLIAM
104 KEITH JOHN
201 JONES INEZ
203 VACANT
204 WEAVER LAURA MRS
931-5057
303 HOMAN S
304 CONCAD BOB
EAST LAKE APARTMENTS
102 SEACORD PENNY
201 VACANT
202 CALLAHAN V
301 BUNDY LAURA L
302 BAUM VICKI
---ZIP CODE 64110
---OAK ST INTERSECTS
---LOCUST ST INTERSECTS
---ROCKHILL RD INTERSECTS
---HOLMES ST INTERSECTS
701 KREAMER JAMES 561-2811
701½ TAUPE AGNES
703 ROBERTS JULIA A MRS
753-7858
704 GARDNER HARRY D ● 561-4386
705 HUNTER ROSEMARIE
707 EDMONDSON C EDDIE 931-7281
SETTLE DAVID
708 HALSEY EARL M ●
712 PALMER STANLEY O ● 931-8069
715 HOGG JAMES E ● 931-0313
716 AUSTIN WALTER S ● 561-5068
719 PORTER ALVA L ● 561-0172
720 PATTERSON NELLIE A MRS ●
721 VACANT
---CHARLOTTE ST INTERSECTS
800 HUND SACHEN 931-9180
GONDOR CAROL R MRS 561-7697
802 HWANG SHANG 931-9372
805 BYRNE PATK ● 931-0274
---ZIP CODE 64119
808 LINDLEY CHARLES E
809 VACANT
811 LAWRENCE HARRIET 531-9179
812 DEFACLO FRANK 561-6142
BSMT VACANT
815 HARTFORD ARMS APARTMENTS
BSMT PERREY ENA
APARTMENTS
1 BROWNING BETTY
2 HUTCHIN CLARA M 561-5614
3 SPRAGUE MILDRED M
4 BALDING ESTELLA M MRS
561-8114
5 GLAZER BEN
6 VOGT MICHAEL
20 ALBERTY JOHN
21 HENDERSON JACK
22 SMITH NORMAN J
23 COLLINS CHARLOTTE M MRS
931-4458
24 VACANT
25 CAPREFOLI PAUL J
26 ARNOLD ROBERT
27 SCHULTZ ERNEST 753-1910
30 BAKER BRUCE
31 KELLY SHARON
32 KEENEN FRANCES E MRS
561-0978
33 SITES MARGT P 531-9487
34 CASTRO CESAR
35 VACANT
36 HARKER F RAE
37 DOOLITTLE JUDY
STREET CONTINUED
816 MAISCH EMMA D ● 561-2065
CARTER EDWARD L
819 HARTFORD APARTMENTS
1 PHEGLEY JACK L 931-6897
2 MARTIN WM
3 BRAKEMER LARRY
4 ANDERSON TONY
5 PIERSON JOHN R
6 DAVIS SUE
7 VACANT
8 BEADSHORE DENNIS
9 ENGLISH JAY 531-8852
10 CALLISON JOHN W 931-6625
11 KNOWLES VIVIAN
12 HOOPES JEFFERY
14 WENIGER KATHRYN
15 PATRICK GARY
16 BITTRICH VINCIENT
17 MC KINNEY MORSE
18 JAMES M
19 HOWERTON P V
20 SUTER CYNTHIA
21 LAURENCE MARVIN
22 KILLINGSHORT JANET
23 NOBEL CHARLES F
24 VACANT
25 REIGER ROBERT
26 TISSERLAND J BERT
27 SANDIDGE TROY L
23 VACANT
29 CALLISON JAMES
30 HAMMONTREE MARIE M MRS
531-6520
31 HILLHOUSE EDW J
---CAMPBELL ST INTERSECTS
820 MANUEL JOHN
901 PULLEY BROS INC WHOL
FLORISTS 931-1312
907 TRAH LYDIA MRS ● 531-7787
909 BAKER WALTER G
909½ HUNTER STEVEN N 931-9860
911 HAMPSHIRE MARY
FOSTER SHIRLEY
BSMT POWERS DALE
912 MIDSTATE WHOLESALE 931-3211
913 WALSH THOMAS D
914 CUSTOM CAMPER CONVERSION
915 BIRD GUSTAVO
916 MIDDLETON APARTMENTS
101 CLATANOFF DOROTHY
531-6420
102 BOLANDER ALLEN
103 HOOVER RICHD
104 CLARK DORCAS
201 SHOCKLEE T
202 VACANT
203 JOHNSON SIGFRIED
753-4634
204 WALLACE RUBY
205 ARRAS GENE
STREET CONTINUED
917 R N F STEEL CO JUNK
753-6917
HARRISON EVELYN MRS ●
753-6917
918 HOOVER RICHD L 931-2359
SANDERS FRANCES 561-5211
920 SCOTT JOHN
922 STORE THE BOOKS & RECORDS
RETAIL 753-6076
922½ DAVIS PEGGY
---HARRISON ST INTERSECTS
1000 SECURITY SAFE SERVICE INC
561-8000
1002 WILLIAMS DICK JEWELRY
561-3223
1004 ROCKHILL BAR 753-9130
1006 HEMPFLING PLUMBING CO
931-9699
1008 LEON'S G & R BODY SHOP
531-8078
1015 VACANT
1016 CEBIS CORP MFRS AGTS
561-0350
1018 C & S DRILLING CORP
561-0350
1020 APARTMENTS
1 VACANT
2 VACANT
3 VACANT
---TROOST AV INTERSECTS
94
1122 U M AT K C UNIT OFC
132
---(NOT OPEN BET FLORA AV
---AND WOODLAND AV)
---WOODLAND AV INTERSECTS
---ZIP CODE 64130
1800 MISHLER ERNEST C ●
864-3011
1801 BAKER SELENA M MRS
924-3312
1803 FARRIS GEORGE H ● 921-4508
1804 HUNTER WILLIE
1805 STREIFF WM E 921-9245
1806 SUMMERS DOSSIE
1807 VATHCART AUSTIN
1810 DUKES BESSIE MAE 923-4847
1811 WRIGHT WILLY F 921-8320
1814 JOHNSON WM ●
1821 VACANT
1824 VACANT
1826 WARD JULIUS I 861-3722
1827 WILLIAMS FLOYD J
1827½ VACANT
1828 VACANT
1830 VACANT
1831 LITTLE WALTER ● 923-8955
1834 MC GEE LEWIS ● 924-5024
1836 AUSTIN RAY D ● 861-0599
1838 COOPER LARRY B 921-4169
1844 PRECIPHS JOHN L REV ●
861-0971
1845 LOLLIS CARL 861-3696
1847 ROOKS JOYCE M MRS ●
921-9235
---EUCLID AV INTERSECTS
2000 GARDNER JOHN
2008 PYATTE ARNOLD E ● 923-3005
2011 DUCHARDT FREDK A IND
CONSULTANT ● 861-8222
DUCHARDT BERTHA MRS
924-1364
2016 FOX LOUIS J ● 861-1624
2020 BIRT GENE
BSMT VACANT
2021 BROWN ARDYTHE
2022 VACANT
2025 VACANT
2026 FORD KENNETH R ● 861-9237
BSMT VACANT
2029 VACANT
2036 SIMPSON CHESTER W ●
924-6527
2037 SILVA MARIA MRS ● 861-5779
2040 SMITH ALVIN ● 924-9037
2041 VACANT
2045 VACANT
2046 VACANT
---BROOKLYN AV INTERSECTS
---PARK AV INTERSECTS
2300 FORD LINDA ●
2305 WALCOTT EUG R ●
2308 VACANT
2312 HERRON CLEMON ● 861-7016
2315 VACANT
2317 VACANT
2317½ VACANT
2318 CASHMAN JOHN J ● 923-3820
2320 WHITE JESSE C ● 921-6483
2321 VACANT
2323 JEFFERSON MITTI B MRS ●
861-0263
2331 QUINT JACK K ● 921-2318
2337 CORENCE JAMES W
2339 BELCHER JAMES ●
185
---SPRUCE AV INTERSECTS
---KENSINGTON AV INTERSECTS
---CYPRESS AV INTERSECTS
4502 PEELER LARRY L ● 921-2188
4510 VACANT
4516 VACANT
---ELMWOOD AV INTERSECTS
---LAWN AV INTERSECTS (NOT
---OPEN)
---LISTER AV INTERSECTS (NOT
---OPEN)
242
---ZIP CODE 64129
7600 NORTH WARD F ● 921-6325
7601 LAMB DONALD R ● 861-0511
7605 ROVENSTINE DONALD H ●
924-2163
7606 CHILDERS HARRY H ●
921-4628
7609 LARKINS EARL W ● 921-6457
7610 JACKSON WM ● 923-6356
7614 BARBER JAMES K INT DEC ●
921-2655
7615 SUMMERS ANGELA M MRS ●
861-2365
7618 FRISTOE WM L ● 861-2892
7704 COCHERHAM GRIMBEL R ●
861-1717
7705 TURLEY ROBT ● 923-7773
7710 STRATTON WILLA ●
7711 CHRISWELL JOHN H ●
921-1063
7716 ZIMMERMAN CHARLES B ●
861-2937
7717 GIVENS JAMES H ●

TP	Adjoining	Source
-	✓	R. L. Polk Co.

E 48TH ST 1970

48TH ST E—Contd

7800 MC CLAIN EARL ● 861-6613
7801 SEATON ELBERT ● 923-2179
7806 MC LUCAS JACK ●
7807 BAYLOR DALE E ● 861-3020
7812 WILSON ROBT C ● 924-1678
7813 JOYCE MARTIN J ● 924-8204
7816 WOODARD J E ● 924-1137
7817 CRETEL ROLAND H ●
7900 BOYLE DAVID T ●
7901 SANDERS CHARLES R ●
921-3236
7906 ROGERS JOHN J ● 921-4486
7907 YOUNTS LLOYD F
7911 KING IVAN ● 861-4608
7912 GORMAN DAVID L ●
7915 EBERHART HAZEL MRS
7916 NEVES GERALD M ● 923-0215
7919 WILES JACK L ● 861-2808
7920 VEIDICK JAMES F ● 921-1265
241
---ZIP 2CDE 64133
---STERLING AV INTERSECTS
11201 BOLLINGER GEO ● 356-0235
11205 VACANT
11206 DUNCAN LAURENCE A ●
353-4687
11209 SCHROEGER EULALIA A MRS ●
353-8910
11210 POINDEXTER JAMES G ●
353-0248
11214 NEECE MAXINE E MRS ●
353-0139
11215 LASATER GEO D ● 353-0067
11218 SILVIUS MYRON D ●
356-4811
11219 NYSTROM HARRY B ●
353-6865
11223 COOPER JOSEPH R REV
356-8038
11226 WELLAND JOSEPH J ●
353-5348
11227 BOYD A LEE ● 353-1547
11231 ROWE JAMES D JR ●
356-8573
---CLAREMONT AV INTERSECTS
---VERMONT AV INTERSECTS
---NORWOOD AV INTERSECTS
11701 CARROLL C K ● 356-5798
11703 PORTER GLEN W ●
11706 WALKER JOHN P ● 353-4970
11707 PILSL PAUL M ● 353-4814
11714 LILLY LEONARD C ●
356-0652
11800 COSENTINO JEROME J ●
11801 WINBIGLER GLENN P ●
353-5540
11804 MC PHERSON EAVIN M ●
356-2033
11805 MAULDIN R O ● 356-1644
11808 BRAY EARL E ● 353-5682
11809 CARMACK WALTER ● 353-2519
11812 TAYLOR DAVIS D ● 356-3327
---BLUE RIDGE BLVD INTERSECTS
12001 NO RETURN
12002 BUCHHOLTZ HOWARD J ●
356-2813
12003 ERICKSON CARL A ●
353-5602
12004 SHELTON DOUGLAS E ●
356-4859
12005 MOORE CHARLES E ●
356-1661
12006 BROWN H CLYDE ● 353-0278
12007 PEELER JAMES M ● 358-5453
12008 HAMMONTREE DANL C ●
356-1378
12009 CREAGAN CHARLES A ●
353-8523
---WOODSIDE AV INTERSECTS
362

48TH ST NE

---ZIP CODE 64118
2018 BALLARD WM H ●
2104 PICKARD MARY L 453-7463
2104B BLEDSOE TRUDY C
2112 GADD ELMER E ● 452-1793
2117 NORTHGATE JUNIOR HIGH
SCHOOL 453-2250
2120 MC KEEHAN RALPH A ●
452-8504
2128 CUTHBERTSON DAVID D ●
452-8501
2200 DILLINGHAM DAVID M ●
452-8500
2201 WOLFE VELDA MRS ● 452-9622
2214 SHORT LESLIE C ● 452-0533
2215 VACANT
2216 RADER EDGAR L ● 452-6727
2217 HARBISON GEO H ● 453-1695
2226 GADDIS EDNA L MRS 452-7708
2323 WILSTEAD ALICE G MRS ●
452-2457
2325 EVANS CARL L ● 453-2187
2401 HICKS ROBT H ● 452-3432
2405 RUMPF FREDK J ● 453-5078
2409 MILLER RAYMOND L ●
452-0562
2414 BRAY JACK E ● 452-8566
2420 VACANT
2426 BULLIN JOSEPH H ● 452-4520
2432 THOMPSON VICTOR G ●
452-0645
2436 WORTHAM LLOYD G ● 453-4548
2501 GILL CLARENCE H 452-6070
2509 KENT GREGG 454-6154
2515 HOFER HARLEY J 453-3119
374
3405 MIQUELON JOSEPH P ●
452-0361
3408 RICKETTS EARL R ● 452-2255
3409 MILLER PAUL R ● 452-0857
3412 PAYNE DELORA MRS ●
452-1947
3413 BERGLUND LAWRENCE W ●
453-2045
3417 MITCHELL JACK N ● 453-2864
3421 LA ROCCA SALVATORE J ●
453-1281
3426 CHEESEBROUGH JOSEPH P ●
452-6023
3433 GREEN BILLY D ● 452-8965
3501 COUNSELLOR R LEE 454-5459
3508 SEXTON CHARLES E ●
3509 MANLEY WARREN O ● 452-5975
3514 FUSON JACK R ● 454-4033
3515 SAURO PETER F ●
3522 SUNDAL JASPER J ● 453-2641
3523 BOLEWSKI THADDEUS J ●
453-4697
3600 STINE LOUIS H ● 453-4715
3601 ZIMMERMAN JOHN E ●
453-2294
3605 REINHOLD RICHD C ●
453-1631
3606 WIRTH EUG W ● 453-1776
3609 WUNSCH ROBERT E ● 453-6519
3610 ADAMS LUCILLE M MRS ●
453-4482
3618 MILLER EDGAR J ● 453-7578
3619 O'HALLORAN JAMES V ●
453-4631
3624 DUNN ALLAN F ● 453-4758
3625 COMO MARY MRS ● 453-2625
3700 BERGLUND JOHN K ● 452-0595
3709 HENDERSON J ROGER ●
453-1643
3718 BOWER RICHD C ● 453-2049
3719 SNELL HENRY R ● 454-6411
3725 BUTTS RAMON C ● 454-3461
3740 MASKILL DON E MFRS AGT ●
453-3603
3744 SMITH ROBT L 453-5586
333
---N LISTER AV INTERSECTS
4717 MATTHYS MARSHALL ●
452-4443
4800 STRANG CHESTER B ●
453-4800
4805 KLOMP LAMBERT A ● 452-6694
4815 FOERSTER FRED C ● 452-9392
4831 ROBERTS FLOSSIE T MRS
452-7955
380
---N BRIGHTON INTERSECTS
5010 PONTALIAN NELLIE MRS ●
5015 SHARP LOUISE MRS ●
452-6186
5018 GREEN DELOROS L MRS ●
5105 WELSH JERAULD K ● 452-2472
5106 SMITHERMAN HALLIE E JR ●
452-1941
5107 IRELAND C VICTOR ●
452-0137
5108 SWART BEN F ●
5110 DRAPER MILFORD A ●
452-9053
5113 WINTERS TERRY L ● 453-3873
5116 BARNES WM A 453-7683
5119 MC INTIRE WM L ● 453-6686
5120 CARLSON CLARENCE R ●
453-4640
5200 VACANT
5201 FREEMAN DAVID ●
5206 NO RETURN
5212 WELLS RAYMOND ● 453-6493
5213 FRANKLIN IRENE MRS ●
5219 CRAWLEY IRENE L MRS
5221 CAPLES EUGENE & ASSOCIATES
ART ADV 452-6801
CAPLES VERYL L ● 452-6801
5222 SMITH FRANK S ● 452-6182
5308 FOLEY RAYMOND ●
5311 ARCHER DANL F ● 452-3491
5312 SMITH DAVID W ● 453-2917
5314 ISON ANDY A ● 452-3539
5402 KOENEMANN ALTHA MRS ●
452-7211
5406 SMITH EMRO E ● 452-4807
5410 KILGORE C M ● 452-6905
5419 PIERCE CARL F ● 452-9085
---N DRURY INTERSECTS
5500 DOLLINS JOHN A ● 452-2567
5505 BECKWITH EMMA MRS ●
452-9084
5506 MC NALLY KENNETH R ●
453-2857
5517 BLACKWELL CHARLES W ●
453-4560
5518 TUOHEY PATRICIA MRS
453-6638
5520 STUART THOS G ●
5535 COLEMAN CHARLES E ●
452-3116
---N OAKLEY AV INTERSECTS
5611 TOTMAN DONALD R ● 453-4808
5612 GARAMILLO LARRY ●
5615 WAGGENER R PAUL ● 453-4375
5620 VACANT
5700 GASH RAYMOND E ● 452-8830
5710 JOHNSON LARRY K ● 453-3004
5712 FUNK CARROLL E ● 452-0704
5720 FORBES EDW F ● 452-8677
---N TOPPING AV INTERSECTS
---N BELLAIRE AV INTERSECTS
5918 LYONS JAMES E ● 452-6363
---N WHITE BEGINS
6000 WILLIAMS HERBERT R ●
452-5991
6018 BARNES MARGT M MRS ●
452-6802
6201 ISAAK HERMINE MRS ●
452-4794
6526 PORTER NICHOLAS E 452-7284
---FREMONT AV INTERSECTS
---N BENNINGTON AV INTERSECTS
6600 WEST ORVILLE L ● 453-5190
6700 NAJOLIA DOMINIC F ●
452-5331
NORTH HILLS REFRIGERATION
452-5331
6701 BLAKELEY BENJ W ● 452-5863
BLAKELEY'S KENNEL 452-5863
328
---RANDOLPH RD INTERSECTS
6525 MITTENFELNER SIEG
245

48TH ST W -FROM MAIN WEST AND
NORTHWEST

---ZIP CODE 64112
---BALTIMORE AV INTERSECTS
121 SULGRAVE THE APTS 931-2636
A01 HARTMAN IRIS E MRS
531-8564
A02 CONNOR WM T 561-2831
A03 VACANT
A04 NO RETURN
A05 WANKWITZ VAN
101 DUNCAN WM H 931-6339
102 GOSNELL EDWARD
103 MC KENZIE MERCEDIES
753-0455
104 ROWAN GERALD B 753-4095
105 BARTON FLORA
106 CONNOR MARIE MRS
753-8556
107 BRASFIELD MABLE S MRS
931-2636
108 YEO WILMA MRS 753-4092
201 MC CRARY WM H 753-5999
202 EUSHMAN WM J 753-5850
203 BECKER WM J
204 COWAN CORNELA MRS
753-5632
205 VACANT
206 FOX LEWIS A 931-8308
207 HOOLEY ANN S 561-8967
208 WALKER HENRY O
301 COFFMAN E BENJ 753-0758
302 VACANT
303 FITTS J RUSSEL
304 JONES RAY MRS 931-8334
305 BELWOOD JAMES M
306 VACANT
307 SIMPSON MURL MRS
531-1260
308 EPSTEIN HARRY J
931-4469
401 PARK ROY MRS
402 SHANGLER CHARLES HON
403 WHITE LES
404 MOBERLY DOROTHY
405 VACANT
406 VACANT
407 VACANT
408 VACANT
501 GREEN GEO F 753-1994
502 VACANT
503 EVANS TOM L
504 VACANT
505 VACANT
506 VACANT
507 BURNS GREOGRY A
753-2030
508 VACANT
601 VACANT
602 STERN FERDINAND
931-6151
603 VACANT
604 CATLIN I SELDEN
931-1967
605 VACANT
606 VACANT
607 TANNER EDW W 931-7010
608 VACANT
701 VACANT
702 MURPHY J DONALD HON
703 VACANT
704 VACANT
705 VACANT
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708 VACANT
801 VACANT
802 VACANT
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804 VACANT
805 ZIEGLER ISIDOR 561-8869
806 VACANT
807 GREEN MOULTON 561-0481
808 VACANT
901 MAAG JOSEPH M
902 VACANT
903 CLARK DONALD B
904 REYNOLDS H CARL
753-6222
905 VACANT
906 VACANT
907 GRAMLISH J RUSSELL
908 MARCO MARTHA MRS
1001 MACRAE JAMES R
931-7334
1002 MINER PAUL V 753-2222
1003 STILLER HOWARD M
753-7941
1004 RAMSEY J W JR MRS
531-4292
1005 VACANT
1006 VACANT
1007 VACANT
1008 VACANT
1101 VACANT
1102 FOSTER KATHARINE MRS
931-4985
1103 VACANT
1104 WYCKOFF KENNETH
1105 VACANT
1106 BALL JAMES D
1107 VACANT
1108 GIBSON MARIE
1201 VACANT
1202 KANEY CLIFF J 931-6244
1204 FULLERTON WILLIAM B
753-7347
1205 VACANT
1206 FOREMAN C S MRS
931-0549
1207 VACANT
1208 BRADDOCK FRANCES W MRS
753-7948
1401 KENDRICK MARGT A
1402 BITLER OLEN G BUSINESS
INVESTOR 561-5877
1403 VACANT
1404 BITLER OLEN G 561-5877
1405 VACANT
1406 VACANT
1407 VACANT
1408 LOCKMAN E W 531-7878
1501 BEAGLE RAYMOND F JR
931-6364
1502 SCHARTZ HARRY
1503 VACANT
1504 VACANT
1505 VACANT
1506 VACANT
1507 VACANT
1508 BACCHUS R CARL
931-5732
1601-03-05 LYDDON JACK R
753-2727
1602 EISEN HARRY M
1604 VACANT
1606 VACANT
1607 VACANT
1608 NELKIN HENRY G
1701 NO RETURN
1702 SECK LEON B 753-3235
1703 WIGGS IRVING
1704 BURKE JAMES E
1705 VACANT
1706 VACANT
1707 VACANT
1708 MC COY RAY N 753-2107
1801 VACANT
1802 MORRISON JOHN A
1803 MEHL ERNEST F 931-4736
1804 VACANT
1805 BULKLEY MARIANNE MRS
1806 BARRY WM B 931-2123
1903 RILEY HELEN
1904 LOTH WM S
1905 GLUCK MAX
1906 KELCE GLADYS MRS
753-1019
2001 VACANT
2002 MENDELSON AL 531-9279
2003 HOFFMAN MORRIS M
753-6519
2004 VACANT
2005 VACANT
2006 GUSTIN HESTER MRS
561-4130
2101 VACANT
2102 BUETTNER C M 753-6292
2103 BENJIMAN JEAN MRS
753-1015
2104 TOWNSEND WM U
2105 VACANT
2106 DENEBEIN NATHL
531-0059
---WARD PKWY INTERSECTS
221 REGENCY HOUSE APARTMENTS
931-1300
101 RECEIVING ROOM OFFICE
931-1300
102 REGENCY HOUSE APARTMENT
OFC 931-1300
104 HAGEMAN ANITA
106 COFFRIN W E
108 SNYDER JACK L MFR AGT
753-3014
202 WARD HELEN MRS 931-7483
204 MADISON PALMER B
753-6084
206 COOK H W MRS 531-2743
208 FIRTH RICHD E 561-0835
302 SIDLEY A C 561-0618
304 HOLLAND RALPH MRS
753-5251
306 WYSONG EMMET W 531-8534
308 FELS ARTH 931-2229
402 CUMMINGS ALICE 531-1066
404 FRAHER PHILIP J
753-6344
406 BROWNE EDW J
408 PHELPS E W MRS 931-1341
501 CRISSMAN HELEN 753-7886
502 YOUNG CHARLES G JR
931-3935
503 WIGGS IRVING
504 NO RETURN
505 BAKER ESTHER K 531-8192
506 GOUDIE FANNIE K MRS
531-8227
507 MAYERBERG GERTRUDE MRS
931-3621
508 DAVIS C PHIL 753-1238
601 WIEDEMAN WALTER A
753-4303
602 BROWN BERTHA MRS
931-4198
603 EISENMAN ELEANOR MRS
931-8811
604 DIETRICK LOTTIE MRS
753-2250
605 WARD DANL R 753-0489
606 JACKSON DAVIS K
753-6699
607 FROESCHL MARY MRS
753-1536
701 VACANT
702 SPRINGE WALTER 931-8011
703 REINER ERICH B 531-4221
704 SHAUGHNESSY JOSEPH B
931-6498
705 MC TAGGART NORMA MRS
931-6345
706 MAC GOWAN ROSE B MRS
561-8578
707 KRAKAUER BERNICE A MRS
753-2731
708 KAYSING FRED H MRS
801 CLARKSON MARY L MRS
561-8498
802 PEISER ERNEST E
531-9446
803 LAWRENCE THOS H
561-9045
804 BEEBEE GLADYS I MRS
561-2574
805 BALTIS MARGT MRS
753-4766
806 CURRY R DOUGLAS
753-3570
807 LEUENBERGER VI MRS
753-5789
808 DENEBEIM SHIRLEY MRS
753-0574
901 STERN MARIAN F MRS
753-1464
902 BELLEMERE MARY B MRS
531-2081
903 RAILEY JAMES A 561-9227
904 TOW CLARENCE W 753-3755
905 JONES FLOYD R 561-9517
906 HAKAN BERTHA MRS
931-9304
907 WEAVER KATH B MRS
931-8632
908 DAVIDSON GRACE M MRS
1001 DAVIDSON ROSALIND MRS
531-7389
1002 VAN CAMPEN AVERY G
561-2543
1003 HOPPER JUSTINE
753-5562
1004 TOURTELLOT GEO
753-6389
1005 LAZOROW SAML A
531-7795
1006 HANEY LILLIAN
1007 ALDERMAN DALLAS R
753-3005
1008 UNGER HAROLD D
753-3418
1101 BEESON RENA S 753-4051
1102 WOODBURY JAMES B
931-5297
1103 MATCHETTE PAUL L
931-8866
1104 BIGHAM ROBT B MRS
561-9115
1105 WOODRUFF LEE R
931-8021
1106 GORDAN FRANCES MRS
753-0645
1107 OPPENHEIMER VIVIAN MRS
561-2044
1108 RUDY VERNON F 561-3678

TP	Adjoining	Source
-	✓	R. L. Polk Co.

PALMER DR 1970

PALMER AV N—Contd

5221 MC KEE MICHEAL A ●
5224 WALTERS WM C ● 453-2878
5225 PACE GLEN R ● 453-7901
5228 PHILIPPS MALVIN A JR ●
453-2119
5229 GREEN ROY E ● 453-1556
5232 CHISAM WM K JR ●
5233 BANKSTON DENNIS G ●
452-2552
5236 DIXON THOMAS ●
5237 KOGER DENNIS A ● 453-7584
5240 MASON RAYMOND J ● 453-5284
5300 KNIGHT THOS O ● 453-0211
5301 ELKINS WM ●
5306 MOORE CLIFTON ● 453-1172
5309 HOUSE FLOYD A ● 454-0543
5310 CROCKER HARVEY F JR ●
453-3355
5314 SCOTT SIDNEY E REV ●
452-4071
5315 RACCUGLIA DOMINIC S ●
452-9025
5318 ROWINE PATRICK J ●
452-9044
5321 ROGERS WILLARD W
5322 GILPIN LOGAN C ● 453-5515
5328 PAINTER CYRUS I E ●
452-9022
5329 SLAGLE VICTOR G ● 453-0017
5335 ETHERIDGE STANLEY J
453-7929
5336 HALL RICHD ●
5339 MC CALLISTER LELAND J JR ●
453-4530
5342 NORWAT JERRY ● 454-3615
5347 CUSTER JAMES T ●
5348 SMITH DONALD ●
5353 RENFRO JOHN A ●
5354 KINGSOLVER MORRIS V ●
452-9424
5358 JONES PAUL K ●
5359 NEIDERLAND RONALD H
5364 SUMSTINE HAROLD E 454-2705
5365 LICATA SAML P ● 452-8699
5368 HAWVER RICHD K ● 454-0833
5369 KENNEDY MARY LOU ●
453-6978
5374 WILLIAMS HAROLD M ●
5375 MAJORS JAMES E ● 452-9278
5379 WALZ NICHOLAS F ● 452-5180
5380 JONES FRANK M ● 452-0846
5383 CRAIN JERRY W ●
5384 GAINES MELVIN M ● 454-2456
5388 PALMISANO ANTHONY J ●
454-3751
5390 WITTE CONRAD G ● 454-2573

242

PALMER DR -FROM 4731 OZARK RD SOUTH

---ZIP CODE 64129
4733 CLEARY ROBT J ● 861-8485
4800 GARRISON O A ● 923-7758
TEEL OLLIE MRS 923-4744
4809 CHANDLER LAWRENCE ●
921-6779
5100 NICHOLS JOHN L ● 923-1632
5101 JACKSON JAMES ● 921-2766
5106 DUMAS HENRY E ● 861-7696
5109 VAN VEEN NORMA ● 924-8565
5110 ALLEN RALPH ● 923-7819
5114 HENDERSON MORRIS W ●
921-0311
5117 STANGL PATRICK J T ●
5118 ELLIS O K 923-7320
5122 WHITE MILTON J ● 924-5755
5125 TALBOT KAREN MRS ●
861-6245
5126 LAWRENCE ALICE J MRS ●
923-9499
5130 HOUGH ROLLAND J ● 924-3311
5131 MILLER OLIVER W ● 861-4754
5134 GLASSINGER LEO A JR ●
921-3055
5135 KISSEE JOHN A ● 923-5673
5138 CONARD ROBT ●
5139 GANTT PHILIP T ● 923-5764
5142 GALBRAITH JIMMIE L ●
924-4610
5143 HEDRICK CHARLES W ●
861-1082
5147 SCHOWENGERDT C E ●
923-3861
5148 MURRAY DONALD E ● 924-6424
5151 LE VOTA ANTHONY C ●
923-3994
5154 FOSTER SUE C MRS ●
861-7762
5155 WHEELDON ROBT ●
5157 HARBERT JAMES E ● 921-9500
5159 SULLIVAN RALPH F ●
5160 CLARK LLOYD E ● 924-5279
5161 WISSINGER JERRY F ●
5163 EVE FRANK W ● 923-4129
5164 BROCKMAN RONALD E 861-7448
5165 REID CARROL D ● 921-1712
5168 BROOKS RONALD ● 924-8270
5169 STARK ROBERT T 921-0842
5172 PIERCE FOREST L ●
5173 SHELTON LEO E ● 921-4832
5177 SANDERS BOBBIE G ●
923-3786
5200 STEPHENS KENNETH J ●
923-9591
5201 WILLIAMS ROY O ● 923-1396
5205 BOUGHER CARL E ● 923-1428
5206 MC KINNEY ROBT H ●
923-0015
5209 FARMER CLARENCE T ●
921-0436
5210 BURTON JERRY ● 923-4009

326

5612 MORGASON LEROY ● 861-4589
5618 ROSE ARTH L ● 921-8172
5619 PEARSON JOSEPH W ●
924-2280
5624 PEARSON ELVIN B ● 923-4496
5625 JACKSON JIMMIE W ●
923-2128

238

PALMER ST -FROM 7800 US HWY 40 SOUTH

---ZIP CODE 64129
---E 33D INTERSECTS
3305 GARNER ARDIS MRS ●
924-7082
3307 KALEBAUGH TROSTLE
3309 MOTLEY LENA M MRS ●
923-7680
3310 LITTLE ARTHUR ● 924-8353
3311 JORDON WM ●
3313 CHRISTOPHER RAYMOND
---E 33D STREET TER INTERSECTS
3315 PARSON CARLOS G ●
3317 LING ROSCOE ●
3319 GOTH EHRLE F ● 921-9076
3328 WILLIAMS EDW ● 921-5653
3330 MILLER MAX
3332 THEESFIELD CHARLENE MRS ●
3334 SURFACE ARTH F ● 921-1390
3336 CORNWELL GORMAN ●
3338 RICE RAMONA MRS ● 924-8065
3340 NEWTON ROBT I ● 921-6442
3342 GORMAN JOHN 921-8672
3344 VACANT
---E 34TH ENDS
3431 BENNETT J C ●
3432 MURRAY JAMES A ●
3433 STEVENSON LEE ●
3434 CORKINS ORLANDO ● 924-1770
3435 BRYANT WILBUR ● 923-6458
3436 ABRAHAMS GERALD B ●
861-1940
3437 FREEMAN DAVID H ●
3438 RAYBOURN JOHN R ● 921-4827
3440 BISBEE ROBT
3442 HANEY VIRGINIA L MRS ●
921-1022
---(NOT OPEN BET S 34TH AND
---S 35TH)
3501 WALL LARRY
3502 CROISANT JESSE ●
3503 DAVIS ROBT ● 861-7690
3504 GRIER RONALD
3505 DAMSKE CLARA ●
3506 NEIGHBORS LANNA MRS
3507 WATSON RICHARD ●
3508 VACANT
3509 FERGUSON C L
3510 MERRIOTT CHARLES P ●
923-8667
3511 JARMAN JONNY W ● 923-9139
3512 WALKENSHAW DELORES MRS ●
861-7789
3514 DEMONEY H E

238

PALMER STREET TER -FROM 1 BLK EAST OF E 35TH EAST

---ZIP CODE 64129
---E 33D INTERSECTS
3306 TROXELL TERRY
3308 SADOWSKI WALTER J ●
921-4559
3310 ROSE HARLEY H ● 861-2416
3312 VACANT
3314 FRANK SHELBY G ●
3316 WRIGHT DAYTON ●
3318 BYERS LEE ●
3320 CALLAN RICHD B ●
3330 VANDERWOOD JOHN L ●
3417 BOWEN SKIP ●
3419 WILLIAMS JONNIE ●
3421 PAULK JAMES A 861-6035
3422 DANHOUSER DAN ● 921-7254
3423 VACANT
3424 DENTON LARRY ● 861-4825
3425 RILEY LARRY ● 923-8125
3426 THEISEN JAMES E ● 861-7876
3427 WILLIAMS BETTY ●
3428 HALE MARY MRS ● 923-4633
3429 THOMAS JOHN ●
3430 GOOD FAYE MRS ●
3431 PARKER LOGAN JR ●
3432 EMMETT DENNIS ● 861-5626
3433 HENDERSON ROBERT ●
921-6101
3434 COREY VIOLA M MRS ●
924-0769
3435 KUGLER CLAIRE ●
3436 DAGETT MARY ●
3437 HOLT WILLIAM ●
3438 ANDERSON OBERT L ●
924-4016
3439 REEVES LO ANNE ●
3441 MAYBERRY ALFRED ●
3443 HUNT WILLIAM ●
---E 35TH INTERSECTS
3500 CATHREN EDW ● 924-4473
3501 VAN WINKLE ROBT W ●
861-2053
3502 RIETNAUER MARY ●
3503 SELECMAN J R ● 861-0824
3504 VACANT
3505 TAYLOR G E ● 861-7787
3506 MC BEE JOHN ● 861-3960
3507 JOHNSON CHARLES E ●
924-6815
3508 HAMILTON DAVID L ●
3509 COOPER ROBT ●
3510 REED GERALD W ●
3511 DAVIS LUKE B ● 923-6242
3513 MACOMBER CHARLES A ●

220

PALOMA ST -FROM OPPOSITE 3038 DRURY AV EAST

---ZIP CODE 64128
5500 AMES ASA H JR ● 921-0529
5501 ALBAUER HERMAN F ●
921-9020
5505 MULNIX WM H ● 924-3487
5506 KOELLING IRVIN E ●
5508 VACANT
5510 SHICK J N
5515 BOND FRED ● 921-5508
---OAKLEY AV INTERSECTS
5600 BROADWAY JERRY L 861-9243
5601 MITCH'S MOVING & STORAGE
861-2145
MITCHELL ERNEST B ●
861-2145
5605 OSWALD MARIE 923-0807
5606 MILLER GEO F REV ●
921-1838
5608 KIPPER RAYMOND A ●
923-8470
5609 ALFORD WALTER ● 921-0834
5611 LEWIS ETHEL
5612 STUDYVIN THOS R ● 861-2548
5615 BADGER MAURICE ● 921-1820
5619 WILEY DURWARD M ● 924-7540
5621 WOODWARD ROBT C JR ●
924-8280
WOODWARD R C CONSTRUCTION
CO 924-8280
5624 WILPER HAROLD E ●
5625 RIGGS EMMETT ●
5627 FRANCIS JACK ●
5633 VACANT
5636 EVANS LEON
5640 FORD RONALD G 861-7992
5641 CUNNINGHAM DONALD D ●
924-6334
5714 BISBEE DONNIE D ● 924-3912
---TOPPING AV INTERSECTS

120

PARADE THE -FROM PASEO TO WOODLAND AV FROM TRUMAN RD TO E 18TH ST

---ZIP CODE 64106

152

PARK AV -FROM 2300 ST JOHN AV SOUTH

---ZIP CODE 64124
101 PENNACCHIO JOSEPH R ●
483-6417
107 NELSON CARL E ● 241-3588
109 HON CHRIS L ● 241-3573
110 BALISTRERI ANGELO ●
421-5654
111 HACKETT ROBT D ● 483-8540
113 BRANCHINO ANNA MRS ●
241-0291
114 MISTRETTA PASCALE ●
471-7097
2ND FL VITALE CARL
115 SCHMILL MARY H MRS 241-1161
2ND FL TROMBINO SALVATORE
483-8935
1ST FL NO RETURN
2D FL MANCUSO PAUL JR
241-0608
119 TAYLOR HARRY C ● 241-5556
120 VENTO JENNIE ● 471-2959
121 PINKSTON ANNA E 241-5472
122 VACANT
124 LA FRANCA TOM 221-2146
126 VACANT
VACANT
135 BATTAGLIA JOSEPH A ●
231-0070
---PENDLETON AV INTERSECTS
203 FORTE GRACE M MRS ●
231-2314
PERSELL PATK R 231-7191
205 ANDREWS FRANK L ● 241-8721
207 MEDINA KANUTO R ● 231-1444
208 IMPERIALE ANNA MRS ●
471-0182
IMPERIALE VINCENT 421-7867
IMPERIALE VIRGINIA 471-0182
209 GIGLIO SALVATORE ● 483-0736
212 BERRIGLIA NADINE ● 471-2663
FONTANA SAM R 221-7186
213 WELCH WARREN W ● 231-3681
217 BALESTRERI ANTHONY L ●
241-2266
WIGINGTON LEWIS R 241-0658
221 GIAMALVA VIRGINIA MRS
483-8214
225 BATTLE CLARENCE ● 241-3284
WHEELER WM
229 VACANT
BATTAGLIA TONY 241-0236
---LEXINGTON AV BEGINS
---MINNIE INTERSECTS
313 D'ANGELO JOE ● 231-7078
314 SPITALERI IDA MRS ●
241-5108
316 GIUNTA ROSE MRS 241-3743
BARBA RICHD 231-3004
319 SANSONE FRANK 483-3481
321 MC COY WM 231-8158
323 ARMATO SAM ● 483-3751
324 SCARCELLO ANTHONY G BLDG
CONTRACTOR 483-0565
324A PERNICIARO JOSEPH 241-0800
325 MISTRETTA ROSE MRS ●
241-8160
328 BATTAGLIA FRANK CONTR
PLASTERER ● 231-4868
330 BERTUGLIA NICHOLAS ●
231-6546
334 ZACCOGNINO LORENZA MRS ●
VITORINA ROSALINE MRS
336 D'ARRO LOUIS ● 231-4330
338 TARANTINO SAML S 483-0490
340 TARANTINO CONGETTA MRS ●
241-8334
---ELMA ST INTERSECTS
401 VACANT
403 AGRUSA NICK ● 231-5230
408 TUSA PIETRO ● 421-0992
410 BOUL BERNARD 474-8328
SCHELL RICHD 471-4347
413 CUCCHIARA MIKE ● 483-1130
414 LA BRUZZO MAMIE MRS ●
421-8083
416 BARRESI MARY L MRS ●
471-6427
421 VACANT
425 SANTORA MIKE 231-0265
---AMIE INTERSECTS
500 LINDER WM F
503 CASAS JESUS C ● 241-3266
504 CONFORTI RONALD G 842-2179
506 CAVALLARO CARLO 221-5290
2ND FL MC DONALD MATTIE
510 TERRARA DIXIE L MRS ●
2ND FL PHILLIPS PETE
511 LOGIUDICE TONY ● 231-1436
512 PROVENZA AURELIO ● 842-1284
PIRANIO ROSE 421-1035
513 MICELI SAML ● 241-8939
515 ZUCCOTTO SAML ● 231-6377
516 BELGIERE JOSEPH 421-7994
WEIS TERRY
SOLA ROSARIO M 421-7994
517 BELGIERE PHILLIP J ●
241-4630
520 DONNICI ROCCO ● 421-6199
521 LIBERTO JOHN ● 231-3116
524 ANCONA JOHN ● 471-5976
528 BENDETTO CHARLES 471-2927
532 BONEY SHIRLEY
TODARO RUSSI
533 PIRAINO VINCENT ● 231-1151
533½ HOPKINS DENNIS K 241-9218
534 LOPEZ LUIS ●
536 VIDMAR ALBERT P ● 421-5019
BSMT HARRISON ARTHUR 221-2083
542 OXFORD APARTMENTS 221-6834
BSMT HOHMAN MARY MRS
A1NE CARPENTER RAY I
A1NW LUDT WM
A1SE WALKER ANITA
A1SW ELAM WILMA MRS
471-6395
A2NE SAVINO JOHN 842-3381
A2NW RUSK JANICE
A2SE BRESSMAN WM
A2SW WEISBERG JEFFREY
221-2247
A3NE PERRY ROBERT N
A3NW FREID RONALD
A3SE WELTZ MARTIN
A3SW VACANT
B1N BONABHAN SADIE MRS
421-0463
B1S SHUMAKER FRANK
B2N BAIN THOS 222-9379
B2S SOUSLEY AUDREY 421-5792
B3N WRIGHT EDWIN
B3S TURNER PAUL
NE KELLER H S 221-6834
C1NW DODSON ORVILLE
421-5245
C1SW MUNCY DOROTHY L
221-4327
C2NE TODD WM W 221-5698
C2NW FOX RICHD L 221-4198
C2SE LYONS JAMES
C2SW JAMES LYDIA MRS
221-1249
C3NE VACANT
C3NW SPARTI J H
C3SE KNICHEL WANITA
421-4948
C3SW HOPPES MARGE
543 PARK VISTA APARTMENTS
483-8337
102 BRAWLEY HELEN F MRS
483-8337
107 BROWN LAVERN MRS
107 WICKHAM RONALD L
474-9328
108 ROSE JAMES
109 LASHLEY EMMA
110 CARSTEN RON
111 GIPSON RANCE
112 GOODLOE WM
203 BURGESS BONNIE
205 MITCHELL JOSEPH
241-8622
206 VACANT
207 CONFER MARIE MRS
241-9415
208 COLLINS GARY
209 VACANT
210 VACANT
211 GREER RICHD
212 ROACH ALMA MRS
305 LEE FLOYD
306 VACANT
307 RILEY DIANA
308 O'DELL MILDRED I
309 VACANT
310 MITTS CATH
311 PETERSON ROBT
312 PETERSON IRENE E
547 CONFER JOS D 241-9415
549 LEONARD ROSEMARY 241-6056
103 THOMPSON FRANK
104 BURCH OPAL
201 HAYES DON
202 GOOSEY JOLENE
204 MONAN CONNIE
302 STINE MADGE
303 PARKER RICHARD
304 VACANT

150

---INDEPENDENCE BLVD INTERSECTS
---E 6TH INTERSECTS
646 VACANT
BSMT VACANT
648 VACANT
650 RICE THEO ● 471-0438
652 EDDY WM H 421-0284
653 VACANT
665 VACANT
736 APARTMENTS
8A VACANT
8C VACANT
10A VACANT
10B VACANT
10C VACANT
12A VACANT
12C VACANT
13A VACANT
13C VACANT
14A VACANT
14B VACANT
14C VACANT
740 MONTE JOSEPH F INTERIOR DEC
● 421-5643
744 VACANT
---E 8TH INTERSECTS
807 VACANT
808 RENIE ANDREW ● 471-1057
809 VACANT
810 SUTPHIN SARA MRS 421-4549
814 IPPOLITO PALMA MRS ●
817 WALKER VIOLA E MRS ●
483-2605
818 VACANT
BSMT VACANT

151

---ZIP CODE 64127
---E 9TH INTERSECTS
909 VACANT
BSMT SIDNEY CHARLES W ●
483-7948
911 VACANT
VACANT
VACANT
BSMT VACANT
912 BRUCE OLLIE A ● 471-0539
915 VACANT
BSMT VACANT
916 WALKER ODELL I ● 471-8396
918 ASBERRY ERLINE MRS ●
221-4594
924 EDWARDS JESSIE M MRS ●
842-5208
926 HEYDON JOHN C ● 471-2228
928 VACANT
---E 10TH INTERSECTS
1000 VACANT
1007 KATHARINE APARTMENTS
BRASHEARS DOROTHY MRS
483-3376
SIMPSON BERTHA 483-3376

TP	Adjoining	Source
-	✓	R. L. Polk Co.

RICHMOND AVE 1970

REED JAMES A RD—Contd
9033 ALLEN JOHN W ●
---E 91ST INTERSECTS
9101 WILLIAMS OSCAR ●
9103 GRISSOM HARRY ● 761-4219
9105 POPALISKY J ROBT ●
761-1979
9107 WATKINS J RALPH ● 761-3004
9109 CHESNEY JACK W ● 761-6099
9111 BURTON CALVIN J ● 761-1710
9113 WILKINS ROGER ● 761-8740
9115 SMITH JAMES R ● 763-3487
---E 91ST ST TER INTERSECTS
---E 92D INTERSECTS
9201 MC ELROY RAYMOND C ●
763-2373
9203 BOMAR WM A ● 761-4947
9205 MORAN PAT ● 761-8206
9207 GARVIN RALPH V ● 761-7116
9209 HOWLAND WALTER W ●
763-3833
9211 TRACEY ROBT L ● 761-7652
9213 SIMS ROBT ●
---E 92D ST TER INTERSECTS
---E 93D INTERSECTS
9303 HACKETT ROBT L ● 763-5070
9305 SCHNAKE LEON E ● 763-7952
9309 VINYARD WM H ● 763-3824
---E 93D ST TER INTERSECTS
9420 SAINT LUKES METHODIST
CHURCH 761-6244
--- E BANNISTER RD INTERSECTS
252
---ZIP CODE 64134
---E 96TH ST INTERSECTS
9600 TRUMAN HARRY S SCHOOL
761-2073
9701 FISER JAMES P ● 763-2754
9711 VACANT
9723 MONTEGNA CARL A ● 763-8509
9801 IIAMS WM C ● 763-2949
9803 PRICE C M ● 761-5773
9805 VACANT
9807 SCOTT CHARLES S ● 761-2951
9809 MC CRACKIN GLEN F ●
763-1641
9811 ATKINSON KENNETH W ●
763-2246
9815 MIDDLETON DAVID G
---E 99TH ST INTERSECTS

303
REIGER RD NW -FROM NW 68TH
NORTH WEST

---ZIP CODE 64118

---W 72D NORTH INTERSECTS
---BAUGHMAN RD BEGINS

515
REINKING RD NE

---ZIP CODE 64156
CARLTON EVERT B ● 781-0142
WALKER JOEL G 781-2544

516
PHILPOTT MIKE C ● 781-0582

446
RHINEHART RD -FROM LEE'S SUMMIT
RD WEST AND SOUTH

---ZIP CODE 64139
---LITTLE BLUE RD INTERSECTS
VACANT
KELSO PHILLIP L ● 461-7762
8141 PITT FRED D ● 461-7985
---TURNER RD INTERSECTS
8300 CASE FOREST E ● 524-2979
8621 BREWER JERRY ●
---E 87TH ST INTERSECTS
8801 VACANT
8835 VACANT
15101 WALTER MELVIN L ●
254-5068
15301 KETLEMAN CHARLENE F MRS ●
254-1444
15315 NO RETURN

105
RICHARDS RD -FROM 1 BLK SOUTH
OF W HARLEM RD (HARLEM)
NORTHEAST, 1 WEST OF BC&QRR

---ZIP CODE 64116
10 TRANS WORLD AIRLINES INC
471-4400
70 APCOA PARKING LOT
100 MUNICIPAL AIRPORT 471-4400
AIRPORT BARBER SHOP
TELE-TRIP CO INC 842-8966
AMBASSADOR CLUB 471-4100
BRANIFF INTERNATIONAL
AIRWAYS INC TICKET OFC
471-2606
CONTINENTAL AIR LINES INC
TICKET OFC 471-4188
DELTA AIR LINES INC TICKET
OFC 471-4120
FOUR WINDS RESTAURANT
471-4490
FRONTIER AIRLINES FRT OFC
842-5818
GILBERT JOE GIFT SHOP
471-4490
LIONS DEN BAR TAVERN
MAGIC CARPET COCKTAIL
LOUNGE 471-4490
NATIONAL CAR RENTAL
471-2755
NORTH CENTRAL AIRLINES
842-5522
OZARK AIR LINES INC TICKET
OFC 471-1776
TIE TACK TIES SELF SERVICE
TRANS WORLD AIRLINES INC
ADMINISTRATION OFFICE
471-4400
TRANS WORLD AIRLINES INC
471-4400
UNITED AIR LINES INC
471-8418
WEATHERVANE COFFEE SHOP
RESTR 471-4490
110 BRANIFF INTERNATIONAL
AIRWAYS INC REGIONAL
FLIGHT MGR OFC 421-0178
130 APCOA PARKING LOT
250 CITY DEPT OF AVIATION
274-1726
300 AVIS RENT-A-CAR 221-5585
GILBERT JOE NORTH SNACK BAR
US AIR CARRIER DISTRICT
OFFICE NO 33 421-0800
HERTZ RENT A CAR 221-5155
310 MUNICIPAL AIRPORT NORTH
TERMINAL BUILDING
355 APCOA AUTO PARK
400 CITY AIRPORT OPERATION
471-4946
US AIRPORT TRAFFIC CONTROL
TOWER 221-4487
US RADAR MAINTENANCE
471-8256
420 MUNICIPAL AIRPORT PARKING
STA
500 U S POST OFFICE AIR MAIL
TRANSFER OFFICE 374-2240
600 BRANIFF INTERNATIONAL
AIRWAYS INC MTCE SHOP
471-3382
BRANIFF INTERNATIONAL
AIRWAYS INC AIR CARRIERS
836 EMERY AIR FREIGHT 221-4393
838 AERO MECHANICS SCHOOL
471-8085
900 MUNICIPAL AIRPORT FIRE
STATION 842-9149

216
RICHMOND AV -FROM 7519 E 12TH
SOUTH

---ZIP CODE 64126
---E 13TH ENDS (NOT OPEN)
---TRUMAN RD INTERSECTS
---E 16TH INTERSECTS
---E 16TH STREET TER INTERSECTS
---(NOT OPEN)
---E 17TH INTERSECTS
---E 18TH INTERSECTS

242
---ZIP CODE 64129
4726 ELLMAKER CHARLES F ●
923-4202
4730 WALKER OREN D ●
4734 ALLISON LARRY N ● 923-6716
4738 COBERLEY WILBUR J ●
924-2205
4800 MILLER CHARLES H ●
924-7686
4804 RENDON PHILLIP D ●
924-6067
4808 HAMMONTREE JAMES F ●
924-0558
4812 CAGLEY DOUGLAS K ●
923-3208
4816 BABBONI RICHD ● 921-0833
4824 SEAGRAVES JAMES B ●
861-6524

244
---ZIP CODE 64133
6315 BURKHOLDER ED ●
6319 HOLLINGWORTH F E ●
356-5416
6320 SPRUILL TOM B ● 353-5828
6323 RAMSEY KENNETH W 353-1046
6324 STRINGER HERMAN L ●
356-3745
---E 64TH ST INTERSECTS
6404 SMITH JAMES A ● 358-1286
6407 LAPHAM J HOWARD ● 353-7948
6420 VACANT
6424 GOOD FRED ● 356-0272
6432 NELSON LAWRENCE JR ●
356-3027
---E 65TH INTERSECTS
6500 KASIAH EDWIN L ● 353-2301
6501 PARSONS ROBT L ● 356-2417
6503 HARMON DONALD E
6505 YATES HAROLD E ● 353-9885
6507 CLAYTER HERBERT ● 358-4336
6513 YATES JAMES T ● 353-7179
6517 VACANT
6523 NO RETURN
6524 SMITH GARY D ● 358-0753
6601 AMES LESTER ● 356-5821
6605 HARTENSTINE ORTIE MRS ●
6609 MC CLURE NELLIE M MRS ●
353-3696
6615 WOLFE BODIE
---E 67TH INTERSECTS

246
---E 67TH ST INTERSECTS
6706 WALL VIRGIL W ● 353-7793
6708 VACANT
6709 ANDERSON CATH MRS ●
356-5257
6710 ZIMMERMAN HAROLD E ●
356-4935
6711 GOLDSMITH CHRISTOPHER M
6714 BROUSE CHARLES E 358-0286
6716 SANDERS DOUGLAS C 356-6038
6720 KROGER RICHD D ● 358-0887
6723 BYERS LOSSIE F ● 358-4920
6725 TOMICH MATT J ● 353-3285
---E 68TH ST INTERSECTS
6800 WEBER HERMAN ● 356-8518
6801 WHITMIRE DAVID 353-0490
6802 DORNER JAMES H ● 358-4302
6804 ANDERSON JOHN L ● 356-5035
---E 69TH ST INTERSECTS
6900 HAWKINS MARGUERITE A MRS ●
353-2899
6901 BREEDEN J
6902 FERNEY HERBERT C JR ●
353-0261
6903 STEWART MARIE O MRS ●
353-5783
7144 LONG KENNETH F ● 358-6169
---E GREGORY BLVD INTERSECTS

247
7200 FATINO TONY A ● 353-0833
7204 HILER BOB J ● 358-4834
7205 SPANGLER F EARL ● 353-2374
7208 KING PAUL G RENTAL
PROPERTY ● 353-6836
7209 ROBERTSON K KENNETH ●
353-7233
7211 SHEAHON JOHN A ● 353-2220
7212 CONRAD CHARLES M ●
353-8942
7215 LAWSON JOSEPH ● 353-8347
7216 SMITH MYLIN C ● 353-5247
7220 GRAF RODNEY L ● 353-4122
7221 DE VERA FRANK INS SLSMN ●
---E 73D ST INTERSECTS
7326 UNDER CONSTN
---ZIP CODE 64138
7520 DUGGER EDW A ● 358-6977
7524 SPIZZIRRI JOSEPH E ●
356-0722
7528 CAPPO ANTHONY J ●
7532 BROWN ROBT G ● 356-5435

418
---FAIRWOOD DR INTERSECTS
9201 WOLF AUGUST A ● 761-5300
9211 FRIEZE LEON ● 763-6281
9313 BRATCHER WELBA H ●
761-2441
9314 WINKFIELD CLIFFORD E ●
9315 PLANTE ROBT H ● 761-4094
9316 BENSON JAMES
9317 SCARDINO M F ● 761-0814
9318 HARTSOCK THEO C ● 763-6560
9319 WINDERS DALLAS C ●
761-0746
9320 CUNNINGHAM OGLE 763-5924
9321 SELLER DONALD E ● 761-3354
9322 LARY ALBERT ● 761-8401
9323 BUSSARD FELIX E ● 761-0614
9400 PREWITT DONALD E ●
763-2394
9401 DONZE PAUL ● 763-8298
9402 HUDSON CLEO L ●
9403 GRAVES JEAN MRS ● 761-6707
9404 ROBERTS CHRIS B ● 761-0087
9405 THURNAU GAILEN E ●
9406 ZUCK WILLARD A ●
9407 LECUYER GORDON F ●
763-0675
9408 VACANT
9409 OBERHOLTZ DONALD E ●
763-1347
9410 KLINGELE EUGENE G ●
763-1017
9411 WISDOM WM R ● 761-2028
9412 WALTER RICHD J ● 761-6146
9413 DRAKE DAVID ● 761-7455
9414 HUNT TERRY 761-0747
9415 MOFFETT C RICHD ● 763-0528
9416 MEINSEN W DONALD ●
9417 WHITLEY FRED K ● 761-2591
---E BANNISTER RD INTERSECTS

420
---ZIP CODE 64134
---KEMPER RD INTERSECTS
9600 HOLLOWAY BILL F ● 761-1573
9605 BRASWELL HOMER L ●
761-5155
9607 FIELDS STANLEY M ●
9608 MARVIN MARY E MRS ●
763-2793
9609 ARNONE JOSEPH J ● 761-5539
9612 HALL RONALD G ● 763-0532
9615 MOORE W FREDK ● 761-3545
9700 RANDOL RICHD L ● 761-8453
9701 JACOBS ALFRED L ● 763-6319
9704 WASSON IRL B JR ● 761-0538
9705 MOORE JAMES B ● 761-2163
9708 FOSTER JOHN M ● 761-4987
9710 CREECH HARVEY R JR ●
761-1397
9712 NOONAN PAUL A ● 761-1771
9713 HAMPTON JUSTIN R ●
761-2162
9714 LUTON RAY A ● 763-2776
9715 DURBIN WM L ● 761-0959
9717 COOK RICHD M ● 763-3299
9801 SMITH JAMES L ● 761-0588
9804 KLUMB HANK ● 763-5468
9807 MOORE CLAUDE ● 761-4477
9808 FRANK TOM L ● 761-3363
9809 BRAY JESSE H ● 763-2745
9812 WEISKOPF LAWRENCE R ●
763-7582
9815 KORHUNIAK TONY F ●
763-3631
9816 BENNESON JOHN R ● 761-6232
9819 WALKER HERSCHEL H ●
763-5655
9823 TODD ALLEN G ● 763-5759
9900 EDWARDS CHARLES E ●
763-4620
9904 NEAL FRANK 761-6854
9924 BRADLEY A LEE ●
10000 ANDERSON AUBREY L ●
763-5794
10006 THOMPSON KENNETH L ●
763-2309
10012 MARTIN THOS ● 763-0945

422
---E 103D ST INTERSECTS
10300 SMITH CARL E ● 761-9384
10301 WELLS CONNIE ● 761-1475
10303 LUVIN ELLIS C ● 763-8629
10304 YARDLEY CARL J ●
10308 POLSON LARRY E ● 763-6989
10309 JENSEN NIELS J ● 761-2806
10311 CLYMENS HAROLD D ●
763-0234
10312 NO RETURN
10316 CAPERBON JACK W JR ●
10317 GIGANTE JOHN B JR ●
761-0337
10320 COUCH JAMES ●
10323 HENSON JAMES E ● 763-5469
10324 SALAGHTER EDMOND W ●
763-7492
10401 FAUGHN JOHNNY L ●
763-4527
10404 NEWPORT JAMES ●
10405 DUDLEY BOYD ● 761-6543
10408 LEDFORD ELZA R ● 761-8236
10409 CAFFEY HERBERT E ●
761-0854
10413 SANDERS WALTER L ●
761-0710
10417 PARSLEY CARL H ● 763-3067
10418 KOMER ERNEST ● 763-5588
10420 RAMIREZ JAMES R ●
761-1009
10421 LIBBY E W ●
10424 ZACHARY CECIL E ●
761-9897
10425 RICHARDSON LOREN L ●
763-5097
10427 RUSSELL THOS O ● 761-5728
10428 ANDERSON KENNETH E ●
761-3373
---E 105TH INTERSECTS
10500 MORETINA DONALD F ●
761-2482
10501 RICKEY EMERAL L ●
761-6740
10505 CRUISE JAMES S ●
10506 WINFIEL CHARLES A ●
761-2744
10508 HESSEFORT JERRY ●
763-7624
10511 TWADDELL LORAN J ●
761-2777
10512 WATKINS DONALD E ●
761-1159
10515 HART EVERETT E ● 763-3674
10516 CRAWFORD JAMES P ●
763-6209
10519 EGGERS LEW H ● 763-1063
EGGERS KARL J ● 763-1063
10522 NEITCH JOHNNIE J ●
763-1595
10523 THOMAS OTIS E JR ●
761-2019
10524 MEANEY MICHL J ● 761-7131
10600 MEANEY JOHN M ● 761-6681
10601 KROENKE DENVER L ●
761-9725
10604 ALLEN RAYMOND J ●
763-1312
10605 ERICKSON PETER S
10607 MATHEWS FRANK J ●
763-2771
10608 FERGUSON ASAHEL ●
763-8510
10609 SMITH F EARL ● 763-3164
10610 MC DOWELL WAYNE A ●
763-8173
10611 SMITH RAYMOND H ●
761-0275
10612 LUSBY JOHN B ● 763-1611
10619 PARKER ELMER G ●
10622 WINNINGHAM JACKIE D ●
763-1687
---E 107TH ST INTERSECTS

426
---E 114TH ST INTERSECTS
11400 HENDERSHOT THURL E ●
761-6631
11401 BOHRMAN JACK B ●
11402 PEERY EDWMOND C ●
11403 WIRT RICHD E ● 761-8983
11404 EDWARDS OLIVER H III ●
763-0673
11405 ANDERSON LEROY ● 761-8987
11406 BLINZLER EDW J ● 761-6795
11407 STOWELL ROY L ● 763-1345
11408 NIELSEN EVERETT D ●
761-0671
11409 OZBURN ALBERT H ●
763-2339
11410 RHOADES JAN ● 763-5708
11411 WILSON HAROLD R ●
763-8619
11412 BROWN IDABELLE MRS ●
761-4846
11413 PETERSON CHARLES N ●
761-2103
11414 RHOADS LAWRENCE E ●
11415 AUDISS CLAUDE ● 763-6955
11416 VACANT
11417 BASKIN JAMES L ● 761-0642
11418 RILEY JOANN ● 761-8120
11419 CORNISH IRENE MRS ●
761-4974
11420 HAWKINS EUNICE ● 761-3772
11421 KILGORE GLENN D ●
761-5264
11422 HILDEN ROBT D ●
11423 NO RETURN
11424 HECKART VELVA R MRS ●
761-2808
11425 BOONE RICHD S ● 761-8315
11426 MC DONALD WM H ● 763-3831
11427 HUMPHREYS WILLIE ●
763-5442
11428 SKAGGS EUG L ● 761-8577
11429 COCHRAN VIRGINIA C MRS ●
763-4073
11430 TURRELL DONALD ● 763-6674
11431 MILUM GLEN V ● 761-4083
11432 ALLISON RAY ● 763-5893
11433 CHEAQUI WM M ● 761-7544
11434 HERBST NICHOLAS F ●
761-6766
11435 DAVENPORT FRANK I ●
761-8622
11436 WAGESTER JAMES C ●
763-1036
11438 SHARP HARRY L ● 761-6871

328
RICHMOND AV N -FROM 51ST N
NORTH THEN EAST

---ZIP CODE 64119
5016 O'DELL CHARLES T ●
454-1263
5020 RAINS CALVIN ● 453-2239
5024 NO RETURN
5100 WREY GARY D
5104 O'LEARY THOS E ● 454-0834
5108 HARDCASTLE LAWRENCE L ●
453-7332
5112 MC PIKE ELDON ●
5116 KELLEY ROBT ●
5120 MC COLM LARRY R ● 453-5660
5124 BUFFHIN LLOYD B ● 454-4096
5128 ROBERTS PAUL S ● 452-9077
5131 HOLLAND GORDAN E ●
453-3424
5132 SALSIG GEO C ● 454-3232
5135 COX JOSEPH A ● 453-2391
5136 MC COWAN WALTER H ●
453-6489
5139 SHENEFIELD LARRY R ●
454-4476
5140 CRANEY JOHN L ●
5143 GIBSON JAMES A ● 454-5073
5144 DUTHOO DAVID L ● 454-3746
5147 CAMPBELL JACK 454-0448
5148 SHOEMAKER GAYLEN ●
454-5487
5151 LA POMA DONALD ● 453-1342
5152 MOLINA FRED A ● 452-9274
5155 KRAUSE MARLENE MRS
453-6891
5156 LARD ALLEN L ●
5159 NICHOLS GARLAND R ●
454-7090
5160 RIFFLE THOMAS W ● 453-7037
5163 KENNEY WM L ● 452-4121
5164 KING CHARLES J ●
5167 SULLIVAN WM E ●

TP	Adjoining	Source
✓	✓	R. L. Polk and Co.

OZARK RD 1966

ORCHARD RD--CONTD
11141 TOMPKINS CLYDE S ●
S01-5799
11142 GARNER HONOR F MRS ●
S01-6218
11143 HART LOUREN G ●
11144 HAMMER NORA MRS ●
S01-0053
11146 ROWSON RICHD K ●
S01-2598
11147 KREEGER HERBERT E ●
S01-4852
11149 BERGLUND HOWARD A ●
S01-8251
---E 113TH ST INTERSECTS
11309 PARSONS LESLIE J ●
S01-6798
11312 TWYMAN RAY C JR ●
S01-1312
11314 KELLER GLENN A ●
S01-4940
11315 PETERSON FARRIS A ●
S01-5907
11316 CHITWOOD MAYME A MRS ●
S01-1739
11320 FIGGINS RANKIN R ●
S01-7800
11321 ATKINSON HAROLD E ●
S01-7394
11400 FLEEMAN E W ●
11401 FROMHOLD HARRIS A ●
S01-5535
11403 BOYER EUG H ● S01-5186
11407 OWINGS DUDLEY L ●
S01-5022
11410 SCHUMACHER WANDA MRS ●
S01-5433
SCHUMACHER REFRIGERATION
& AIR CONDITIONING
S01-5433
11415 MC CORMICK CHARLES J ●
S01-7071
11416 KOTSIFAKIS PETE G ●
S01-3514
11418 HEMBREE WILSON ●
S01-5061
11421 HAYSE JOHN W ● S01-7698

608
---115TH ST INTERSECTS
11500 ROBERTS MARK W ●
S03-1079
11502 SANDVIG JOHN A ●
S01-6705
11504 TERRY EUG H ● S01-4605
11505 RAYBURN EVA J MRS ●
S01-4234
11506 FALKE E W ● S03-3630
11507 GRUNER GERALD A ●
S01-4335
11508 BUCKMAN HAROLD J ●
S03-1053
11509 FRITTZ JACK D ● S01-0482
11510 WRIGHT HOMER L ●
S01-6391
11511 ROBERTS JERE L ●
S01-6866
11512 MC KNIGHT C L ● S01-5629
11514 VACANT
11515 RAYBURN CLYDE J JR ●
S01-8862
11600 BUCK WM E ● S01-7995
11601 RAMING MARTY B ●
S01-3165
11602 MILLS DAVID ● S01-7032
11603 BLAIR ROSEMARY MRS
11604 HENLEY WM C ● S01-2832
11605 WILLIAMS GLEN ●
11607 LINFORD DENIS P S03-5465
11609 PRUDEN TED L ● S03-2446
11610 THARP KENNETH E ●
S01-5891
11611 GREEN WM P ● S03-2942

152
ORD ST -FROM 2215 LEXINGTON AV
SOUTH

---ZIP CODE 64124
306 DANUBIO PATSEY ● EN1-5459
RICHARDS LARRY L BA1-8668
307 CALANDRA FILIPPO ●
GR1-5975
309 BAKER JOHN F ● GR1-0067
---MINNIE ST INTERSECTS
313 LORIA ANTHONY ● HA1-0775
315 LUCITO SAML J BA1-9251
316 ARMATO CARL GR1-7081
WALSH SADIE R MRS HA1-3582
317 GARCIA TONY GR1-2973
VALLACQUA ROSE MRS
HA1-5948
318 COUNTI THOS S ● VI2-4307
322 LEWIS FRED N ● HA1-8082
TOWES DELORES HA1-7546
325 FULTZ FREDK W
HOLST JAMES D GR1-3925
326 ANCONA PHILIP P ● HA1-8479
327 SERRONE LOUIS J ● HA1-5694
328 CACIOPPO MARIE MRS ●
HA1-6973
329 OROZCO MANUEL A
330 SERRONE ANGELO J HA1-7231
333 BARTOLOTTA GERALDINE M MRS
●
BARTOLOTTA MARILYN MRS
TITONE JASPER GR1-2069
334 FONTANA FRANK F ● VI2-3753
337 DI GIOVANNA FLORENCE B MRS
● BA1-2048
---ELM INTERSECTS
---AMIE INTERSECTS

438
OSAGE ST -FROM E 50TH SOUTH, 5
EAST OF MC COY

---ZIP CODE 64133
5000 EKSTROM OLLIE R ●
FL6-0748
5001 CHAPMAN ROBT V ●
5004 SMITH RETTA S MRS ●
FL6-4009
5005 HOOD JOSEPH D ● FL8-0231
5007 SMITH CHARLES W ●
FL6-5911
5008 BURROWS PHILIP F ●
FL6-4497
5009 LOHMAN WESLEY H ●
FL3-0150
5011 SIBERT MARION F ●
FL6-1126
5012 TUTTLE ROBT L ● FL3-7587
5013 LUKE HAROLD H REV
FL6-8754
5014 WILLIAMSON WM R JR ●
FL6-1373
5015 WELCH J HOMER JR ●
FL8-1895
5016 IRONS CHARLES E ●
5017 STONE ROY H ● FL6-6093
5021 ATKEISSON ROBT A ●
FL3-0219
5024 FITZWATER RICHD C ●
FL6-3002
5026 SEABAUGH TONY J ●
5106 VACANT
5112 MILLER ROBT ● FL3-3783
5113 HEYER DELMAR L FL6-8934
5118 ROSS EDW W ● FL3-4078
5119 MIRICK A JACK ● FL6-2563
5124 GOWER HENRY D ● FL3-0524
5125 CRABTREE KENNETH F ●
FL3-3835
5130 DAVIS MALCOLM H ●
FL8-0099
5131 CAMBERS WM H REV ●
FL6-2555
5134 JONES J WALTER J FL8-5630
5135 STEVENS WILLIAM A ●
FL8-1528
5200 VACANT
5212 ORGAN WAYNE S ● FL8-1661
---E 51ST INTERSECTS

248
OVERHILL DR -FROM 8300 E 83D
SOUTH

---ZIP CODE 64138
8316 AUSTIN VIVIAN P ●
FL3-2736
8319 YEAGER DONALD F ●
8335 SMITH DWAYNE C ● FL3-3736
8364 UNDER CONSTN
8365 SCHMIDT WILHELM F ●
FL3-2981
8370 UNDER CONSTN
8376 SHONFELT DONALD B ●
FL6-9086
8388 ZEBARTH RALPH S ●
FL3-3981
8400 GANLEY WM C ● FL3-1500
---OLDHAM RD INTERSECTS

420
OVERHILL RD -FROM 7600
BANNISTER RD SOUTH AND EAST

---ZIP CODE 64134
9600 DUSSELIER CHARLES J ●
S03-1223
9607 VACANT
9610 VACANT
9614 UNDER CONSTN
9618 UNDER CONSTN
9619 VACANT

498
OVERLAND DR N -FROM NW 56TH
NORTH, 1 WEST OF N NORTHWOOD
RD

---ZIP CODE 64151
5115 PRYOR ROSS ● SH1-0588
5117 NO RETURN
6313 DOWNING RUSSELL
CONSTRUCTION CO
EXCAVATING CONTR
SH1-0888
DOWNING RUSSELL L ●
SH1-0888

499
6500 VACANT
6504 VACANT
6508 BEAZLEY RICHD L ● SH1-4346
BEAZLEY RICHD L ●
SH1-4346
6512 NO RETURN
6801 DEISTER DON L ● SH1-2368
6804 UNDER CONSTN
6805 EDDINGS JOE D ● SH1-4283
6820 UNDER CONSTN
6832 UNDER CONSTN
6900 UNDER CONSTN
6912 UNDER CONSTN
6916 UNDER CONSTN
6918 UNDER CONSTN
6919 NUCKOLS JOSEPH H ●
SH1-3034
6920 UNDER CONSTN
6924 UNDER CONSTN
7007 KERR CARL L ● SH1-5515
7011 VOGT LEONARD E ● SH1-3032
7119 WINGO HARRY ● SH1-2282

242
OVERTON AV -FROM 9700 E 47TH
SOUTH

---ZIP CODE 64133
4700 ANDERSON JESSE L ●
EN1-3986
4701 JAKUBOSKI GEO ● FL6-6856
4709 CHAPMAN DONALD L ●
FL6-8836
4710 MC KINNEY CLYDE L ●
FL3-9201
4715 PHILLIPS OLIVER W ●
FL6-1421
4716 ROARK MARIAN ● FL3-4192
4719 GALBRAITH GEO K ●
4722 VONDERAHE EUG J ●
FL6-7603
4723 KREAMER HENRY G
4726 OUTLAW JERRY R ● FL3-0383
4729 COULTER SHIRLEY A MRS ●
FL3-4386
4732 TREFZ ROBERT S JR
4733 GROSS ROBT D ● FL3-8645
4736 PIPER DONALD L ● FL3-6998
4737 SCOTT BILLY J ● 816-4344
4800 EARLEY HENRY G ● FL3-6904
4801 HARRIS AMOS ● FL6-9683
4808 MC CURRY LEROY O ●
FL6-5070
4811 ELLIS GOLDEN M ●
4814 HEMPHILL GARY G ●
FL6-4620
4817 GAULDIN CHARLES ●
FL3-3397
4820 WILSON JACK L
4821 SNOW DOYLE ● FL3-2490
4824 SPILKER FRED C ●
4827 EARP WM G ● FL3-8918
4830 BROWNING JOHN R ●
FL3-5978
4833 GRANTHAM JERRY A FL6-9598
4834 QUICK KARL L ● FL6-7708
4837 HOWE WALTER J ● FL3-7577
4840 BRADEN CHARLES ●
4843 GOODISON LOUIS E ●
FL6-1312
4844 ROHN RICHD J ●
4900 OSTER WAYNE E ● FL3-6465
4901 GEIM CHARLES R ● FL6-4181
4906 WARD L DEAN ● FL6-5795
4907 MORRY RICHD S ● FL3-9299
4913 TOCZEK FRANK J ● FL6-2676
4914 ROGERS EARL W ● FL6-0318
4918 GAFFNEY WM G ● FL6-7772
4919 DAVIS JAMES W REV ●
FL6-4571
4923 KELLEY ROGER B ● FL8-1171
4928 HONEYWELL FRED J ●
4929 WHITE JAMES A ● FL6-5469
4933 MILLER RICHD E ●
4937 DEAL WM M ●
4941 TOMLINSON JOHN FL8-1467
5032 BAKER ROBT W ●
5035 MC COY MARK
5036 DENNIS RONALD D ●
FL8-0177
5040 EGAN WM ● FL3-6643
5100 CASEY D D ● FL3-4779
5104 GRAHAM CHARLES O ●
FL3-3479
5107 MC CLENATAN DAVID L ●
FL6-0960
5108 HIGHBARGER HOWARD E ●
FL6-1765
5111 HOWARD CHARLES P ●
FL6-5111
5112 BOWMAN JIMMIE E ●
5115 TAYLOR PAUL H ●
5116 ADAMS DWIGHT E ●
5120 PENNINGTON ROBT J ●
FL6-6788
5123 NO RETURN
5206 HESSLER JOHN T ● FL8-0677
5220 PRICE DONALD R ●
5232 SHIELDS K W FL6-5371
5252 POPP RAINER FL8-0060

242
OVERTON CIR -FROM 5200 OVERTON
RD NE, THEN IN A CIRCLE BACK
TO 5200 OVERTON RD

---ZIP CODE 64133
5119 WAGNER JOHN D ● FL6-1455
5123 MASON GEO ● FL8-0129
5201 BOWERS KENNETH C ●
5207 DAVIS LELAND E ● FL3-9151
5213 BARKER DAVID ● FL8-0620

616
OVERTON ST N -FROM N LINDENMAN
TER NORTH

O'TOOLE NELLIE MRS ● GL4-0458
URNESS ANDREW ●

226
OWEN AV -FROM 1000 N PROSPECT
AV EAST

---ZIP CODE 64120
2800 GROSS LESLIE L HU3-3477

---N CHESTNUT AV INTERSECTS
---N KANSAS AV INTERSECTS
---N AGNES AV INTERSECTS
---N BELLEFONTAINE AV
INTERSECTS
---(NOT OPEN BET N
BELLEFONTAINE
---AV) O

238
OXFORD AV -FROM 36TH ST TER
SOUTH

---ZIP CODE 64133
3601 GAHAGAN OWEN FL8-0368
WHITE CHARLES L REV
FL6-9675
3608 SWANN ERNEST H FL6-2449

430
10300 COKER THOS C ● S03-4166
10311 VACANT
10316 BEGLEY KEITH L S03-2767
10320 THOMPSON MARTIN A ●
S03-1357
10324 GORDON BLAND M ●
S03-1535
10325 ESTES GLEN W S03-4935
---E 104TH INTERSECTS
105 AUDSLEY W A ● S03-0529

616
OXFORD ST N -ROM NE DONIPHAN
NORTH AND SOUTH

GOTCHER DONALD ● GL2-9160
MINTER L K ● GL2-6169
---NE DONIPHAN INTERSECTS
COLLIER CARL GL2-5252
GRACEWELL FARMS GL2-5252
LAWSON ROBT
GRIMES ORVALL GL2-8799
KING BURNHAM ● GL2-3800
MARTIN SAM GL2-6905
MINTER ROBERT E ● GL2-4300

242
OZARK RD -FROM SNI-A-BAR RD
EAST

---ZIP CODE 64129
7330 THOMS DONALD E ● UN1-0255
7417 TIPPIE WILLIS F ●
UN3-3041
7500 EASTWOOD HILLS COMMUNITY
ASSN SOCIAL CLUB
EASTWOOD SWIMMING CLUB
INC WA4-9839
7501 BURNS DOUGLAS ● WA1-8899
7505 BARLOW RICHD M ●
7509 FISCHER EDW J ● UN1-2531
7511 JAMES WM F ● WA1-1648
7517 PARKER JAMES L ● UN1-2064
7605 SERRANO GALO R ●
7611 ROBINSON JAMES E ●
7621 CRAWFORD DONALD L ●
UN1-2651
7627 PENNINGTON B L
7633 RICKER GERALD L ●
WA3-4219
7639 BROUSE CHARLES E ●
WA3-1258
7701 DOHERTY EDMOND WA4-2119
7707 VACANT
7711 VACANT
7715 PARKER CHARLES E ●
WA3-9260
7719 HERRINGTON JAMES W ●
WA3-5979
7801 MEYERS JOHN R WA3-9064
7805 RILEY ROBT A ● WA4-2913
7815 HOLLOWAY JOHN G ●
WA1-5755
7819 SANDERS CLARENCE E ●
WA3-0782
7901 CRANE DAVID E ● WA1-5043
7905 DIERKING ROBT W ●
WA3-6952
7909 WASSON DALE L ● WA3-2051
7915 LADING DONALD E ●
WA3-8770
7919 BRESHEARS ROBT D ●
UN1-3925
8100 MUNICIPAL FARM UN1-1212
CITY PENAL INSTITUTION
UN1-1212
CITY WOMEN'S REFORMATORY
UN1-1212
PROVYN CYRIEL UN1-1212

112
PACIFIC ST -FROM 539 CHARLOTTE
EAST

---ZIP CODE 64106
---COTTAGE LA INTERSECTS
---CAMPBELL INTERSECTS
908 VACANT
911 INFRANCA PHILLIP GR1-4017
ZEFFIRO JOSEPH VI2-8791
BSMT CASCARO MIKE
914 ROBAINA HAROLD BA1-5361
SANDRIDGE EDDIE
---HARRISON INTERSECTS
1000 VACANT
1001 KNOTTS ETTA MRS BA1-3978
1001½ MANGIACINA ALFONSO ●
VI2-9594
1002 VACANT
1003 FRANK'S SHOE REPAIR SHOE
REPR
1004 MASCATO,JENNIE VI2-1160
1006 CHANCELLOR THOS BA1-9830
1008 HOAG EARL
1009 VACANT
DEL CUETO ROBERTO
BA1-0648
SINCLAIR VIRGINIA M MRS
VI2-2016
VALENTI KATE MRS ●
VI2-3449
BSMT VACANT
1015 JACKSON LOUIS J GR1-5237
TESTA MARION J ● HA1-5698
BSMT MONTES MANUEL BA1-5892
1030 NO RETURN
---GILLIS BEGINS

116
---TROOST AV INTERSECTS
1100 STRADA JOSEPH HA1-7934
STRADA SAM
1101 VACANT
MOORE DELLA MRS HA1-0614
1113 CIPOLLA JOSEPHINE MRS
HA1-1706
MAGGIO ANTOINETTE MRS
HA1-3756
1115 ROYVAL JOSEPH BA1-4015
1116 SCOLA PAUL V VI2-6710
1117 SBISA GEO VI2-0598
1118 BUSETTI FRANK
1119 LOMBARDO FRANK GR1-3193
1120 DE GRADO MARY MRS
LEE ROY
1121 PALMENTERE MARIA MRS
HA1-2252
1122 SIVIGLIANO BEN ● BA1-7046
1123 CUEZZE SAM A GR1-1971
PALMENTERE VIRGINIA MRS
GR1-7253
1124 KINNEY LAWRENCE J
BA1-5748
CORSENTINO MAMIE MRS
1125 GIANGROSSO ANGELO
HA1-7291
REAR VACANT
1126 GERACI VIRGINIA D MRS
1127 DE WEESE JAMES R HA1-0716
REAR VACANT
1128 CAPO JOSEPH ● VI2-6495
1129 DI CAVOLO SALVATORE
BA1-5148
1130 MANADE CHARLES W VI2-2891
1131 SANTAMARIA BOLDOSSARE
1132 SCHAFFER DONALD P
VI2-0760
1133 FLORES RAYMOND E VI2-0143
DESPRI DALE
1136 GARGOTTA ROSE VI2-7666
REAR VACANT
REAR JAKOFCICH ROMANO
1138 ROBB RUFUS F
WARREN GRACE E
REAR DONNICI ALFONZO BA1-3156
1139 DI STEFANO JOSEPH M ●
BA1-0887
AJAX TRASH HAULING
BA1-0887
---LYDIA AV INTERSECTS
---PASEO INTERSECTS

216
PALMER AV -FROM E 16TH SOUTH

---ZIP CODE 64126
---E 16TH STREET TER
INTERSECTS
---E 17TH INTERSECTS

418
---E 93D ST INTERSECTS
9300 WRIGHT WM G S03-1100
9301 MC COY HERBERT M ●
S01-8568
9304 SHAFFER WILLARD L ●
S03-1447
9305 KINGLAND QUINTEN E ●
S01-5702
9306 COLVIN LLOYD P ● S03-3503
9307 PESKIN DEAN B S01-6081
9308 SHULL WILBUR R ●
9309 GUARINO JOSEPH ● S01-5943
9310 MC CAFFREY BERNARD J ●
S01-0084
9311 BAKER FRANK M JR ●
S03-0518
9312 MENKE ROBT V ● S01-8180
9313 CIMINO JOHN O ● S01-5384
9314 STEWART JERRY ● S01-2772
9315 YOUNGBERG WM ● S03-0084
9316 BOONE ROGER ● S03-4895
9317 SMITHMIER VIRGINIA L MRS
● S01-7540
9318 MUGLACH ALBERT W ●
S03-1145
9319 BORCHARDT HAROLD R ●
S01-5942
9321 BRANTNER STANLEY J ●
S01-5951
9400 LANTZ W CURTIS ● S01-7783
9401 DUNCAN JOHN L ● S01-1826
9402 SMITH WHITNEY A ●
S01-7730
9403 POTTS VIRGIL W ● S01-6041
9404 BRAND LEONARD S01-2374
9405 BELL EDW C ● S01-7548
9406 POESE WILMOT W ● S03-2452
9407 SCHWAN RUDOLPH J ●
S01-6618
9408 BULLARD HAROLD G ●
S03-1638
9409 DALRYMPLE NOBLE A ●
S01-8408
9410 STEGER THOS W ● S01-3440
9411 BREWER HERMAN B ●
9412 WHIDDON WADE ●
9413 WILKERSON KENNETH L ●
S01-7216
9414 ROSE ROBT L ● S03-2761

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

47TH ST TER E 1966

47TH ST W--CONTD
APARTMENTS--CONTD
2 VACANT
3 BELL D A LO1-5844
4 HOBSON W P
1502 APARTMENTS
5 RAYBURN JACK K JE1-1043
6 WEICKERT EDNA G PL3-2824
7 VACANT
8 VACANT
STREET CONTINUED
1507 EVERHART GLORIA J DRSMKR
● JE1-7572
---FAIRMOUNT AV INTERSECTS
---WYOMING ST INTERSECTS
---GENESEE ST ENDS
---BELL ST INTERSECTS
---STATE LINE INTERSECTS
---CITY LIMITS

68

47TH ST TER E -FROM OPP 4722 OAK EAST

---ZIP CODE 64110
600 VACANT
604 PATZMAN DAVID F ● LO1-8303
608 JONES MARY L
612 WALLER DALE L ● WE1-1736
625 PFAFF BERT H ● LO1-1786
---ROCKHILL RD INTERSECTS
---HOLMES ST INTERSECTS
---(NOT OPEN BET HOLMES AND
---FLORA AV)

94

---FLORA AV INTERSECTS
1601 LA SALLE ELIZ R MRS ●
WA4-6019
WYNNE MARGT L ● WA4-6019
1605 ADKINS RODNEY S ●
---WAYNE AV INTERSECTS
1716 MONGOVEN JAMES F ●
WA3-2321
1718 DUGAN PATRICIA M MRS
UN1-2810
1720 VACANT
1722 VAUGHN FORREST L ●
WE4-8458
1723 CROISANT LEWIS O ●
WA3-4291
1724 BALLARD CECIL ● UN1-2063
1726 STANLEY D W WA1-9148
1727 OWINGS ORA D ● WA4-4633
1728 NORBERG KURT A WA3-9692
1729 NO RETURN
1730 GIMPLE CHARLES ● WA4-8464
1731 VACANT
1732 KEATON E PAULINE MRS ●
WA1-4995
1733 VACANT
1734 POLLARD RAYMOND I ●
WA1-4361
1735 VACANT
1736 WELL WM G ● WA1-8679
1737 JACKSON WARREN G
1738 VACANT
1741 HOPE MARY C MRS ●
WA3-9015
1745 GABRIEL DONALD ● WA3-0855

132

---WOODLAND AV INTERSECTS
1800 PALLANICH RICHD J
UN1-3432
1801 SEARS ROBT C ● WA3-4379
1802 PAUTZ HARVEY W ● WA4-5429
1803 SHOEMAKER LLOYD M ●
WA4-0890
1804 COONROD GLEN B WA7-4080
1810 HERMAN HENRY W ● UN1-2282
1811 FARRIS ARTH M ● WA4-0206
1812 HICKLE AUSTIN M ●
WA4-8831
1816 KELLEY MILLARD E ●
WA1-3108
1819 WARD FRANK W ● WA3-2375
1820 NEIDERT JOSEPHINE B MRS ●
WA1-9661
1821 RANGEL LUIS ●
1823 LONGAN JOSEPH C ●
UN1-3505
1824 REID LEONA C MRS ●
WA4-0080
1827 VACANT
1828 BOREL EGLANTINE E ●
WA1-8084
1832 KRUG FRANK M ● WA4-5379
1833 SIMPSON JAMES ● WA3-5214
1836 ETHRIDGE BILLY C ●
1836 HUGHES JESSIE L MRS ●
WA3-7629
1841 ROTHENBERG SIDNEY L ●
WA3-8329
SCHWARTZ BERNICE MRS
WA3-8329
1844 FOGT EMMA MRS ● WA1-5392
---EUCLID AV INTERSECTS
2004 SILVERBERG EDW ● WA4-4683
2005 LAUDENBERGER EDGAR R ●
WA4-3829
2009 KIRN DON J ● WA4-4240
2010 HOOD KENNETH B ● WA4-7460
2012 BEAULIEU GERARD W ●
WA1-5466
2014 SIMPSON JAMES M ●
WA3-1691
2015 WALKER WM C ● WA4-4299
2016 LEUENBERGER JOHN C ●
WA4-6997
2019 HAKE CLEM H ● WA3-2651
2022 VACANT
2025 WILLIAMSON RUSSELL ●
WA4-4337
2033 STRATTON KENNETH L
WA4-2273
2037 WILKINSON ADA C MRS
WA1-0296
2039 HELMS BILLY G ● UN1-4625
2041 ARNOLD JOHN W ● WA1-3837
2102 MOORE WM H WA1-4992
2106 HERRIN DOROTHY J ●
WA1-2762
2110 KEMMERLY DONALD L ●
WA3-9790
2114 YOCUM DELMAR D ● WA3-7954
2118 BELL OTTO E ●
2122 SCHAEFER TED J WA3-4915
2126 FISCHER WM P ● WA1-9506

136

---BENTON BLVD INTERSECTS
3702 BENTON MANOR APARTMENTS
100 SCHENKE PAUL L
WA4-5562
101 PENDLAY HAROLD F
102 VACANT
103 HAMBEL MARGT MRS
UN1-2154
200 DEEDS CAROLYN WA1-9473
201 BETHKE JOYCE E
UN1-6811
202 TOOKER TOMMY S
203 CARLSON M J WA1-9479
3703 APARTMENTS
100 COLE CHARLOTTE
UN1-0403
101 SIDOBRE ANDREA
102 VACANT
103 KEPPEL HOWARD A
WA3-3922
200 BRACKMAN PAUL D
UN1-6763
201 HAMEL MAXINE MRS
202 PHILLIPS RAYMOND
203 CALVERT FLOYD A
WA1-7023
BSMT DAVIS JACK J
3704 APARTMENTS
100 EBERHART S PHILLIP
WA4-1923
101 ROSA BARBARA
102 COLBURN GLADYS
103 KENNEDY J A WA3-8242
200 NOBLE JOHN WA1-6641
201 VACANT
202 REDMAN MARY MRS
203 ESSEX THELMA
3706 APARTMENTS
100 JONES KATH S MRS
WA4-3746
101 KILTS PAUL E WA4-8516
102 MOIYS ROBERT L
103 BRAMAN CHARLES
200 VACANT
201 ANDERSON GARY A
WA3-3407
202 GAUSNELL J G WA3-0417
203 LUNDGREN LAURA
WA3-9316
3707 APARTMENTS
100 KURTZ GEO B WA3-2186
101 DEVINE SAML D
102 HAMM HELEN L MRS
WA3-6029
103 REED LARRY WA3-3033
200 HAMPTON HARLAND L
WA3-5305
201 HUNDLEY GENEVIEVE
WA3-1969
202 SANFORD CAROLYN
WA3-1216
203 JOHNSON LUTHER
3708 APARTMENTS
100 FREEMAN AVERY
101 MAZON DOROTHY MRS
102 KIMBRELL WM R
103 VACANT
200 HILDEBRAND C LARRY
WA1-8129
201 COSTELLO NORA
202 VACANT
203 KUSKE DONALD A
WA1-4368
3710 APARTMENTS
100 FALKNOR ALMA WA3-2526
101 WHITSON D S
102 REID EUNICE C MRS
WA4-5708
103 SHIPLEY VIRGINIA W
WA3-0011
200 NOLAND TIMOTHY F
UN1-4746
201 DALE GERALD D WA1-7645
202 VACANT
203 FREUND DAVID
3711 APARTMENTS
100 EVANS MABLE R MRS
WA3-9508
101 ZINK DELLA J WA1-9591
203 VACANT
202 PETERS PHILLIP J
UN1-2569
201 VACANT
200 NEPTUNE W LORENE
WA4-8261
103 BENNETT FLOYD G
WA4-1169
102 HANSON ROBT H WA4-3969
3712 APARTMENTS
100 HELGET TWILA D MRS
101 ZION ROBT R WA4-2292
102 ROBBINS SARAH S MRS
WA1-2969
103 MC NEAL JOHN
200 BROWN MARY C MRS
WA3-7421
201 FERGUSON RUTH E
UN1-5751
202 SNEDEGAR RUTH L
UN1-3381
203 BLACKMORE SAML P
WA3-6479

184

3800 PEARSON ROBT L ● WA3-4470
3804 BLACK HAROLD ● UN1-1422
3808 HARTLEY HERSHELL ●
WA3-4298
3812 ELLIS ROBT O ● UN1-3599
CALLIE'S DE LUXE BEAUTY
SALON UN1-3599
3900 VACANT
3904 LITTLEJOHN ALEX ●
WA4-4566
3908 PARKER WM T ● UN1-2415
3912 WESSON SAMMY ● WA3-4594
3916 OATES HERMAN H ● WA3-2810
3920 RAINEY HENRY L ●
3924 DANDRIDGE ARMOUR JR ●
WA1-9797
3928 NOIMEN JOHN H UN1-2348
3931 SWARTZLANDER NORMAN
WA1-1297
3932 THOMPSON CHARLES F ●
WA3-4355
3935 VACANT
3936 MINNER JAMES ● WA4-6921
---PARK RD INTERSECTS

242

6700 LAUDERDALE WILBER A ●
UN1-5702
6950 BOWLBY KEITH W ● WA1-1700
6954 MADSEN HARRY F ● WA1-5657
6960 PAINTER HERBERT L JR ●
6964 TARWATER JAMES C ●
WA3-4134
6970 SKINNER WM B JR ●
WA3-2185
---PARK TER INTERSECTS
7600 MEIERS CLARENCE ●
WA1-2824
7601 ANWANDER MARVIN B ●
UN1-0449
7605 WARDEN LLOYD E ● WA1-3453
7608 JACOBS RICHD C ● WA1-0431
7611 GREENLEE BEN C WA1-1108
7614 THOMPSON RALPH D ●
WA3-8960
7617 SLATON GORDON ● WA4-1535
7618 BEST ERNEST W ● WA4-4285
7623 SMITH LOUIS E ● WA4-5722
7624 WALLACE DON A ● WA1-2590
7700 SMITH PAUL B
7701 RICE DAVID W ● WA3-8903
7705 VACANT
7706 BEVER GENE A ● WA1-3706
7709 JENKINS RONALD D ●
WA1-3637
7710 HOLDERFIELD LARRY G ●
WA1-9264
7714 WARRINGTON FRANK WA3-0957
7715 NELSON LOUIS H ● WA3-5263
7718 SMITH PAUL
7719 CUONEY BOB ● WA4-5613
7800 HESS ROY E ● UN1-5822
7801 NO RETURN
7804 VOSPETTE ANDRE L ●
UN1-3251
7805 SMITH CLARENCE ● UN1-3152
7809 BIRD ALBERT M ● WA1-2488
7812 PRITCHARD EARL S ●
UN1-0940
7815 COTTEN CLIFFORD C ●
WA4-6907
7816 SULLIVAN ROBT L ●
WA1-4618
7819 NICHOLAS GERALDINE L MRS
● WA4-7043
7900 MORGAN THELWOOD ●
WA1-9524
7901 HOWELL LEE L ● UN1-0820
7904 CAMBRON HUGH M ● WA4-4746
7905 FLETCHER JOSEPHINE MRS ●
WA1-3426
7908 CAYTON JOHN L ● UN1-6562
7909 WOMACK CHARLES ● UN1-2711
7912 EDWARDS JOE ●
7915 MOFFETT CHARLES E ●
WA3-2652
7916 CLAWSON THEO E ● WA4-9140
7919 MITCHELL DAVID D ●
WA3-9321
8300 ARNOLD SETH C ● WA4-6928
8301 PEARSON RALPH S ●
WA4-3244
8304 KARR STELLA O ● WA4-9118
8305 BROWN BERNICE MRS ●
WA1-1863
8308 COLEMAN GEO M
---EASTERN AV INTERSECTS
8309 WILSON JAMES E ● WA3-9526
8400 VACANT
8401 EVANS CHARLES P ●
WA1-9674
8404 SEARCY JERRY J ● WA4-3135
8405 HENDRICKS HENRY M ●
WA1-2493
8408 CASE NORMAN A ● WA3-0741
8409 LESLIE RONALD ●
8500 BROWN RICHD M ● WA3-7557
8501 BENNETT CHARLES E ●
WA3-6153
8502 GUERRERO AUGUSTINE ●
WA1-4022
8505 NO RETURN
8507 MORITZ CARL F ● WA1-0897
8508 MASON HOWARD R ● WA3-6150
8511 MOORE FRANCIS ● UN1-2475
8512 NO RETURN
8515 WHITE VOLNEY B ● WA1-7942
8516 CUNNINGHAM FRANK E ●
WA3-5324

240

---STERLING AV INTERSECTS
11200 JOHNSON LARRY E FL8-2680
11204 COX TRACY E ● FL3-1393
12005 COLBERT JOHN H ●
FL3-0598
11207 FISHER VERNIE G ●
FL3-4412
11208 LEMBERGER JOHN O ●
FL3-1209
11211 RENNER F IRENE MRS ●
11212 BELLMAN OTTO E ●
FL6-5335
11215 KERBY JOHN E JR ●
11216 MALCHOW ALFRED A ●
FL3-8810
11219 RICE JOE ● FL3-4926
11220 SIBBITT RONALD R ●
FL3-5498
11223 HARPER ROBT A ● FL3-4421
11224 HARTMAN H GEO ● FL3-4434
11227 VACANT
---CLAREMONT AV INTERSECTS
---BLUE RIDGE BLVD INTERSECTS
12003 PILEGGI ANTONIO ●
FL3-0573
12005 CALBERT JOHN H ●
FL3-0598
12007 WILLIAMS CHARLES L ●
FL6-0482
12009 LANE JOHN W ● FL6-2359

362

47TH ST TER NE

---ZIP CODE 64116

374

2600 DENISON WM A GL3-3224
2603 ATKINS BERTHA H MRS ●
GL2-6551
2606 RICHARDSON RUSSELL H ●
GL2-3509
2607 LOWE VICTOR E JR ●
GL3-1880
2610 LOWE DELMOND A ●
2615 RICHARDS JAMES R ●

GL2-3698
2616 DURLACHER DAVID F ●
GL2-3393
2619 CRANE BILL J ● GL2-6449
2622 CLARK JAMES O ● GL2-6556
2700 SPECK WALTER ●
2704 DUFFY JOSEPH L ● GL2-8031
2722 WHITEAKER E HAROLD ●
GL3-4395
2727 FARRIS EARL L ● GL2-9125
2804 AULD EDW A ●
2807 TURNER FLOYD C ● GL2-4472
2810 FANTIN DELIA MRS ●
GL2-5215
2814 JENSEN DONALD H ●
GL2-6809
2820 SNIPES KELLEY J GL3-7338
2824 VACANT
2828 ROGERS ALBERT L ●
GL2-0777
2832 MAURO SAML ● GL3-7166
3201 CANNOVA SAM ● GL2-3201
3206 LATONA VICTOR ●
3207 LINDAHL HAROLD W ●
GL2-0115
3212 SHOUR HERBERT ● GL2-5622
3213 WHITE LLOYD E GL2-0373
3218 CURTIN GERALD ● GL3-2270
3219 CARR WM T ● GL2-8709
3224 DE GHELDER JAMES J ●
GL3-4122
3225 MORTON MERVIN F ●
GL2-2398
3231 WITHROW C RAY ● GL3-0748
3237 GRAY ROBT J ● GL2-7175
3500 O'LAUGHLIN RUSSELL ●
GL3-0307
3501 TINSLEY RAYMOND E ●
GL3-7933
3504 SCHRAEDER F VIRGINIA MRS
● GL3-5554
3505 STOSI CATH H MRS ●
GL2-7756
3506 BAUMAN KENNETH J GL3-1790
3507 LYCAN ERNEST E ●
3510 MAURITZEN GLEN H ●
GL3-6057
3511 BAIRD JOHN W ● GL2-9317
3512 STEWART RICHD N ●
GL3-1738
3513 SMITH CLIFFORD G ●
3516 GLATT JOHN D ● GL3-0809
3517 WILLIAMS CHARLES R ●
GL2-2320
3518 KAUL KENNETH E ● GL2-5831
3520 BLAIR JACK P ● GL3-5802
3521 NESTER MARGUERITE E MRS ●
GL3-3411
3525 CLOUGH EVERETT V ●
GL2-8485
3600 EDWARDS LON G ●
3601 DAHILL ED ●
3609 EVANS EARL V ● GL3-4518
3610 REGAN THOS J ●
3616 CREIGHTON JAMES C ●
GL3-5716
3619 SHULL JAMES W ● GL3-5278
3622 ERBACHER PHILIP J ●
GL2-9389
3625 LA ROCCA FRANK ●
3628 LO PORTO FRANK ● GL2-2186
3631 TAYLOR JACK R ● GL3-5311
3634 NUGENT PATK H ● GL3-0115
3637 RUSSO MARIO ● GL3-5349
3640 JACKSON RICHD D ●
GL2-0141
3700 LAURENCE BENTON GL2-9127
3701 EDDINGTON JAMES M ●
GL3-1653
3708 RUSSO VITO S ● GL3-6746
3713 PERNICE RUDOLPH J ●
GL3-5840
3714 RHODES GERALD L ●
GL3-0515
3719 KATZENBERGER ROBT H ●
GL3-3377
3720 CARROLL JUSTUS G ●
GL2-6003
4600 FIELD MAX L ● GL2-4507
4603 BODE LINDLEY W JR ●
GL3-1238
4607 ASHELIN THEO G ● GL3-0322
4610 OSWALD NORMAN E ●
GL3-5889
4612 ENGLES REED F ● GL2-3714
4613 JONES EARL E ● GL2-0348
6420 FRY BILL W ● GL2-3631
4700 HAVENER WALTER L ●
GL2-1432
4703 BROWN LARRY H ● GL3-1726
4707 HART NORMAN D GL3-4513
4708 WAUGH WALTER L ●
4711 KIMBALL DANL L ●
4712 ANDERSON JAMES B ●
4716 ROBERTS MURVIN F GL2-5986
4717 HUBBELL HERBERT E ●
GL2-9032
4721 LOOS LYNN E ● GL2-2762
4800 FROST VELMA E ● GL3-1716
4801 BURRIS CHARLES A GL3-5830
4805 ROBUCK ROBT M GL3-7911
4810 SWARINGIN DAVID G
GL2-5365
4811 MOELLER JOHN R GL3-7366
4815 ABEND THOS A GL3-3271
4819 HARRIS MEADE C GL3-3063

380

5102 BOYD HAROLD E GL4-0165
5103 MC GINLEY PHILLIP L
GL3-2377
5108 VACANT
5109 SIMMONS GENE E ● GL2-9117
5120 HOARD ARTHUR N GL3-3555
5121 KING EARL L ● GL3-3216
5200 VANSKIKE HARRY A ●
5220 WHITE WM A ● GL3-6073

68

48TH ST E -FROM 4800 GRAND AV EAST

---ZIP CODE 64112
201 REES JAMES H JR LO1-9463
205 VACANT
207 JOPLIN MARVIN L JR
JE1-0406
209 JURGESON CLARA MRS ●
WE1-2544
212 VACANT
214 THOMSEN THOS S ● WE1-9413
SMOKOROWSKI PETE E
JE1-8497
215 IRONWING PHIL
216 GARTRELL MARGT H MRS ●
LO1-4809

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

48TH ST E 1966

48TH ST E--CONTD

218 KOCH KENNETH F LO1-5802
220 VACANT
---MC GEE ST INTERSECTS
301 MIDWAY FOOD MARKET
LO1-6418
301½ DICKINSON KARI M INT DEC
VA1-1958
302 GOAR BETSY C JE1-8165
2 FISH MELVIN S WE1-6391
304 FOWKS WM E PL3-2447
305 WALTON AGNES A MRS ●
PL3-4328
306 BREAUD EDWIN P PL3-6289
MILLER JAMES M WE1-8915
308 MANOS CLAUDINE R PL3-6803
VACANT
309 BYBEE OLLIE L MRS ●
PL3-4124
310 NO RETURN
311 REESE CHARLES ●
312 RAMSOUR MARY C
315 EAST LAKE APARTMENTS
VA1-4665
101 GRAY MIKE
102 RORDIN BESSIE MRS
JE1-5889
103 SHEPHERD CHAMP
104 CHENEY HAROLD D
PL3-0613
202 BLACK PERRY D LO1-0050
203 CHAMBERS ISABEL E MRS
204 WALLACE JUNE
302 STULES A
303 LANE MICHL R LO1-0937
RUSSELL ARTH H
LO1-8562
316 APARTMENTS
1 MASSMAN MARIE D JE1-4897
2 RICHMOND MERLE A
PL3-0355
3 SLAYMAKER MAE MRS
WE1-2947
4 MASSMAN ZETTIA T MRS
LO1-4384
5 HUNTER RUTH F PL3-7059
6 STEWART LUCY WE1-7916
317 EAST LAKE APARTMENTS
101 SMITH KENNETH E
201 VACANT
301 BUTEL HANK M PL3-2818
318 APARTMENTS
1 BENZENUTTI SANDRA
JE1-2821
2 TROLLINGER WM E LO1-4548
3 FLOREA CAROLYN PL3-3781
4 CALDWELL LOLETA F
4 SHRUM S KAYE WE1-2094
4 NO RETURN
5 KLINKSIG WM H WE1-5106
6 SMITH CLAIR B
319 EAST LAKE APARTMENTS
BSMT VACANT
APARTMENTS
101 VACANT
103 HEDGES CHARLES L
JE1-1271
104 BONNY MEDA M MRS
JE1-4299
203 HENRY VIVIAN E
WE1-6589
204 HALL LUCILE M MRS
JE1-2813
303 VACANT
304 SVETLECIC VICKIE
WE1-4607
321 EAST LAKE APARTMENTS
102 BURNHAM LOUISE
JE1-4112
201 ASFOOR AKIL LO1-4285
202 ZACKON HOWARD
301 NO RETURN
302 DOBBS MAURICE A DRSMKR
JE1-6076
---ZIP CODE 64110
---OAK ST INTERSECTS
---LOCUST ST INTERSECTS
---ROCKHILL RD INTERSECTS
---HOLMES ST INTERSECTS
701 EVELOFF SANDRA R PL3-3981
701½ TERRONES DELORES
703 DOERR CAROL L JE1-8752
703½ ZIEGLER DIANA JE1-3732
704 GARDNER HARRY D
PAPERHANGER ● LO1-4386
705 CARPENTER ETHEL PL3-5008
707 WHEATLEY ROSE B MRS DRSMKR
WE1-9677
DAVIS RONALD LO1-3742
708 HALSEY EARL M ●
712 PALMER STANLEY O ●
WE1-8069
715 HOGG JAMES E ● WE1-0313
716 AUSTIN WALTER S ● LO1-5068
719 PORTER ALVA L ● LO1-0172
BSMT VACANT
720 PATTERSON NELLIE A MRS ●
721 KINSER LELAND E ● LO1-5807
---CHARLOTTE ST INTERSECTS
800 NO RETURN
802 CARRAHER CHARLES E
WE1-0121
805 BYRNE PATK ● WE1-0274
808 VACANT
809 YOUNG HARRY H ● LO1-0726
811 VACANT
812 HENDRICKS DOROTHY LO1-1758
BSMT SANDERS FLORENCE A MRS ●
LO1-0099
815 HARTFORD ARMS APARTMENTS
WE1-1186
BSMT PERRY ENA
APARTMENTS
1 COOP MARY
2 VACANT
3 SPRAGUE MILDRED M
4 BALDING ESTELLA M MRS
LO1-8114
5 HAMLIN LA VONNE
6 NO RETURN
6 COLLINS EDW
20 DIXON MOLLIE MRS
WE1-6132
21 PENNICK RAYMOND
22 WHITE DELLA MRS
JE1-6116
23 COLLINS CHARLOTTE M MRS
WE1-4458
24 RUHL DOROTHY
26 DAVIS ALLAN
27 LOVELACE JOHN N
30 ALEXANDER VELMA
30 FOWLER WM H PNTR
31 STORE HERMAN
32 KEENEN FRANCES
33 SIRES MARGT P JE1-9487
34 AKERS THEO E
34 LEWIS CECIL A
35 FRIZZELL DORHLA A
LO1-8726
36 BIDSTRUP STEVEN
37 JONES BERNARD E
STREET CONTINUED
816 MAISCH EMMA D ● LO1-2065
NORRIS ROBT W JE1-9543
BSMT VAN DYK KURT
819 HARTFORD APARTMENTS
1 PHEGLEY JACK L WE1-6897
2 MURTY GEO C JE1-2927
3 VACANT
4 CRAMER WM A
5 PIERSON J R
6 HANSE CHLOE O WE1-1006
7 GROSSNICLE ORVILLE D
8 RAY JIMMY
9 DEAN MARLYN WE1-5187
10 CLAY IVAN C LO1-6838
11 MAGATHAN MARGUERITE
WE1-6282
12 MILLSTEIN GERRY
14 WARDELL HAROLD F
15 GLAZER BEN JE1-6721
16 BROWNING ELISIE M MRS
LO1-3675
17 CAREY JAMES
18 GOODWEETING MIRIAM
18 MORROW SHIRLEY
19 CAMERON R W
20 MITCHELL GARY K
21 ROBERSON JAMES
22 MAXWELL STANLEY
23 NOBEL CHARLES F
24 NORTON ROBT A
25 GRABER SHEREIL
26 TISSERLAND J BERT
27 KENNEDY DONALD
28 VACANT
29 BRADY STEVEN
30 HAMMONTREE MARIE M MRS
JE1-6520
31 JAMSON ROBERT
---CAMPBELL ST INTERSECTS
820 SMITH MIKE T ● LO1-0808
901 PULLEY BROS INC WHOL
FLORISTS WE1-1312
907 GRAH LYDIA MRS ● JE1-7787
909 VACANT
909½ HUNTER STEVEN N WE1-9860
911 HEINRICHS WM D WE1-7033
BSMT VACANT
912 COPE GEO & SONS GENL
CONTRS WE1-6324
913 SHOOK FRED JE1-6382
914 KANSAS CITY WHOLESALE
FLORISTS INC JE1-9570
915 GABERT CHARLES J PL3-8531
916 MIDDLETON APARTMENTS
101 NO RETURN
102 BRINER CHARLEEN MRS
JE1-2771
103 JEANE RAY
104 GORDON JACK C LO1-2842
201 EGGERS ELLEN Z MRS
JE1-7993
202 BOLANDER ALLEN
203 DOYLE JAMES
204 WALLACE RUBY
205 DIXON HERRON
STREET CONTINUED
917 HARRISON TRASH HAULING
VA1-5787
HARRISON EVELYN MRS ●
PL3-6917
920 VACANT
922 VACANT
922½ BEARD ARTH E LO1-3661
2 HOLLIDAY WM E PL3-6029
---HARRISON ST INTERSECTS
1000 SECURITY SAFE SERVICE INC
LO1-8000
1002 WILLIAMS DICK JEWELRY
LO1-3233
1004 ROCKHILL BAR TAVERN
PL3-9130
1006 VACANT
1008 MILLER DWIGHT AUTO
SERVICE JE1-8090
REAR G & R BODY SHOP REPR
JE1-8078
1015 PLAZA ART SCHOOL WE1-6414
TROLLEY BARN PHILHARMONIC
USED FURNITURE JE1-7143
GOLDMAN ALBERT WE1-6414
1016 CEBIS CO MFRS AGTS
LO1-0350
1018 CEBIS CO STGE
1020 CARPENTER VIRGINIA MRS
---TROOST AV INTERSECTS

94

1122 VACANT

132

---(NOT OPEN BET FLORA AV
---AND WOODLAND AV)
---WOODLAND AV INTERSECTS
1800 MICHLER ERNEST C ●
1801 MARRIOTT DEAN S WA1-6373
1803 ROGERS MELVIN L WA3-0753
1804 VACANT
1805 FOX EDW WA1-1945
1806 BRIGGS MARCIUS X ●
UN1-0258
1807 VACANT
1809 SCOURTAS CHARLES C
WA1-0695
1810 ARCURI MARY MRS ●
1811 ELMORE THERESA MRS
WA1-4856
1814 VACANT
1821 MILLS JERRY P ● UN1-0610
1824 HARMON DEBRA M
1826 IDE EARL H UN1-1446
1827 VACANT
1827½ NO RETURN
1828 CRAMER GARY W WA3-0861
1829 PADDOCK CHARLES E JR ●
WA1-3204
PADDOCK FILM PRODUCTIONS
MOTION PICTURE PRODUCERS
WA1-3204
1830 BENNETT DONALD L WA1-5276
1831 NOFFTZ DOROTHY C MRS ●
WA1-0325
1834 SIMMONS RALPH E ●
WA3-5750
1836 STUDER ERNEST E ●
WA1-9770
1838 WEST RONALD
1844 DAVIS ALVIE A ● WA4-1312
1845 VACANT
1847 ROOKS JOYCE M MRS ●
WA1-9235
---EUCLID AV INTERSECTS
2000 RENYER GERALD B WA4-4622
2008 KELLY MILDRED M MRS ●
WA3-3005
2011 DUCHARDT FREDK A IND
CONSULTANT ● WA3-8257
DUCHARDT BERTHA MRS
WA4-1364
2016 FOX LOUIS J ● UN1-1624
2020 TOLLIVER CHARLES W
VI1-4043
BSMT SNOW MYRLAND WA4-0156
2021 VACANT
2022 BOWMAN GLADYS L MRS
UN1-6049
2025 SPARKS LESLIE B ●
WA3-6958
2026 BORKOWSKI CASIMIR ●
WA4-8231
BSMT VACANT
2029 MOSS FRANCES MRS
2036 SIMPSON CHESTER W ●
WA4-6527
2037 SILVA MARIA MRS ●
UN1-5779
2040 WEBSTER MILTON R ●
WA4-7418
2041 WEDDLE GERALD E ●
WA1-2811
2045 ROSEBROOK DONALD D
WA1-3145
0246 SELLE FREDK W WA4-5509
---BROOKLYN AV INTERSECTS
---PARK AV INTERSECTS
2300 COFFMAN RICHD T UN1-2208
2305 WALCOTT EUG R ●
2308 SHORT BEUFORD E
2312 KRILLY SAML J ● WA4-1724
2315 ELLIS GEORGIA M MRS ●
WA4-4650
2317 VACANT
2317½ VACANT
2318 CASHMAN JOHN J WA3-3820
2320 WHITE JESSE C ● WA1-6483
2321 VACANT
2323 JEFFERSON MITTI B MRS ●
UN1-0263
2331 QUINT JACK K ● WA1-2318
2334 KING LUCY E ● WA4-6946
2339 VACANT

184

---SPRUCE AV INTERSECTS
---KENSINGTON AV INTERSECTS
---CYPRESS AV INTERSECTS
4502 PEELER LARRY WA1-2188
4510 BARBER JAMES F
4516 NO RETURN
NECOR SOUTHEAST BAPTIST CHURCH
---ELMWOOD AV INTERSECTS
---LAWN AV INTERSECTS (NOT
---OPEN)
---LISTER AV INTERSECTS (NOT
---OPEN)

242

7600 NORTH WARD F ● WA1-6325
7601 LAMB DONALD R ● WA4-8904
7605 ROVENSTINE DONALD H ●
WA4-2163
7606 CHILDERS HARRY H ●
WA1-4628
7609 LARKINS EARL W PNTR CONTR
● UN1-5895
7610 VACANT
7614 BARBER JAMES K INT DEC ●
WA1-2655
7615 SUMMERS ANGELA M MRS
UN1-2365
7618 FRISTOE WM L
7704 COCKERHAM REMMEL M ●
7705 WYER GEO W WA4-7231
7710 FRANDSEN PETER E ●
WA4-7834
7711 CRESIEWELL JOHN H ●
WA1-1063
7716 ZIMMERMAN CHARLES B ●
UN1-2937
7717 GIBBONS JAMES H ●
7800 NO RETURN
7801 SEATON ELBERT ● WA3-2179
7806 ROBINSON JOSEPH H ●
UN1-2913
7807 BAYLOR DALE E ● UN1-3020
7812 WILSON ROBT C ● WA4-1678
7813 JOYCE MARTIN J ● WA4-8204
7816 GORMAN THOS S ●
7817 CRETEL ROLAND H ●
UN1-0259
7900 BOYLE DAVID T ● WA1-3920
7901 WALDEN HENRY F ●
7906 ROCKERS JOHN J ● WA1-4486
7907 YOUNTS LLOYD F ● WA4-7946
7911 CLAXTON PATK J ● UN1-4608
7912 GORMAN DAVID L ● WA3-1585
7915 SMITH THOS I WA1-6658
7916 NEVES GERALD M ● WA3-0215
7919 WILES JACK L ● UN1-2808
7920 VEIDICK JAMES F ●
WA1-1265

240

---STERLING AV INTERSECTS
11201 BOLLINGER GEO ● FL6-0235
11205 MATUSIAK HENRY
11206 DUNCAN LAURENCE A ●
FL3-4637
11209 SCHROEGER EULALIA MRS ●
FL3-8910
11210 POINDEXTER JAMES G
FL3-0248
11214 NEECE MAXINE E MRS ●
FL3-0139
11215 HOLWICK HAROLD D ●
FL3-1572
11218 SILVIUS MYRON D ●
FL6-4811
11219 NYSTROM HARRY B ●
FL3-6865
11222 GARRETT GERALD G ●
11223 JARVIS DONALD E REV
FL6-7807
11226 WILLAND JOSEFH J ●
FL3-5348
11227 BLAKELY KENNETH T ●
FL3-4906
11231 ROWE JAMES D JR ●
FL6-8573
---CLAREMONT AV INTERSECTS
---VERMONT AV INTERSECTS
---NORWOOD AV INTERSECTS
11701 GERKEN JACK R ● FL6-5798
11703 KINYON RICHD L ●
FL6-5313
11706 WALKER JOHN P ● FL3-4970
11707 PILSL PAUL M ● FL3-4814
11714 LILLY LEONARD C ●
FL6-0652
11800 COSENTINO JEROME J ●
11801 WINBIGLER GLENN P ●
FL3-5540
11804 MC PHERSON EAVIN M ●
FL6-2033
11805 MAULDIN ROBT O ●
FL6-1644
11808 BRAY EARL E ● FL3-5682
11809 NO RETURN
11812 TAYLOR DAVIS D ●
FL6-3327
---BLUE RIDGE BLVD INTERSECTS
12001 HILL VICTOR A ● FL3-0330
12002 BUCKHOLTZ HOWARD J ●
FL6-2813
12003 ERICKSON CARL A ●
FL3-5602
12004 SHELTON DOUGLAS E ●
FL6-4859
12005 MOORE CHARLES E ●
FL6-1661
12006 SCOTT RAY T ● FL6-0216
12007 ANELLO JOE L ● FL6-9325
12008 HAMMONTREE DANL C ●
FL6-1378
12009 CREAGAN CHARLES A ●
FL3-8523
---WOODSIDE AV INTERSECTS

362

48TH ST NE

2018 BALLARD WM H ●
2104 SHERPY MARY L ● GL3-7463
2112 GADD ELMER E ● GL2-1793
2117 NORTHGATE JR HIGH SCH
GL3-2250
2120 MC KEEHAN RALPH A ●
GL2-8504
2128 CUTHBERTSON DAVID D ●
GL2-8501
2200 DILLINGHAM DAVID M ●
GL2-8500
2201 HARBISON VELDA B MRS ●
GL2-9622
2214 SHORT LESLIE C ● GL2-0533
2215 HUFFMAN WILLIE R ●
GL2-5720
2216 RADER EDGAR L GL2-6727
2217 HARBISON GEO H ● GL3-1695
2226 MC CARTY EDW ● GL2-6847
2323 MILSTEAD ALICE G MRS ●
GL2-2457
2325 EVANS CARL L ● GL3-2187
2401 HICKS ROBT H ● GL2-3432
2405 RUMPF FRED J ● GL3-5078
2409 MILLER RAYMOND L ●
GL2-0562
2414 BRAY JACK E ● GL2-8566
2420 SMITH GRACE P MRS ●
GL2-4363
2426 BULLIN JOSEPH H ●
GL2-4520
2432 THOMPSON VICTOR G ●
GL2-0645
2436 WORTHAM LLOYD G ●
GL3-4548
2501 GILL CLARENCE H ●
GL2-6070
2515 MC CARDIE JAMES P ●

374

3405 HARRIS ROBT M ● GL2-2706
3408 RICKETTS EARL R ●
GL2-2255
3409 MILLER PAUL R ● GL2-0857
3412 PAYNE DELORA MRS ●
GL2-1947
3413 BERGLUND LAWRENCE W ●
GL3-2045
3417 MITCHELL JACK N ●
GL3-2864
3421 LA ROCCA SALVATORE J ●
GL3-1281
3426 CONLISK ROY S ● GL3-7247
3433 GREEN BILLY D ● GL2-8965
3501 WARNOCK PETER ●
3508 HISS CLARK E ●
3509 MANLEY WARREN O ●
GL2-5975
3514 HUNZEKER HAROLD R ●
GL3-0925
3515 SAURO PETER F ● GL3-2914
3522 SUNDAL JASPER J ●
GL3-2641
3523 BOLEWSKI THADDEUS J ●
GL3-4697
3600 STINE LOUIS H ● GL3-4715
3601 ZIMMERMAN JOHN E ●
GL3-2294
3605 WILLCOTT EUG B ● GL3-2582
3606 WIRTH EUG W ● GL3-1776
3609 BOSS JAMES T GL2-7721
3610 ADAMS LUCILLE M MRS ●
GL3-4482
3618 WUSCH ROBT E ● GL3-6519
3619 O'HALLORAN JAMES V ●
GL3-4631
3624 DUNN ALLEN F ● GL3-4758
3625 COMO MARY MRS ● GL3-2625
3700 BERGLUND JOHN K ●
GL2-0595
3709 WIRES JACK H ● GL2-4010
3718 BOWER RICHD C ● GL3-2049
3719 SNELL HENRY R ● GL3-5574
3725 COFIELD EUG E ● GL3-3513
3740 MASKILL DON E MFRS AGT ●
GL3-3603
3744 ALLEN JACK H ● GL3-4970
4717 MATTHYS MARSHALL ●
GL2-4443
4800 STRONG CHESTER B ●
GL3-4800
4805 KLOMP LAMBERT A ●
GL2-6694
4806 ROBERTS GEO W ● GL2-4114
4815 FOERSTER FRED C ●
GL2-9392
HENNINGS JULIA C MRS
GL2-5313

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

PALMER DR 1966

PALMER AV--CONTD

---E BANNISTER RD INTERSECTS
9416 KING ALVAH R ● SO1-2714
9417 PLUMMER ANDERSON D ●
SO1-4076

422
---E 103D INTERSECTS
10300 TAYLOR GERALD L ●
SO1-8730
10301 HOSEY EARL J ● SO1-2767
10304 SHILT JAMES H ● SO1-0887
10305 BUDD LEROY C ● SO1-7266
10308 BABYLON MAX L ● SO1-2887
10309 NORGREN EDW ● SO1-7435
10312 HARRINGTON JOSEPH D ●
SO3-0312
10313 JONES VIRGIL C ●
10316 STOUP LEON ● SO1-8083
10317 ELMER GERALD J ●
SO3-3338
10320 COOPER JESSE D ●
10323 VACANT
10400 ANSCHUTZ HARRY W ●
SO1-8637
10403 LEAKE KEITH R ● SO1-5499
10406 RIVERA-TORRES ANGEL
SO1-4018
10409 BELCHER ORVILLE D ●
SO1-1066
10410 KACHEL DANIEL E ●
SO3-5480
10413 DENT GLEN L ● SO1-3689
10414 WILLIAMS EDW W ●
SO1-1792
10419 ROSS ROBT G ● SO1-8132
10420 KNAPP JOHN R ● SO1-8636
10423 RINEY FRED L ● SO1-2819
10424 CALEGARI BILL ● SO1-2908
10427 UNDER CONSTN
10428 DAUGHERTY ARTH J ●
SO3-0134
10501 KAYS DAVID J ●
10505 POPE LESLIE R ● SO1-7211
10506 CAMPBELL GARY D ●
SO3-1476
10509 NO RETURN
10510 NO RETURN
10511 HARP RONALD G ● SO1-4761
10514 STEIN RAY E SO1-3776
10515 HART GEO S ● SO1-8844
10518 WALTER TWILA MRS ●
SO1-2978
10519 HAPPE CLARENCE ●
10521 LITTLE FOSTER ● SO3-5373
10522 FARRIS ALF E ●
10526 YOEMANS ELMO J JR ●
SO1-1969
10527 KIRK TIMOTHY J ●
SO1-8356
10350 STEPHENS MARIE MRS ●
SO1-8202
10601 CAMPBELL WAYNE E ●
10602 VACANT
10603 ULSH ERICK S ●
10605 SYKES JOHN F ●
10606 TERRY GEO E SO3-1426
10608 VACANT
10611 VACANT
10612 LOMBARDINO CHARLES ●
SO3-2795
10615 BEER PAUL H ● SO1-6728
10616 FOLAN WAYNE R ● SO1-6010
10619 FISHER PAUL M ● SO1-4806
10620 FOLAND HAL E ● SO1-3052
10623 HECKATHORN VIRGIL M ●
SO3-3865

426
---RUSKIN WAY INTERSECTS
11202 PERRY JAMES SO3-2171
11203 SHIPMAN DAVID E ●
SO1-6718
11204 BAILEY CARL V SO3-2075
11205 MATHES WM S SO3-2884
11206 STRINGBERG ARTH E ●
SO1-1961
11207 CORUM LEE R ● SO1-9446
11208 MANLEY WM L ● SO1-0014
11209 YARDLEY SCOTTY D ●
SO1-2796
11210 DUPLE MARK JR ● SO1-4957
11211 POWELL RUTH MRS
11212 MOORE NELLE E PRIVATE
TUTOR ● SO3-0525
11213 POWELL RALPH R ●
SO1-1761
11214 ALVARADO BENJ ● SO3-2266
11215 HESTWOOD ALBERT L ●
SO1-4113
11216 FLAEGLE STEVEN P ●
SO1-4459
11217 BAILEY JAMES R ●
11218 GLIDEWELL DONALD E ●
SO3-4153
11219 ASCUE THOS W ● SO1-2459
11220 CARLSON DON J ● SO1-7691
11221 PADILLA THOS N ●
SO1-0539
11223 JASTRAM MERNITZ D ●
SO1-2774
11225 RICHARDSON ROY H ●
SO1-4232
11400 THOMPSON RAYMOND L ●
SO1-5310
11401 VACANT
11402 VACANT
11403 ROGERS BERLIE ●
11404 HOWARD DAVID K ●
SO1-3327
11405 BURK WM E SO3-3659
11406 FARR RONALD R ● SO1-9335
11407 LAIRD LARRY D ● SO3-2822
11408 SINGLETON GORDON A ●
SO1-3339
11409 CROWLEY MIKE SO3-4205
11410 RITENOUR ORREN R ●
SO3-0542
11411 BOCKELMAN PAUL SO3-2334
11412 VACANT
11413 CANNON DAVID
11414 HARTMAN GERALD W ●
SO1-2060
11415 CURLISS EDW L ● SO1-6139
11416 VACANT
11417 HUDSON BERTIE MRS ●
SO3-5726
11418 TEAFORD A R ● SO1-8477
11419 VACANT
11420 ROGERS A B ● SO1-6930
11421 LANDRY CLIFFORD J ●
SO3-0273
11422 MAXEY GEO A ● SO1-3180
11423 KENNEY CHARLES L ●
SO1-0568
11424 VACANT
11425 STAPLETON JAMES P ●
SO1-4019
11426 ALUMBAUGH CARL G ●
SO1-8569
11427 BROWN BILL ● SO3-0684
11428 SLAUGHTER ARTH D
SO1-0696
11429 WORKMAN HOBART F ●
SO1-4626
11430 EVANS IRVAN B ● SO3-0021

328
PALMER AV N -FROM 51ST STREET
TER N NORTH AND NORTHEAST

---ZIP CODE 64119
5112 HINKLE FRANCIS GL3-4289
5116 BALLINGER JAMES ●
5120 RICHARDSON JAMES E ●
GL3-2941
5123 VAN NOTE WM B ● GL2-3481
5124 CAMPBELL LON D ● GL2-3511
5128 BAILEY LARRY E ● GL3-7733
5129 EAPMON JAMES W ●
5132 OSBORN LESTER L ●
GL3-7576
5133 OLVERA WARREN H GL3-7356
5136 OLVERA JOE M ● GL3-5693
5137 SIPE RONALD C ● GL3-7312
5140 VIOLETT VERNON W ●
GL2-9037
5141 PEMBERTON JAMES ●
5144 BAGBY WALTER L ● GL2-3362
5145 ROSS DICK ● GL3-3551
5148 DULVARD LARRY E ●
GL2-2146
5149 DONOVAN WAYNE C GL3-7006
5152 SARTAIN CHARLES R ●
5153 BELT THOS J ● GL2-8020
5200 CLEMENTS RALPH H ●
GL3-0051
5201 STEWART HAROLD D ●
GL2-2643
5204 SCHEELK ORVILLE R ●
GL2-8475
5205 FANNING JAMES A ●
GL2-7687
5208 STEFFEN RICHD D ●
GL3-2298
5209 CURTIS WM A ● GL3-1665
5212 YOUNG LARRY G ● GL3-7104
5213 HEESE GARY G ● GL2-2389
5216 MC KEEVER DUANE E ●
GL3-5403
5217 BAKER T C ● GL2-2718
5221 MC KEE MICHEAL A ●
5225 PAULEY KENNETH T ●
GL2-8681
5228 VON LUE DOUGLAS L ●
5229 EAGLE JOHN S ● GL3-6574
5232 CHISAM WM K JR ●
5233 BANKSTON DENNIS G ●
GL2-2552
5236 DIXON THOMAS ●
5237 KOGER DENNIS A ● GL3-7584
5240 MASON RAYMOND J ●
GL3-5284
5300 KNIGHT THOS ● GL3-3925
5301 ELKINS WM ●
5306 MOORE CLIFTON ● GL3-1172
5309 NO RETURN ●
5310 CROCKER HARVEY F JR ●
GL3-3355
5314 BILLS JOHN C ● GL2-5866
5315 NO RETURN
5318 ROMINE PATRICK J ●
GL2-9044
5321 CLARK JAMES D
5322 GILPIN LOGAN C GL3-5515
5328 PAINTER CYRUS I E ●
GL2-9022
5329 SLAGLE VICTOR G ●
5335 ANNUNZIO JERRY F ●
GL2-1918
5336 HALL RICHD ●
5339 MC CALLISTER LELAND J JR
● GL3-4530
5342 SIMMONS GEO W ● GL3-6909
5347 JOHNSON ELMER W ●
GL3-0788
5348 JONES DON
5353 RENFRO JOHN A ● GL3-0352
5354 LOHKAMP BERNARD J ●
GL2-0206
5358 JONES PAUL K ●
5359 NEIDERLAND RONALD H ●
GL2-0345
5364 AYRES BEULAH MRS ●
GL2-8611
5365 LICATA SAML P ● GL2-8699
5368 HAWNER RICHD K ●
5369 WEBB VERNE E ● GL3-1160
5374 HAYES ROBT L JR ●
GL3-3746
5375 MAJORS JAMES E ● GL2-9278
5379 WALZ NICHOLAS F ●
GL2-1580
5380 JONES FRANK R ●
5383 CRAIN JERRY W GR2-2791
5384 GAINES MELVIN M ●
5388 PALMISANO ANTHONY J ●
GL2-5680
5390 TALLEY ROSALIE R MRS ●
GL2-1233

242
PALMER DR -FROM 4731 OZARK RD
SOUTH

---ZIP CODE 64129
4733 GORING FRANCIS J ●
WA1-1257
4800 GARRISON O A ● WA3-7758
4809 CHANDLER LAWRENCE ●
WA1-3779
5100 NICHOLS JOHN L ● WA3-1632
5101 JACKSON JAMES ● WA1-6665
5106 DUHAS HENRY E ●
5109 VAN VEEN JAY M ● UN1-2879
5110 ALLEN RALPH ● WA3-7819
5114 HENDERSON MORRIS W ●
WA1-6815
5117 CLARK LOUISE P MRS ●
WA1-6906
5118 BROWN WALTER R ● WA3-6520
5122 WHITE MILTON J ● WA4-5575
5125 TALBOT JOHN K WA4-2873
5126 LAWRENCE ALICE J MRS ●
WA3-9499
5130 HOUGH ROLLAND J ●
5131 MILLER OLIVER W ●
UN1-4754
5134 GLASSINGER LEO A JR ●
WA1-3055
5135 KISSEE JOHN A ● WA3-5673
5138 BRENNEMAN JACK R ●
5139 GANTT EDW T ● WA3-6683
5142 LYNN BETTY MRS ● WA4-4610
5143 MUNNS RALPH W ● WA1-3643
5147 SCHOWENGERDT C E ●
WA3-3861
5148 MURRAY DONALD E ●
WA4-6424
5151 LE VOTA ANTHONY C ●
WA3-3994
5154 FOSTER HARLEY M ●
5155 VACANT
5157 HARBERT JAMES E ●
WA1-9500
5159 SULLIVAN RALPH F ●
WA3-7479
5160 CLARK LLOYD E ●
5161 WISSINGER JERRY E ●
5163 EVE FRANK W ● WA3-4129
5164 PETRE DARREL R ●
5165 REID CARROL D ● UN1-4056
5168 WILLIAMS ROY O ● WA3-1396
5169 HUNTER JACK WA3-0145
5172 PIERCE FOREST L ●
WA1-2610
5173 SHELTON LEO E ● WA1-4832
5177 SANDERS BOBBIE G ●
WA3-3786
5200 STEPHENS KENNETH J ●
WA3-9591
5201 BROOKS RONALD G ●
WA4-8270
5205 BOUGHER CARL E ● WA3-1428
5206 MC KINNEY ROBT H ●
WA3-0015
5209 FARMER CLARENCE T ●
WA1-1491
5210 BURTON JERRY ● WA3-4009
5614 UNDER CONSTN
5618 ROSE ARTH L ● WA1-8172
5619 PEARSON JOSEPH W ●
WA4-2280
5624 PEARSON ELVIN B ●
WA3-4496
5625 SAWYER GLENN W ●

238
PALMER ST -FROM 7800 US HWY 40
SOUTH

---ZIP CODE 64133
---E 33D INTERSECTS
3305 BOWLES EARL R WA4-7031
3307 WILLIAMSON LOWELL ●
UN1-4560
3309 GASS EFFIE J MRS ●
WA1-9847
3310 LITTLE ARTH L WA4-8353
3311 JORDON WM
3313 STILES DEBBIE WA3-2249
---E 33D STREET TER INTERSECTS
3315 FORD JAMES ●
3316 NO RETURN
3317 PAYNE KALE T ●
3319 GOTH EHRLE F ● WA1-9076
3320 NO RETURN
3328 DE PRIEST ANGEL WA1-9067
3330 NO RETURN
3332 WARE JAMES H WA3-0119
3334 SURFACE ARTH F ●
3336 FRAZIER WM
3338 FRITTS DEWEY D UN1-5689
3340 NEWTON ROBT I ● WA1-6442
3342 LEACH JIMMY D WA1-7867
3344 ROTH CHARLES C WA3-0709
---E 34TH ENDS
3431 SNAPP LOWELL WA1-5380
3432 ANDERSON EUG R
3433 HOTINGER WILTON A JR
WA4-7287
3434 MURRAY JAMES A ● WA1-0984
3435 VACANT
3436 GEORGE ELDON D ● WA4-4279
3437 FREEMAN DAVID H
3438 VACANT
3440 LEACH JOHN H WA1-4499
3442 HEARD FLOYD WA4-3519
---(NOT OPEN BET S 34TH AND
---S 35TH)
3501 DAWE CARL F WA4-6204
3502 ANDERSON JAMES G ●
WA4-0518
3503 DAVIS HARLEN W
3504 VACANT
3505 MC GUIRE WOODROW WA4-3090
3506 HOFSTETTER HOWARD D ●
UN1-4638
3507 HICKMAN JOHN D
3508 LIVELY CHARLES J
3509 ALLEN CARL E
3510 ERWIN ISABELLE MRS
WA1-5368
3511 WRISTLETHWAITE J B ●
WA1-3678
3512 ROULSTON KENNETH ●
3514 WILSON FRANCES MRS
WA3-0176

238
PALMER STREET TER -FROM 1 BLK
EAST OF E 35TH EAST

---ZIP CODE 64133
---E 33D INTERSECTS
3306 RAYBOURN JOHN R ●
WA1-4827
3308 SADOWSKI WALTER J
3310 ROSE HARLEY H ●
3312 ROSE TERRY ● WA3-3205
3314 COOPER ROBT E WA1-2565
3316 CORD JIM
LANDRETH BRYAN T
3318 MORETZ MILAND ● WA3-1221
3320 CALLAN RICHD B
3330 VACANT
3417 SHAPLEY R P ●
3419 BIEGELOW WALTER ●
3421 MABRY ANTHONY K ●
3422 JOHNSON HARVEY M ●
WA4-2127
3423 ROBINSON DAVID O
3424 GARCIA JOHN JR WA3-1852
3425 ASH GEORGE F WA1-8901
3426 THEISEN JAMES D ●
3427 DULL JAMES W WA1-2770
3428 VACANT
3429 RHOADS ROBT J WA1-8428
3430 BURKE B L
3431 ASHFORD LAVINA MRS
3432 GRIMM WM B ● UN1-2405
3433 WATTERS JOHN S ●
3434 WILLIAMS S EVERETT ●
WA4-3211
3435 MOORE DORIS B MRS
WA1-4565
RUSSELL MARRIAM F MRS
WA1-4565
3436 DOGGETT MORIE E MRS
3437 RHODES HARRY W WA1-3111
3438 WALKER EUG A WA3-6594
3439 DOZIER RUSSELL W WA1-0470
3441 CARTER MONFORD
3443 VACANT
---E 35TH INTERSECTS
3500 WALKER PAUL H WA1-1065
3501 HERN DAVID WA4-3329
3502 HALL JAMES B
3503 GULLEY CHARLES C
3504 NO RETURN
3505 DAWSON W D ●
3506 SAVAGE BETTY MRS
3507 BAKER ROBT ●
3508 BIRD M P MRS
3509 PACKHAM GLENN A ●
WA1-0288
3510 WILLIAMS JOHN A
3511 CORKINS ORLANDO J ●
WA1-8373
3513 MACOMBER CHARLES A ●

220
PALOMA ST -FROM OPPOSITE 3038
DRURY AV EAST

---ZIP CODE 64128
5500 AMES ASA H JR ● WA1-0529
5501 ALBAUER HERMAN F ●
WA1-9020
5505 MULNIX WM H ● UN1-2583
5506 KOELLING IRVIN E ●
5508 WILLIAMS JULIE V
5510 YOUNG CHARLES R WA4-8711
5515 ANDERSON LAURA F MRS
WA1-5508
5522 PATE CHARLES H ● WA1-8019
---OAKLEY AV INTERSECTS
5600 AUFDERHEIDE EDW ●
SMITH HERBERT L WA4-8688
5601 MITCH'S MOVING & STORAGE
MITCHELL ERNEST B ●
5605 OSWALD MARIE WA3-0807
5606 MILLER GEO F REV ●
WA1-3600
5608 KIPPER RAYMOND A ●
WA3-8470
5609 ALFORD WALTER J ●
WA1-0834
5611 GORHAM ANN B MRS ●
WA3-5942
5612 STUDYVIN THOS R ●
WA1-2548
5615 BADGER MAURINE ● WA1-1820
5619 WILEY DURWARD M ●
WA4-7540
5621 WOODWARD ROBT C JR ●
WA4-8280
WOODWARD R C CONSTRUCTION
CO WA4-8280
5624 WILPER HAROLD E ●
5625 PARKER LESTER F ●
WA4-5131
5627 FRANCIS JACKIE R
5633 ROBERTS THOS ● WA4-4399
5636 HORTON LARRY L WA1-5416
5637 VACANT
---TOPPING AV INTERSECTS
5640 COLE JOHN H WA1-4550
5641 CUNNINGHAM DONALD D ●
WA4-6334
5714 BISBEE DONNIE D ●
WA4-3912

120
PARADE THE -FROM PASEO TO
WOODLAND AV FROM E 15TH TO E
18TH

---ZIP CODE 64106

152
PARK AV -FROM 2300 ST JOHN AV
SOUTH

---ZIP CODE 64124
101 PENNACCHIO JOSEPH R ●
HU3-6417
107 NELSON CARL E ● CH1-3588
109 HON CHRIS L ● CH1-3573
111 HACKETT ROBT D ●
113 BRANCHINO ANNA MRS
CH1-0291
GENSLER SHERMAN L
114 MISTRETTA PASCALE ●
GR1-7961
115 LANE EDW
LANFRANCA TOM
117 VACANT
119 TAYLOR HARRY C ● CH1-5556
120 VENTO JENNIE ● GR1-2959
121 GENSLER CHARLES S CH1-5595
122 MATTUCHI MILLIE MRS ●
BA1-5860
124 VACANT
126 DICKERSON CORDIS
MILLARD WALTER E
135 BATTAGLIA JOSEPH A ●
BE1-5072
---PENDLETON AV INTERSECTS
203 FORTE GRACE M MRS ●
CH1-6397
205 ANDREWS FRANK L ● CH1-8721
207 MEDINA KANUTO R ● BE1-1444
208 IMPERIALE BENNIE ●
GR1-0182
209 GIGLIO SALVATORE ●
HU3-0736
212 BERBIGLIA NADINE ●
GR1-2663
FONTANA SAM R BA1-7186
213 WELCH WARREN W ● BE1-3681
216 VACANT
217 BALESTRERI ANTHONY L ●
CH1-2266
WIGINGTON LEWIS R CH1-0658
221 GIAMALVA VIRGINIA MRS
HU3-8214
224 VACANT
225 BATTLE CLARENCE ● CH1-3284
WHEELER WM CH1-1989
229 PUCKETT JAMES F HU3-0592
BATTAGLIA TONY CH1-0236
---LEXINGTON AV BEGINS
---MINNIE INTERSECTS
313 D'ANGELO JOE ● BE1-7078
314 SPITALERI JOSEPH ●
CH1-5108
316 SHORTINO FRANCES MRS
CH1-4739
319 VACANT
321 MIDKIFF DANNY CH1-1567
323 ARMATO SAM ● HU3-3751
324 SCARCELLO ANTHONY G
HU3-0565
324A PERNICIARO JOSEPH
CH1-0800
325 MISTRETTA ROSE MRS
CH1-8160
328 BATTAGLIA FRANK CONTR
PLASTERER ● BE1-4868
330 BERTUGLIA NICHOLAS
334 ZACCOGNINO LORENZA MRS ●
VITORINA ROSALINE MRS
336 DI MAO LOUIS ● BE1-4330
338 TARANTINO SAML S
340 TARANTINO PETER ●
---ELMA ST INTERSECTS
401 DONELSON JAMES T BE1-2754
403 AGRUSA NICK ● BE1-5230
408 TUSA PIETRO ● HA1-0992
410 BOUT BERNARD H ● HA1-2891
MORMINO JOHN HA1-1572
413 CUCCHIARA MIKE GRO ●
HU3-1130
414 LA BRUZZO MAMIE MRS ●
HA1-8083
416 BARRESI LEO M ● GR1-6427
421 NO RETURN
425 SANTORA MIKE BE1-0265
---AMIE INTERSECTS
500 VACANT
503 CASAS JESUS C CH1-3266
504 CONFORTI RONALD G VI2-2179
SIRNA JERRY J BA1-6069
506 CAVALLARO CARLO BA1-2950
510 FERRARI DIXIE L MRS ●
BA1-4726
511 LOGIUDICE TONY ● BE1-1436
512 BUCCERO ROSE MRS ●
GR1-1547
513 MICELI SAML ● CH1-8939
515 ZUCCOTTO SAML ● BE1-6377

TP	Adjoining	Source
-	✓	R. L. Polk and Co.

RICHMOND AVE 1966

443

REED JAMES A RD--CONTD
8044 BARNETT LUCILE H MRS ●
FL6-9289
8045 GANN HERBERT H ● FL3-7307
---E 81ST ST INTERSECTS
8101 SMARDO FRED L ● FL6-5353
REAR VACANT
8111 BIRD BILL D ● FL3-7265
8115 ATKINS JAMES R ●
8119 BERRY RUTH MRS ● FL3-5613
8126 MULLINS JAMES L JR ●
FL3-3720
8132 HULETT ROSA MRS ●
FL3-4097
8137 OGLE THOS M FL3-2937
8139 BEARD EARL E ● FL3-4096
8144 MEHL CLEMENS H REV
FL3-8161
---E 82D ST INTERSECTS
8221 SMITH FRANK M ● FL8-2518
8223 DE BOER HENRY ● FL3-3203
---BLUE RIDGE BLVD EXTN
---INTERSECTS
8511 HARTIN THOS L ● FL6-3554

428

---E 87TH INTERSECTS
---E 89TH INTERSECTS
---E 89TH ST TER INTERSECTS
---E 90TH INTERSECTS
8800 DAVIES JAY F SO3-5977
8802 VACANT
8804 VACANT
8806 EGENDER JAMES J ●
SO3-3857
8808 VACANT
8810 HAMMONS JAMES H ●
SO1-9840
8812 VACANT
8814 VACANT
8818 THURMAN JERRY C ●
SO3-5634
8820 METZ CARL E ● SO3-4578
8822 LOHR ROBT D SO1-8982
8904 KIEFER CLARENCE A JR ●
SO3-4122
8918 BRADFORD TERRY H ●
SO3-5652
9004 NO RETURN
---SYCAMORE WAY INTERSECTS
9014 VACANT
---E 90TH ST TER INTERSECTS
9025 CRONLEY RICHD L ●
SO1-3735
9026 KENNEY HERSCHEL D ●
SO3-1377
9027 HOMAN EARL W SO1-1138
9028 GALSTER GEO E JR ●
SO1-2365
9029 CRONLEY WILLIAMS P ●
SO1-8503
9030 KURTZ GEO H ● SO3-3632
9031 DAVIS GEO W ● SO1-3308
9033 ALLEN JOHN W ●
---E 91ST INTERSECTS
9101 WILLIAMS OSCAR ●
9103 GRISSOM HARRY ● SO1-4219
9105 POPALISKY J ROBT ●
SO1-1979
9107 SULLIVAN JOSEPH M
SO1-8761
9109 CHESNEY JACK W ● SO1-6099
9111 BURTON CLAVIN J ●
SO1-1710
9113 WILKINS ROGER ● SO1-8740
9115 SMITH JAMES R ● SO3-3487
---E 91ST ST TER INTERSECTS
---E 92D INTERSECTS
9201 O'NEAL PHILLIP ● SO3-2914
9203 BOMAR WM A ● SO1-4947
9205 HUMPHREY CARL ● SO1-6893
9207 GARVIN RALPH V ●
9209 HOWLAND WALTER W ●
SO3-3833
9211 GATTENBY KEITH D ●
SO1-1805
9213 VACANT
---E 92D ST TER INTERSECTS
---E 93D INTERSECTS
9303 HACKETT ROBT L ● SO3-5070
9305 REED LLOYD R ● SO1-9495
9309 VINYARD WM H ● SO3-3624
---E 93D ST TER INTERSECTS
---E BANNISTER RD INTERSECTS
9420 SAINT LUKES METHODIST
CHURCH SO1-9144

420

---E 96TH ST INTERSECTS
COR TRUMAN HARRY S SCHOOL
SO1-2073
9701 PARISH CHARLES L ●
SO1-6361
9711 BROWN ROBT G SO3-5274
9723 CARTER C LEROY SO3-2119
9801 IIAMS WM C ● SO3-2949
9803 KENYON CARL C SO3-4104
9805 CULBERTSON BOYD T ●
SO3-4429
9807 SCOTT CHARLES S ●
SO1-2951
9809 MC CRACKIN GLEN F ●
SO3-1641
9811 WEISS JEROME R ● SO1-3502
9815 VACANT
---E 99TH ST INTERSECTS

303

REIGER RD NW -FROM NW 68TH
NORTH WEST

---ZIP CODE 64118
---W 72D NORTH INTERSECTS
1003 FRANS HARLEY J ● GE6-3894
1040 CASHIN JOE GE6-3255
1125 VACANT
---BAUGHAMM RD BEGINS

499

6901 L*HOMMEDEIU R F ●
6908 VACANT
7109 THOMPSON GUY O JR
GE6-2109
SMITH ROBT F SH1-1822

515

REINKING RD NE

---ZIP CODE 64156
CARLTON ERNEST B ● ST1-0142
LONG BILL C ● ST1-3217
WAGNER KELLY ● ST1-0145
WALKER JOEL ST1-2544

517

MILLER EDW J ST1-5981

446

RHINEHART RD -FROM LEE'S
SUMMIT RD WEST AND SOUTH

---ZIP CODE 64139
---LITTLE BLUE RD INTERSECTS
BRIZENDINE HAROLD T
KELSO PHILLIP L ● IN1-7762
8141 PITT FRED D ● IN1-7985
---TURNER RD INTERSECTS
LOONEY HENRY S
SANDERS L J BR1-1523
8300 CASE FOREST E ● BR1-2979
---E 87TH ST INTERSECTS
8801 MURRAY WM M BR1-1402
8835 BOIN JERRY ● BR1-2103
15101 WALTER MELVIN L ●
CL4-5068
---CITY LIMITS
15301 KETLEMAN TOM L CL4-1444
15315 CHRISTIAN FLOYD T ●
CL4-5369

105

RICHARDS RD -FROM 1 BLK SOUTH
OF W HARLEM RD (HARLEM)
NORTHEAST. 1 WEST OF BC&QRR

---ZIP CODE 64116
10 TRANS WORLD AIRLINES INC
GR1-1440
70 AIRPORT AUTO PARK NO 1
HA1-9452
100 MUNICIPAL AIRPORT GR1-4400
AIRPORT BARBER SHOP
AIR TRAVEL INSURANCE CO
VI2-9223
AMBASSADOR CLUB GR1-4100
BRANIFF INTERNATIONAL
AIRWAYS INC TICKET OFC
GR1-2606
CENTRAL AIRLINES BA1-3192
CONTINENTAL AIR LINES INC
RESERVATION OFC GR1-3700
CONTINENTAL AIR LINES INC
TICKET OFC GR1-2212
DELTA AIR LINES INC TICKET
OFC
FOUR WINDS RESTAURANT
GR1-4490
FRONTIER AIRLINES VI2-6256
GILBERT JOE GIFT SHOP ●
GR1-4490
LIONS DEN BAR BAR
MAGIC CARPET COCKTAIL
LOUNGE GR1-4490
NATIONAL CAR RENTAL
GR1-2755
OZARK AIR LINES INC TICKET
OFC GR1-1776
TRANS WORLD AIRLINES INC
CENTRAL BASE GR1-4400
TRANS WORLD AIRLINES INC
TICKET OFC GR1-4400
UNITED AIR LINES INC
GR1-8100
WEATHERVANE COFEE SHOP
RESTR GR1-4490
110 BRANIFF INTERNATIONAL
AIRWAYS REGIONAL OFC
HA1-0178
130 AIRPORT AUTO PARK NO 2
HA1-9481
250 CITY DEPT OF AVIATION
BA1-1400
300 AVIS RENT-A-CAR BA1-5585
GILBERT JOE NORTH SNACK
BAR
US AIR CARRIER DISTRICT
OFFICE NO 33 HA1-0135
HERTZ RENT A CAR BA1-6455
310 MUNICIPAL AIRPORT NORTH
TERMINAL BUILDING
400 CITY AIRPORT OPERATION
GR1-4946
US AIRPORT TRAFFIC CONTROL
TOWER BA1-4487
US RADAR MAINTENANCE
GR1-8256
420 MUNICIPAL AIRPORT PARKING
STA
500 US POST OFFICE AIRMAIL
TRANSFER GR1-4608
600 BRANIFF INTERNATIONAL
AIRWAYS INC MTCE SHOP
GR1-3708
BRANIFF INTERNATIONAL AIR
CARRIERS
800 MUNICIPAL AIRPORT FIRE
STATIONS VI2-9149
836 UNITED AIRLINES INC AIR
FRT GR1-8100
838 AERO MECHANICS SCHOOL
GR1-8085

216

RICHMOND AV -FROM 7519 E 12TH
SOUTH

---ZIP CODE 64126
---E 13TH ENDS (NOT OPEN)
---TRUMAN RD INTERSECTS
---E 16TH INTERSECTS
---E 16TH STREET TER
INTERSECTS
---(NOT OPEN)
---E 17TH INTERSECTS
---E 18TH INTERSECTS

242

4726 ELLMAKER CHARLES F ●
WA3-4202
4730 WOOD JOHN L ● WA3-8073
4734 ALLISON LARRY N ●
WA3-6716
4738 COBERLEY WILBUR J ●
WA4-2205
4800 MILLER CHARLES H ●
4804 RENDON PHILLIP D ●
WA4-6067
4808 HAMMONTREE JAMES F ●
WA4-0558
4812 CAGLEY DOUGLAS K ●
WA3-3208
4816 WILSON GLENN H ● WA1-0833
4824 SEAGRAVES JAMES B ●
WA1-3323

244

---ZIP CODE 64133
6315 WHITE INA MRS ●
6319 HOLLINGWORTH F E ●
FL6-5416
6323 SPECKMAN GEO H ● FL3-8789
6324 STRINGER HERMAN L ●
FL6-3745
---E 64TH INTERSECTS
6404 WOLF AUGUST F ● FL3-2437
6407 LAPHAM J HOWARD ●
FL3-7948
6420 YOUNG CHESTER E FL3-5740
6424 GOOD FRED ● FL6-0272
6432 BROWN WM J ● FL3-7602
---E 65TH INTERSECTS
6500 KASIAH EDWIN L ● FL3-2301
6501 PARSONS ROBT L ● FL6-2417
6503 RAYMOND THOS D FL6-8770
6505 YATES HAROLD E ● FL3-9885
6507 CLAYTER HERBERT ●
FL3-4630
6513 YATES JAMES T ● FL3-7179
6517 VACANT
6523 TOWNER JOHN FL6-0144
6524 SCOTT W D CONSTRUCTION
CONTR FL8-0591
SCOTT WALTER D ● FL8-0591
6601 VACANT
6603 VACANT
6605 HARDENSTINE ROY ●
FL3-2874
6609 MC CLURE NELLIE M MRS ●
FL3-3696
6615 WOLFE EDDIE D
---E 67TH INTERSECTS
---DEAD END

246

---E 67TH ST INTERSECTS
6706 WALL VIRGIL W ● FL3-7793
6708 FIELDS LEWIS L ●
6709 ANDERSON CATH MRS ●
FL6-5257
6710 ZIMMERMAN HAROLD E ●
FL6-6879
6711 STOFFER MARY E ●
6714 ALDRICH JAMES
6716 MORRIS LAVELLE R MRS ●
FL6-1631
6720 KROGER RICHD D FL8-0887
6723 JENKINS HERMAN D ●
FL6-1674
6725 TOMICH MATT J ● FL3-3285
---E 68TH ST INTERSECTS
6800 WEBER HERMAN ● FL6-8518
6801 ROSE MARGT L MRS ●
FL3-1898
6802 WALKER LESTER J CARP
CONTR ● FL8-2816
6804 ANDERSON JOHN L FL6-5035
---E 69TH ST INTERSECTS
6900 HAWKINS GEO C ● FL3-2899
6901 HARVEY LAWRENCE E ●
6902 FERNEY HERBERT C JR ●
FL3-0261
6903 STEWART MARIE O MRS ●
FL3-5783
7144 VACANT
---GREGORY BLVD INTERSECTS
7200 FATINO TONY A ● FL3-0833
7204 HILER BOB J ● FL3-9727
7205 SPANGLER F EARL ●
FL3-2374
7208 KING PAUL G REAL ESTATE ●
FL3-6836
7209 ROBERTSON KENNETH K ●
FL3-7233
7211 SHEAHON JOHN A ● FL3-2220
7212 CONRAD CHARLES M ●
FL3-8942
7215 VAN DEUSEN EDW I ●
FL6-2889
7216 SMITH MYLIN C ● FL3-5247
7220 GRAF RODNEY L ● FL3-4122
7211 DE VERA FRANK
---E 73D ST INTERSECTS
---ZIP CODE 64138
7520 DRYER DAVID R FL6-6855
7524 SPIZZIRRI JOSEPH E ●
FL6-0722
7528 KAPPEL TONY ●
7532 BROWN ROBT G ● FL6-5435

418

---FAIRWOOD DR INTERSECTS
9313 BRATCHER WELBA H ●
SO1-2441
9314 WINKFIELD CLIFFORD E ●
9315 PLANTE ROBT H ● SO1-4094
9316 CAMPBELL JAMES M ●
SO1-1562
9317 SCARDINO M F ● SO1-0814
9318 VEACH BENJ W ●
9319 WINDERS DALLAS C ●
SO1-0746
9320 WISDOM W CARL ● SO3-1466
9321 SELLER DONALD E ●
SO1-3354
9322 HAWKEY ALF S ● SO3-1406
9323 SAYERS CHARLES R ●
SO3-2838
9400 PREWITT RONALD E ●
SO3-2394
9401 NO RETURN
9402 WINZENRIED FREDK D ●
SO1-9402
9403 GRAVES A G ● SO1-6707
9404 ROBERTS CHRIS B ●
SO1-0087
9405 THURNAU GAILEY E ●
SO1-1501
9406 ZUCK WILLARD A ●
9407 LECUYER GORDON F ●
SO3-0675
9408 LUM WM ● SO1-3146
9409 OBERHOLTZ DONALD E ●
SO3-1347
9410 KIRK HAYDEN L ●
9411 BENIFIELD DICK
9412 SIMMONNS JAMES D ●
SO1-9408
9413 AKINS RONALD L ● SO1-1730
9414 REITER JULIUS G ●
SO1-3250
9415 MOFFETT C RICHD ●
SO3-0528
9416 WEINSEN W DONALD ●
9417 WHITLEY FRED K ● SO1-0626
---E BANNISTER RD INTERSECTS

420

---KEMPER RD INTERSECTS
9600 HOLLOWAY BILL F ●
SO1-1573
9605 BRASWELL HOMER L ●
SO1-5155
9607 FIELDS STAN M ● SO3-1132
9608 MARVIN MARY E MRS ●
SO3-2793
9609 ARNONE JOSEPH J ●
SO1-5539
9612 HALL RONALD G ● SO3-0532
9615 MOORE W FREDK ● SO1-3545
9700 RANDOL RICHD L ● SO1-8453
9701 VACANT
9704 WASSON IRL B JR ●
SO1-0538
9705 MOORE JAMES B ● SO1-2163
9708 FOSTER JOHN M ● SO1-4987
9710 CREECH HARVEY R JR ●
SO1-1397
9712 NOONAN PAUL A ● SO1-1771
9713 HAMPTON JUSTIN R ●
SO1-2162
9714 LUTON RAY A ● SO3-2776
9715 DURBIN WM L ● SO1-0959
9717 COOK RICHD M ● SO3-3299
9801 TIMMONS LAWRENCE D ●
SO1-1245
9804 HAMMER CLIFFORD J ●
SO1-6234
9807 MOORE CLAUDE ● SO1-4477
9808 JEANS BRUCE L ● SO3-2995
9809 BRAY JESSE H MFRS AGT ●
SO3-2745
9810 WILLIAMS ROBT A ●
SO3-3271
9812 CAMPBELL ROBT F ●
SO3-1169
9815 KORHUNIAK TONY F ●
SO3-3631
9816 BENNESON JOHN R ●
SO1-6232
9819 WALKER HERSCHEL H
SO3-5655
9823 TODD ALLEN G ● SO3-5759
9900 LASWELL HALE ● SO3-1237
9904 KEESLER MERVIN H ●
SO1-3954
9924 BRADLEY A LEE ● SO3-1559
10000 ANDERSON AUBREY L ●
SO3-5794
10004 THOMPSON KENNETH L ●
SO3-2309
10012 MILLER ROBT G ●
10013 UNDER CONSTN

422

---E 103D INTERSECTS
10300 SMITH CARL E ● SO1-9384
10301 WELLS CONNIE ● SO1-1475
10303 EMERSON FRANKLIN I ●
10304 VACANT
10308 ELSASSER DELBERT G ●
SO1-0271
10309 RAPP DUWAYNE H ●
SO1-7401
10311 CLYMENS HAROLD D ●
10312 RAKOSKI JOSEPH T ●
SO3-3693
10316 FAUGHN JOHNNY L ●
SO3-4527
10317 GICANTE JOHN B JR ●
SO1-0337
10320 KRANTZ JERALD D ●
SO1-5323
10323 HENSON JAMES E ●
SO3-5469
10324 WALKER ROBT J ●
10401 VACANT
10404 BURTON ROBT R ● SO1-4454
10405 DUDLEY BOYD
10408 RENFRO L JR ● SO3-4239
10409 CAFFEY HERBERT E ●
SO1-0854
10412 WILLIAMS V H ● SO1-5680
WELBORN EDW R SO3-4355
10413 SANDERS WALTER L ●
SO1-0710
10417 VACANT
10418 KOMER ERNEST ● SO3-2333
10420 COMFORT HARLEY L ●
SO3-1410
10421 LIBBY E W ●
10424 ZACHARY CECIL E ●
SO1-1138
10425 RICHARDSON LOREN L ●
SO3-5097
10427 RUSSELL THOS O ●
SO1-5728
10428 ANDERSON KENNETH E ●
SO1-3373
---E 105TH INTERSECTS
10500 MORETINA DONALD F ●
SO1-2482
10501 RICKEY EMERAL L ●
SO1-6740
10505 CLARK LARRY
10506 WINFIEL CHARLES A ●
SO1-2744
10508 JOHNSON RALPH ●
10511 TWADDELL LORAN J ●
SO1-2777
10512 WATKINS DONALD E ●
SO1-1159
10515 VACANT
10516 WOOLERY ELTON C ●
SO3-1071
10519 EGGERS LLEW H ● SO3-1063
10522 NEITCH JOHNNIE J ●
SO3-1595
10523 THOMAS OTIS E JR ●
SO1-2019
10524 MEANEY MICHL J ●
SO1-7131
10600 NO RETURN
10601 VACANT
10604 ALLEN R J ●
10605 ALDRIDGE RONALD A
SO3-5834
10607 MATHEWS FRANK J ●
SO3-2771
10608 SADE LONNIE S ● SO1-8144
10609 NO RETURN
10610 LENOX MAX J ● SO1-6582
10611 SMITH RAYMOND H ●
SO1-0275
10612 LUSBY JOHN B ● SO3-1611
10619 PARKER ELMER G ●
10622 WINNINGHAM JACKIE D ●
SO3-1687
---E 107TH INTERSECTS

426

---E 114TH ST INTERSECTS
11400 HENDERSHOT THURL E ●
SO1-6631
11401 FINNE JOHN W ● SO1-8558
11402 MORGA JOHN S ● SO1-1187
11403 WIRT RICHD E ● SO1-8983
11404 EDWARDS OLIVER H III ●
SO3-0673
11405 ANDERSON LEROY ●
SO1-8987
11406 BLINZLER ED J ● SO1-6795
11407 STOWELL ROY L ● SO3-1345
11408 NIELSEN EVERETT D ●
SO1-0671
11409 OZBURN ALBERT H ●
SO3-2339
11410 PHILLIPS JAMES D ●
SO3-1004
11411 YOUNG WM E ● SO1-3353
11412 BROWN IDABELLE MRS ●
SO1-4846
11413 PETERSON CHARLES N ●
SO1-2103
11414 RHOADS LAWRENCE E ●
11415 VACANT
11416 PARKER EDW H ●
11417 BASKIN JAMES L ●
SO1-0642
11418 RILEY OTIS J ● SO1-8120
11419 CORNISH IRENE MRS
SO1-4974
11420 BRAY WILLARD W ●
11421 KILGORE GLENN D ●
SO1-5264
11422 VACANT
11423 HAILEY DONALD D SO3-3034
11424 HECKART GLENN M ●
SO1-2808
11425 BOONE RICHD S ● SO1-8315
11426 MC DONALD WM H ●
SO3-3831
11427 JONES KENNETH D ●
SO1-7079
11428 SKAGGS EUG L ● SO1-8577
11429 LINES RICHD F ● SO1-7239
11430 LE PAGE DORIS MRS
11431 MILUM GLENN V ● SO1-4083
11432 YOUNG HENRY H ● SO1-5520

OZARK RD 1961

ORCHARD RD—Contd
11332 Chitwood Ferd L ◎ SO1-1739
11400 Denison
11401 Fromhold Harriet ◎ SO1-5535
11403 Sanford Chas R ◎ SO1-8591
11407 Owings D L ◎ SO1-5022
11415 Etem Chas A ◎ SO1-7379
11416 Kotsifakis Pete G ◎ SO1-3514
11418 Hembree Wilson ◎ SO1-5081
11421 Lower Kenneth R ◎ SO1-7795
E 115th intersects

152
ORD—From 2215 Lexington av south to Amie
300 Jurkiewicz Anthony
Farris Orville G
302 Fisher Jennie
bsmt Childs Reva B Mrs
304 Fowler Mildred A HA1-6615
bsmt Davenport Geo B GR1-0973
305 Beelie James M
306 Danubio Patsy ◎ GR1-5459
307 Mormino John ◎ GR1-2357
309 Cropis Sam ◎ VI2-4049
Minnie intersects
313 Loria Anthony ◎ HA1-0775
314 Adams Benj A ◎ piano tuner
315 Lucito Saml J HA1-4388
316 Armato Carl ◎ BA1-1594
Lamento Ruth R Mrs
Hayes Viola M Mrs HA1-0602
317 Vallacqua Rose Mrs BA1-9381
318 Correnti Jos ◎ VI2-1914
322 Lewis Fred N ◎ HA1-8082
325 Tittone Jack R VI2-6348
Gianchino Wm J HA1-4391
326 Ancona Phillip P ◎ HA1-8479
327 Serrone Louis J ◎ HA1-5694
328 Cacioppo Marie Mrs ◎
HA1-6973
329 Serrone Frank J BA1-5526
Giorano Lena Mrs ◎
BA1-5526
330 Serrone Angelo J HA1-7231
333 Bartolotta Geraldine Mrs ◎
BA1 3813
Bartolotta Marilyn Mrs
BA1-3813
334 Fontana Frank F ◎ VI2-3753
337 DiGiovanna Florence B Mrs ◎
339 Vacant
Elm intersects
Amie intersects

438
OSAGE—From E 50th south 5 east of McCoy
5000 Under Constn
E 51st intersects

440
OSBORN RD—From 1 blk west of Norfleet rd south
5910 Robinson Omer L ◎ FL6-5980
5911 Haney T J ◎ FL6-5827
5912 Martin Loren A ◎ FL3-9896
5913 Hutchens John L
5915 Nimmo Forrest H ◎ FL3-2360
5916 Landes Kenneth R FL6-4463
5929 Stewart Kenneth M ◎ FL6-5934
6008 Kennedy Robt E ◎ FL3-4510
6009 Lomax Marion E ◎ FL3-1707
6011 Whitlow Wm M ◎ FL3-1489
6012 Hicks Ralph L FL3-7954
6015 Strahan Joseph D jr ◎ FL3-6136
6016 Chronister Manuel L ◎ FL3-6477
6018 Peters Kenneth E ◎ FL6-4517
6019 Murry Adelbert

248
OVERHILL DR—South from 8300 E 83d to Oldham rd
8316 Austin Vivian P ◎
8319 Frost Orville D ◎ FL6-0037
8335 Smith Dwayne C ◎ FL3-3736
8365 Schmidt W F ◎ FL3-2981
8376 Smith Robt ◎ FL6-4108
8388 Zebarth Ralph S ◎ FL3-3981
8400 Ganley Wm C ◎ FL3-1500
Oldham rd intersects

242
OVERTON AV—From 9700 E 47th south 1 block
4709 Vacant
4715 Vacant
4716 Vacant
4719 Vacant
4722 Vacant
4723 Under Constn
4726 Vacant
4727 Under Constn
4732 Goldsworthy Marcell M ◎
FL6-3113
4736 Piper Donald L ◎ FL3-6998
4800 Earley Henry G ◎ FL3-6904
4808 Under Constn
4814 Under Constn
4820 Under Constn
4901 Under Constn

226
OWEN AV—From 1000 N Prospect av east beyond N Bellefontaine av
2800 Lovett Robt A
N Chestnut av intersects
N Kansas av intersects
N Agnes av intersects
N Bellefontaine av intersects
(Not open beyond N Bellefontaine av)

242
OZARK RD—From Sni-A-Bar rd east to Raytown rd
7320 Vacant
7330 Thoms Donald E ◎ UN1-0255
7331 Hollander Arth ◎ WA3-4206
7417 Tippie Willis F ◎ WA3-3041
7500 Eastwood Hills Community
Association Club
Eastwood Swimming Club Inc
WA4-9839
7501 Longwell G Richd ◎ WA4-2761
7505 Barlow Richd M ◎ WA4-5256
7509 Haling Robt E ◎
7511 King Jack UN1-1327
7517 Parker James H ◎ UN1-2064
7605 Serrano Galo ◎ WA4-6247
7621 Crawford Donald L ◎ UN1-2651
7627 Bourdess Howard L ◎ WA1-6285
7633 Logan Jack N WA3-7405
7639 Brouse Chas E ◎ WA3-0293
7701 Pickney Chas R ◎ WA4-6084
7707 Lambrecht Carl J UN1-3969
7711 McFarland Bill G ◎ WE1-8583
7715 Parker Chas E ◎ WA3-9260
7719 Herrington James W ◎
WA3-5979
7801 Vacant
7805 Jones Robt A WA3-3028
7815 Holloway John G ◎ WA1-5755
7819 Seymour Chas E ◎ UN1-1312
7901 Warren James H ◎
7905 Lewin Donald
7909 Callis Leslie T ◎
7915 Vacant
7919 Lannon James H ◎ UN1-0735
8100 Municipal Farm (city)
UN1-1227
Penal Institution UN1-1212
Provyn Cyriel UN1-1212
Women's Reformatory (city)
UN1-1227

112
PACIFIC—From 539 Charlotte east to Paseo
801-09 Pacific Apts
1 Vacant
2 Vacant
3 Vacant
4 Vacant
5 Milton Ernest
6 Smith Mary
7 Vacant
8 Walker Evelyn Mrs
9 Johnson Willie
10 Vacant
11 Vacant
12 Vacant
13 Jones Bert
14 Watson Earl BA1-8274
15 Sewart Anna Mrs BA1-3919
16 Vacant
17 Vacant
18 Graves Richd E GR1-2316
19 Harden Fannie
20 Oliver Ulala Mrs
21 Vacant
22 Vacant
23 Johnson Jas
24 Vacant
25 Vacant
26 Vacant
27 Johnson Will
28 Vacant
29 Vacant
30 Vacant
31 Vacant
32 Vacant
33 Willis Alf GR1-6647
34 Willis Jeff
35 Vacant
36 Oliver Rena A
37 Vacant
38 Vacant
39 Vacant
40 Stapleton Ernest
Cottage la intersects
Campbell intersects
911 Cicero Frank HA1-5403
Steffe Luciano VI2-2450
bsmt Cascaro John
914 Callia Alex M GR1-7549
Harrison intersects
1000 Vacant
1001 Knotts Geo H HA1-8211
1001½ Mangiacina Alfonso
1002 Anita's Beauty Salon GR1-9892
1003 Frank's Shoe Repair
1004 Moscato Jennie Mrs VI2-1160
1006 Spero Joseph J BA1-0774
1008 Vacant
1009 Jeppesen Ejner T BA1-2933
Valenti Kate Mrs ◎ VI2-3449
Porras Solomon G BA1-8841
Termini Faustina Mrs GR1-6197
bsmt Raltson Alvin W VI2-1704
1015 Testa Marion J ◎ HA1-5698
Marsse Edna K Mrs GR1-8051
bsmt Jackson Louis J GR1-5237
1030 Boyer Jerry L BA1-4325
Gillis begins

116
Troost av intersects
1100 Strada Grocery HA1-3022
Strada Sam ◎ HA1-3022
Strada Jos HA1-7934
1101 Squire Elec Co storm rm
Moore Della A Mrs HA1-0614
1113 Maggio Antoinette Mrs HA1-3756
Cipolla Josephine Mrs HA1-1706
1115 Goens John J VI2-4415
1116 Scola Paul V VI2-6710
1117 Bumale Saml ◎
1118 Busetti Frank
1119 Lombardo Frank ◎ GR1-3193
Raccuglia Polly A Mrs HA1-0019
Lamore Wm E BA1-8428
1120 Distefano John J GR1-7477
1121 Palmentere Maria Mrs ◎
HA1-2252
Archer Edw S HA1-8308
1122 Bellafiore Pete J ◎ BA1-7046
1123 Palmentere Nicholas jr
GR1-7253
Cuezze Sam A GR1-1971
1124 Corsentino Mamie Mrs ◎
BA1-5748
Remmert Ralph H HA1-4627
1125 Soliz J R
rear Smith Leo S HA1-3351
1126 Crescente Dominick GR1-0649
1127 Giangrosso Cingelo
rear Hackett Ralph H GR1-7904
1128 Capo Jos ◎ VI2-6495
Morano Jos VI2-6495
1129 Vacant
1130 Manade Chas W ◎ VI2-5738
1131 Cammisa Lena ◎ HA1-4730
1132 Segura Bob J
rear Vacant
1133 Mange Jennie Mrs VI2-8840
1136 Gargotta Rose ◎ VI2-7666
rear DeWeese James R
1138 Donici Alfonso BA1-3156
rear Garcia Pat Mrs
1139 DiStefano Jos ◎ BA1-0887
Ajax Trash Hauling BA1-0887
Lydia av intersects
Paseo intersects

238
PALMER—From 7800 US Hwy 40 south ½ block south of E 35th
E 33d intersects
3305 Bankson Gary WA1-2943
3306 Jacolis Geo P
3307 Hunt Robt E
3309 Fugate Norman WA3-4908
3310 Fritz Ernest J WA1-3616
3311 Horn Dorothy Mrs
3313 Sidotti Chas J WA3-2249
E 33d Street ter intersects
3315 Ford James
3317 Kenaay Donald C WA3-4664
3319 Meredith Walter L WA4-2717
3328 Moerer Robt W WA1-1492
3330 Kindrick Geo L WA4-4972
3332 Miller Geo W
3334 Schwery Allen J WA4-0107
3336 Green Chas L WA4-8213
3338 Miller Robt L
3340 Vacant
3342 Okres Wm C
3344 Mather James F WA3-0709
E 34th ends
3431 Hall Walter E WA3-1132
3432 Rush Harold D WA4-3322
3433 Deal Wm M ◎
3434 Hutcheson Norman C WA3-4552
3435 Easterbrook Wm E WA1-2247
3437 Freeman David H
3438 Havens J Fred WA1-2245
3440 Hampton Elba E
3442 Hiett Forrest L
(Not open bet S 34th and S 35th)
3501 Frank Louis H
3502 Kelly Clinton V ◎ WA3-1404
3503 Wieland Walter C
3504 Erck Felix
3505 Day Richd L
3506 Oliver Lae L
3507 Callum Roy B
3508 Garrett Leo E
3509 Evans Chester D
3510 Vacant
3511 Conley Burvage H WA1-1383
3512 Robun Jack N
3513 Lambert John H
3514 Jones Wm K WA4-6757
3515 Vacant
3516 Vacant

216
PALMER AV—From E 16th south to Longview rd
E 16th Street ter intersects
E 17th intersects

418
E 93d intersects
9300 Fischer Fred R ◎ SO1-6958
9304 Sorkin Sanford ◎ SO1-8266
9305 Kingland Quinten E ◎ SO1-5702
9306 Clawson Robt E ◎ SO1-7539
9307 Peskin Dean B ◎ SO1-6081
9308 Shull Wilbur R ◎ SO1-0657
9309 Guarino Bill
9310 McCaffrey Bernard J ◎ SO1-0084
9311 Baker Frank M jr ◎ SO3-0518
9312 Menke Robt V ◎ SO1-1204
9313 Cimino John O ◎ SO1-5384
9314 Stewart Jerry SO1-2772
9315 Kindle Wm F ◎ SO3-1507
9317 Smithmier Randall L ◎
SO1-7540
9318 Under Constn
9319 Borchardt Harold R ◎ SO1-5942
9321 Brantner Stanley J ◎ SO1-5951
9400 Vacant
9401 Duncan John L ◎ SO1-1826
9402 Under Constn
9403 Potts Virgil W ◎ SO1-6041
9404 Dufresne Gary ◎
9405 Bell Edw C ◎ SO1-7548
9406 Poese Wilmot W ◎ SO3-2452
9407 Schwan Rudolph J ◎ SO1-6618
9408 Bullard Harold G ◎ SO3-1638
9409 McColm Lewis S ◎ SO1-1592
9410 Vacant
9411 Lanigan Geo E ◎ SO1-5956
9412 Under Constn
9413 Mathis Wm R ◎ SO1-1259
9414 Under Constn
9416 Under Constn
E Bannister rd intersects

422
E 103d intersects
10300 Taylor Gerald L ◎ SO1-8730
10301 Hosey Earl I ◎ SO1-2767
10304 Shilt James H SO1-0887
10305 Budd Leroy C ◎ SO1-7266
10308 Babylon Max L ◎ SO1-2887
10309 Norgren Edw A ◎ SO1-7435
10312 Harrington Joseph D ◎ SO3-0312
10313 Jones Virgil C ◎ SO1-3687
10316 Stoup Leon ◎ SO3-1375
10317 Elmer Gerald J ◎ SO3-3338
10320 Cooper Jesse D ◎ SO3-3358
10323 Hummel Robt E SO1-5656
10400 Anschutz Harry W ◎ SO1-8637
10403 Leake Keith R ◎ SO1-5499
10406 McNeil Murl A ◎ SO3-0173
10409 Belcher Orville D ◎ SO1-1066
10410 Ostrom Ernest S ◎ SO3-0440
10413 Dent Glen L ◎ SO1-3689
Better Nursing Home Registry
placement serv
SO1-1414
10414 Williams Edw W SO1-1792
10419 Ross Robt G SO1-8132
10420 Knapp John R SO1-8636
10423 Riney Fred L ◎ SO1-2819
10424 Calegar Bill ◎ SO1-2908
10427 Stowell Lester D SO1-3007
10428 Daugherty Arth J ◎ SO3-0134
10501 Fischer Kurt P SO1-0161
10505 Pope Leslie R SO1-3631
10506 Thomas Donald E ◎ SO1-1049
10509 Dye Wm N SO1-0459
10510 Davenport Richd A ◎ SO3-1323
10511 Manley Cecil C ◎ SO1-5775
10514 Stein Ray E SO1-3776
10515 Hart Geo S ◎ SO1-8844
10518 Mosby Chas A ◎ SO1-6409
10519 McComas Robt E ◎
10521 Nichols Chas W ◎ SO3-1238
10522 Farris Alfred E SO1-8054
10526 Yeomans Elmo J jr SO1-1969
10527 Kirk Timothy J SO1-8356
10530 Stephens Marie Mrs ◎
SO1-8202
10601 Campbell Wayne E SO3-0292
10602 Wells Geo O ◎ SO1-1585
10605 Sykes John F SO3-0020
10606 Vacant
10608 McAnally L Dean ◎ SO1-8273
10611 Elmer Henry J ◎ SO1-6079
10612 Lombardino Chas ◎ SO3-2795
10615 Beer Paul H ◎ SO1-6728
10616 Foland Wayne R ◎ SO1-6010
10620 Foland Hal E SO1-3052
10623 Young Wm P ◎ SO1-6407

426
Ruskin Way intersects
11200 Gulick Jack L ◎
11202 Taylor Richd ◎ SO1-1301
11203 Hardinger Chas A ◎ SO1-2067
11204 Biles Donald E ◎ SO1-4863
11205 Combs Marvin A ◎ SO1-0452
11206 Taylor W D ◎ SO1-6044
11207 Lindsey Robt G ◎ SO3-1676
11208 McBeth Jay B ◎
11209 Kelly Joseph T ◎ SO3-0196
11210 Whitaker Robt W SO1-2641
11211 Bandler Wilbur W ◎ SO1-0191

TP	Adjoining	Source
-	✓	R. L. Polk Co.

47TH STREET TER E 1961

47TH STREET TER E—Contd
428 Darrow Joan Mrs LO1-6146
432 Seaman Robt D VA1-5653
Locust intersects
510 Vacant
514 Vacant
518 Vacant
600 Winger Geo J VA1-0974
604 Parrish Tom H ◎ LO1-5519
608 O'Keefe Eug F ◎ WE1-1144
612 Neal Edwin J ◎ WE1-8192
625 Pfaff Bert H LO1-1786
Rockhill rd intersects
Holmes intersects
(Not open between Holmes and Flora av)
94
Flora av intersects
1601 LaSalle Elizabeth L Mrs ◎
Wynne Margt L WA4-6019
1605 Wahlquist Ida C Mrs ◎
WA1-4916
Wayne av intersects
1716 Dull Robt ◎ WA4-5259
Gomez Raymond
1718 Roberts Clara Mrs ◎
WA1-7698
1720 Smith Geo S ◎ WA3-5841
1722 Vaughn Forrest L ◎ WA4-8458
1723 Croisant Lewis O ◎ WA3-4291
1724 Ballard Cecil ◎ WA4-1279
1726 Zwall Peter R
1727 Owings Ora D WA4-4633
1728 Norberg Kurt A ◎ WA3-9692
1729 Coonrod Glenn B ◎ WA3-4080
1730 Iseli Leonard T ◎ WA3-5826
1731 Albares Ralph W ◎ WA1-2262
1732 Keaton Wm E ◎ WA1-4995
1733 Quick Kenneth L ◎
1734 Pollard Raymond I ◎ WA1-4361
1735 Brennan Vincent T
1736 Mell Wm G ◎ WA1-8679
1737 McClernon Francis M ◎ WA1-4022
1738 Vacant
1741 Hope Mary C Mrs WE3-9015
1745 Lenie Hans O ◎
132
Woodland av intersects
1800 Seested June M Mrs WA3-2818
1801 Brandt Billie J WA3-1936
1801 Sears Robt C ◎ WA3-4379
1802 Pautz Harvey W ◎ WA4-5429
1803 Shoemaker Lloyd M ◎
WA4-0890
1804 Lippert Paul J WA4-4183
1810 Kyger Mary L Mrs ◎ WA4-3233
1811 Farris Arth M ◎ WA4-0206
1812 Hickle Austin M ◎ WA4-5448
1816 Kelley Millard E ◎ WA1-3108
1819 Morrison Wilda M Mrs ◎
WA3-2375
1820 Neidert Otto W ◎ WA1-9661
1821 Piggott Leo L ◎ WA4-1759
1823 Longan Jos C ◎ WA1-7622
1824 Reid Leona Mrs ◎ WA4-0080
1827 Olewine Robt E ◎ WA1-3343
1828 Borel Eglantine E ◎ WA1-8084
1832 Krug Frank M ◎ WA4-5379
1833 Simpson Jas ◎ WA3-5214
1834 Wheatcroft Rose H Mrs WA1-8441
1836 Hughes Jessie Mrs ◎ WA3-7629
1841 Rothenberg Sidney L ◎ WA3-8329
Schwartz Martin W WA3-8329
1844 Fogt Peter C ◎ WA1-5392
Euclid av intersects
2004 Silverberg Edw ◎ WA4-4683
2005 Laudenberger Edgar R ◎ WA4-3829
2009 Johnson Chester E ◎ WA3-3895
2010 Watts Hazel M Mrs ◎ WA1-5181
2012 Beaulieu Gerard W ◎ WA1-5466
2014 Hill Fred L ◎ WA3-4208
2015 Waker Wm C ◎ WA4-4299
2016 Leurenberger John C ◎ WA4-6997
2019 Hake Clem H ◎ WA3-2651
2022 Dobie Otto H jr ◎ WA3-4553
2025 Williamson Russell ◎ WA4-4337
2033 Roberts Jack K ◎ WA1-9592
2037 Wilkinson Ada C Mrs ◎ WA1-0296
2039 Christman Robt H ◎ WA1-0717
2041 Arnold John W ◎ WA1-3837
2102 Jansen Calvin A ◎ WA1-4563
2106 Herrin Ethel D Mrs ◎
WA1-2762
2110 Kemmerly Donald L ◎ WA3-9790
2114 Yocum Delmar D ◎ WA3-7954
2118 Bell Otto E ◎
2122 Landis Geo E ◎ WA3-3262
2126 McDevitt Jas J WA3-3810
136
Brooklyn av intersects
Benton blvd intersects
3702-12 **Benton Manor Apts**
3702 **Apartments**
100 Vacant
101 Graves Kenneth M WA1-1564
102 Cushing Michl P jr WA3-6237
103 Hambel Margt Mrs UN1-2154
200 Williams Ken R WA3-2263
201 Triplett Ruth WA1-7863
202 Vacant
203 Cobb H Ardella WA3-6236
3703-11 **Benton Manor Apts**
3703 **Apartments**
bsmt Davis Jasper WA4-2634
100 Vacant
101 Barker Gussie J Mrs WA3-6224
102 Cushing Michl P jr WA3-6237
103 James Betty J WA1-5164
200 George Elvin B WA4-7866
201 Vacant
202 Farrar Fred S WA4-4223
203 Calvird Veda M Mrs WA1-1022
3704 **Apartments**
100 Loomis Chas A WA3-6763
101 Noah Leonard L WA3-0094
102 Cowan Robt F WA1-5645
103 Learnard Lorraine WA3-8242
200 Gibson Robt S WA3-7531
201 Ferguson James L WA3-1840
202 Thomas Barbara L WA4-8360
203 Finley Donald C WA4-1642
3706 **Apartments**
100 Vacant
101 Vacant
102 Johns Roy C jr UN1-3467
103 Smith Kath E WA4-2252
200 Gray Dan R WA3-9816
201 Michael Robt B WA1-6703
202 Vacant
203 Vacant
3707 **Apartments**
100 Shull Gordon R WA1-3115
101 Benschoter John L WA3-6463
Johnson Chas M WA3-6463
Johnson Kenneth L WA3-6463
102 Peterson Alf W WA3-2899
103 Critchlow Irene UN1-1492
200 Hampton Harland L WA3-5305
201 Bold Stan E WA3-6067
202 Dunn Donna C WA4-5960
203 Gust Howard K UN1-3049
3708 **Apartments**
100 McKean Lucile E Mrs
WA4-6246
101 Vacant
102 Stockman Raymond L
WA4-2374
103 Vacant
200 Deitrick Aubrey H UN1-3810
201 Vacant
202 Kranitz Mitchell WA4-5922
203 Newman Carl D WA4-0769
3710 **Apartments**
100 Merry J A UN1-2834
101 Ewing Dorothy A
102 Reid E C Mrs WA4-5708
103 Shiphey Virginia W WA3-0011
200 Turley Donald E WA4-0554
201 Dale Gerald D
202 Jenkins Wanda
203 Montaleone James J WA1-3210
3711 **Apartments**
100 Evans Mabel R Mrs WA3-9508
101 Zink Della J WA1-9591
102 Whitaker Lucille WA1-4441
103 Cooper Janet M WA1-0513
200 Sanders Cecil E UN1-0823
201 Neff Ortha WA3-3018
202 Showalter Edw L WA3-3842
203 Marvin John F WA4-8194
3712 **Apartments**
100 Limburg Kenneth E WA4-4713
101 Tiffany Marion F WA4-5294
102 Robbins Sarah S Mrs
WA1-2969
103 Riggs Dorothy B
200 Brown Mary C WA3-7421
201 French Monte C WA4-6212
202 Snedegar Emma Mrs WA3-9367
Snedegar Ruth L WA3-9367
203 Blackmore Saml P WA3-6479
184
3800 Vacant
3804 Rocha Agustin E ◎ WA3-4292
3808 Eberting Martin K ◎ WA4-0474
3812 Callie's DeLuxe Beauty Salon
WA1-1914
Ellison Callie ◎ WA1-1914
3900 Vacant
3904 Mullikin Roslene Mrs ◎
WA1-6468
3908 Hanson Orion G ◎ WA4-0529
3912 Anderson Ralph V ◎ WA1-2914
3916 Allen John W ◎ WA3-7060
3920 Sharp Geo W ◎ WA3-2383
3924 Wright Jos W ◎
3928 Smith Walter ◎ WA3-5044
3931 Estis Lee S ◎ WA3-2995
3932 Gragg Leonard B ◎ contr
WA3-5638
3935 Vacant
3936 Adrine John L ◎ WA4-5130
Park rd intersects
242
6700 Lauderdale Wilber A WA3-2066
Park ter intersects
7600 Meiers Clarence ◎ WA1-2824
7601 Sousley Norman C ◎ WA3-5056
7605 Warden Lloyd E ◎ WA1-3453
7608 Jacobs Richd C ◎ WA1-0431
7611 Greenlee Ben C ◎ WA1-1108
7614 Ellis Golden M ◎
7617 McDowell Sam ◎ WA4-6735
7618 Lewis James C
7623 Smith Louis E ◎ WA1-9858
7624 Thomas John L ◎ WA1-9213
7700 Hunter Cleo D WA3-4038
7701 Rice David W ◎ WA3-8903
7705 Terry Allen W ◎ WA1-7522
7706 Bever Gene A ◎ WA1-3706
7709 Fenkins Ronald D ◎ WA1-3637
7710 Stickle John W jr ◎ WA4-6336
7714 Crook Wilbur L ◎
7715 Nelson Louis H ◎ WA3-5263
7718 Vaugn Claude I WA4-8185
7719 Schooley Robt ◎ WA3-4389
7800 Hess Roy E ◎ WA1-1853
7801 James Richd L ◎
7804 Vospette Andre L ◎ UN1-3251
7805 Marchesini Arth R ◎ WA3-3146
7809 Bird Albert M ◎ WA1-2488
7812 Leasure Harold E ◎ WA1-3645
7815 Morgan Thelwood WA1-1768
7816 Sullivan Robt L ◎ WA1-4618
7819 Nichols Geraldine Mrs ◎
WA4-7043
7900 Ward Robt
7901 Howell Lee L ◎ UN1-0820
7904 Cambron Hugh M ◎ WA4-4746
7905 Fletcher Josephine Mrs ◎
WA1-3426
7908 Flowers Kenneth L UN1-2535
7909 Womack Chas ◎ UN1-2711
7912 Edwards Jos W ◎ WA1-0689
7915 Luellen Leslie E ◎ WA3-2652
7916 Clawson Theo E ◎ WA4-9140
7919 Mitchell David ◎ WA3-9321
8300 Arnold Seth C ◎ WA4-6928
8301 Pearson Ralph S ◎ WA4-3244
8304 Karr Stello O ◎ WA4-9118
8305 Easley Willie E ◎ WA3-1064
8308 Vacant
Eastern av intersects
8309 Wilson Jas E ◎ WA3-9526
8400 Hellstern Jos W WA3-9882
8401 Evans Chas P ◎ WA1-9674
8404 Hall Robt L ◎ WA4-3452
8405 Hendricks Henry M ◎
WA1-2493
8408 Case Norman A ◎ WA3-0741
8409 Overton Jas P ◎
8500 Brown Richd M ◎ WA3-7557
8501 Watts Homer B ◎ WA4-8137
8502 Stone Earl E ◎ WA3-6879
8505 McHenry Stanley A ◎ WA4-7174
8507 Vacant
8508 Stephens Clarence E ◎ WA1-4294
8511 VanTrump Arnold T ◎ WA1-9306
8512 Aulgur Robt F ◎ UN1-2941
8515 White Volney B ◎ WA1-7942
8516 Cunningham Frank E WA3-5324
240
Sterling av intersects
11200 Meredith Norin J ◎ RE1-9361
11204 Cox Tracy E ◎ FL3-1393
11207 Fisher Vernie G ◎ FL3-4412
11208 Lemberger John O ◎ FL3-1209
11211 Renner Mike E ◎ FL3-4583
11212 Bellman Otto E ◎ FL6-5335
11215 Kerby John E jr ◎
FL6-0409
11216 Malchow Alf A ◎ FL3-8810
11219 Bishop Rollo O ◎ FL3-4392
11220 Sibbitt Ronald R ◎ FL3-5498
11223 Harper Robt A ◎ FL3-4421
11224 Hartman H Geo ◎ FL3-4434
11227 Cappo Jos J ◎ FL3-3308
Claremont av intersects
Blue Ridge blvd intersects
12003 Pileggi Antonio ◎ FL3-0573
12005 Colbert John H ◎ FL3-0598
12007 Williams Chas L ◎ FL6-0482
12009 Handley Jeanette ◎ FL6-2359

230E
47TH STREET TER NORTH E (Clay County)
900 Gorman Wm S ◎ GL2-1352
Gorman Sales whol candy
GL2-1352
232C
2424 Myers Wayne F ◎ GL2-0845
2600 Duxbury Chas L Rev ◎ GL2-1431
2603 Atkins Bertha H Mrs ◎ FL2-6551
2606 Richardson Russell H ◎ GL2-3509
2607 Lowe Victor E ◎ GL3-1880
2610 Tomlinson Oscar R ◎ GL3-5362
2615 Richards Jas R ◎ GL2-3698
2616 Durlacher David F ◎ GL2-3393
2619 Crane Wm J ◎ GL2-6449
2622 Clark Jas O ◎ GL2-6556
2700 Speck Walter ◎
2704 Duffy Jos L ◎ GL2-8031
2722 Whiteaker E Harold ◎ GL3-4395
2727 Farris Earl L ◎ GL2-9125
2804 Auld Edw A ◎ GL2-1663
2807 Turner Floyd C ◎ GL2-4472
2810 Fantin Eugene J ◎ GL2-5215
2814 Ward Arth J ◎ GL2-3021
2820 Montgomery C W ◎ GL2-5489
2824 Vacant
2828 Rogers Albert L ◎ GL2-0777
2832 Eastburn Byron L ◎ GL3-4563
3201 Under Constn
3206 Under Constn
3231 Withrow G Ray ◎ GL3-0748
3237 Under Constn
3500 O'laughlin Russell C ◎ GL3-0307
3501 Tinsley Raymond E ◎ GL3-7933
3504 Schraeder F Virginia Mrs ◎
GL3-5554
3505 Stasi Angelo ◎ GL2-7756
3506 Oswalt C Gale GL3-5660
3507 Lycan Ernest E ◎ GL3-2527
3510 Mauritzen Glen H ◎ GL3-6057
3511 Baird John W ◎ GL2-9317
3512 Stewart Richd N ◎ GL3-1738
3513 Kent Chas S ◎ GL2-6597
3516 Glatt J E ◎ GL3-0809
3517 Heibutzki Otto P ◎ GL2-9473
3518 Kaul Kenneth E ◎ GL2-5831
3520 Blair Jack P ◎ GL3-5802
3521 Nester Arth E ◎ GL3-3411
3525 West Gale A ◎ GL2-9709
3600 Edwards Lon G ◎ GL2-9593
3601 Hughes Donald J GL3-2510
3609 Evans Earl V ◎ GL3-4518
3610 Ketterman Wm R ◎ GL3-5457
3616 Creighton Jas C ◎ GL3-5716
3619 Shull Jas W ◎ GL3-5278
3622 Becker Donald W ◎ GL3-6527
3625 LaRocca Frank ◎
3628 Borden Wm S ◎ GL3-6873
3631 Taylor Jack R ◎ GL3-5311
3634 Nugent Patk H ◎ GL3-0115
3637 Russo Mario ◎ GL3-5349
3640 Dunkerley Robt A ◎ GL3-6844
3700 Wright Arth M GL3-6574
3701 Phelan Eliz ◎ GL3-6919
3707 Lewis Gene M ◎ GL3-3731
3708 Russo Vito S ◎ GL3-6746
3713 Pernice Rudy J ◎ GL3-5840
3714 Kelly Wm J ◎ GL3-6534
3719 Katzenberger Robt H ◎ GL3-3377
3720 Small Wm F ◎ GL3-6982
4600 Field Max L ◎ GL2-4507
4603 Bode Lindley W jr ◎ GL3-1238
4607 Ashelin Theo G ◎ GL3-0322
4610 Oswald Norman E ◎ GL3-5889
4612 Beahan Jimmie R ◎ GL3-3779
4613 Jones Earl E ◎ GL2-0348
4620 Owen Hubert W ◎ GL2-4028
4700 Havener Walter L ◎ GL2-1432
4703 Hernandez Joe ◎ GL2-1364
4707 Hetherington Harold E ◎
4708 Vacant
4711 Kimball Danl L ◎ GL2-4680
4712 Speak Ronald G GL2-7938
4716 Rorer Norman S ◎ GL2-2826
4717 Hixson Clay H ◎ GL3-2239
4721 Loos Lynn E ◎ GL2-2762
4800 Frost Velma E ◎ GL3-1716
232F
5102 Hamblin Roby G ◎ GL2-6224
5103 Ragan Robt ◎ GL2-1357
5108 Gannaway Dorothy Mrs ◎ GL3-6243
5109 Simmons Eug E ◎ GL2-9117
5115 Vacant
5120 Vacant
5121 King Earl L
5200 Parker Chas H ◎
5220 White Wm A ◎ GL3-6073

68
48TH E—From 4800 Grand av to Lister av (not open between Troost av and Woodland av)
201 Vacant
205 Gabert Chas J
207 Betz Edw T LO1-7954
209 Jurgeson Clara Mrs ◎ VA1-5734
212 Bush Robt H JE1-8977
Horne Geo H WE1-5884
214 Thomsen Thos S ◎ WE1-9413
215 Martin Edw E ◎ JE1-4220
216 Gartrell Margt H Mrs ◎
LO1-4809
218 Koch Kenneth F LO1-5802
220 Shield Florence H Mrs ◎
WE1-9783
McGee intersects
301 Midway Food Mart LO1-6418
301½ Meeth Edw LO1-7370
302 Dobson John R WE1-2094
Giacola John M
303 Walton Agnes Mrs ◎ PL3-4328
304 Jordan C Jack PL3-3556
King Wm A JE1-5036
305 Jullien Oliver PL3-4328
306 Breaud Edwin P PL3-6289
Attebery Robt L JE1-6038
308 Prose Mona R VA1-1731
Wink Richd E PL3-4469
309 Bybee Ollie L Mrs ◎ VA1-4174
310 Slatten Eula D Mrs
Smith Gad C JE1-5821
Schwartzburg James JE1-5821
311 Rodekohr Arth B ◎
LO1-6778
312 Ramsour Mary C
Thomas Rose M WE1-8532
315-17 **West Lake Apartments**
101 Beaven H Pauline VA1-2851
102 Nothnagel Carl L
103 Bishop Richd E PL3-7184
104 Cheney Harold D VA1-2157
201 Zimmerman Dorothy Mrs
202 Zahnd C Gene JE1-2911

TP	Adjoining	Source
-	✓	R. L. Polk Co.

48TH ST E 1961

48TH E—Contd
West Lake Apts—Contd
203 Lovelace Donald E WE1-2887
204 Chambers Wm G mgr
301 Vacant
302 Ahuja Suraj P VA1-6664
303 Penny James A
304 Russell Arth H LO1-8562
316 **Apartments**
1 Massman Marie D ⊙ JE1-4879
2 Miller Alf H WE1-3162
3 Slaymaker Mae D Mrs WE1-2947
4 Massman Zettia T Mrs
5 Hunter Ruth F VA1-0236
6 Richmond Merle A VA1-0372
318 **Apartments**
1 Le Gere Mary E
2 Chapman John J jr WE1-6313
3 Gentry Hazel G Mrs VA1-8138
4 Young Barbara A JE1-6875
5 Tully Clarice LO1-4880
6 Johnson Billie JE1-1393
319-21 **East Lake Apartments**
bsmt LaHiff James M
Apartments
101 Vacant
102 Burnham Louise JE1-4112
103 Hedges Chas L JE1-1271
104 Meda Bonny M Mrs JE1-4290
201 Terry Isabelle T Mrs
202 Banks Lawrence S LO1-4524
203 Teegarden Fred W PL3-6957
204 Hall Lucile M Mrs JE1-2813
301 McCaffrey Wm J WE1-1881
302 Piper Joyce PL3-3623
303 Pfahl Kurt JE1-7731
304 Kent Alvis R VA1-8760
Oak intersects
Locust intersects
Rockhill rd intersects
Holmes intersects
701 Wheatley Rose B Mrs dressmkr WE1-9677
701½ Coppola Josephine Mrs LO1-2806
703 Blackwell Mary J
703½ Centonze Vito JE1-5881
704 Gardner Harry D ⊙ paperhanger LO1-4386
705 Fisher Carlene Mrs
Lohmeyer James M
707 Carpenter Ida M
Brewer Kenneth H WE1-6224
708 Halsey Earl M ⊙ LO1-5585
712 Palmer Stanley L ⊙ WE1-8069
715 Hogg Jas E ⊙ WE1-0318
716 Austin Walter S ⊙ LO1-5068
719 Porter Alva L ⊙ LO1-0172
bsmt Vacant
720 Patterson Nellie A Mrs ⊙
721 Kinser Leland E ⊙ LO1-5807
Charlotte intersects
802 Hopfinger Ella H ⊙ WE1-2296
805 Byrne Patk ⊙ WE1-0274
808 Girvin Leigh R ⊙ WE1-8137
809 Young Harry H ⊙ LO1-0726
811 Ferguson Pearle E Mrs ⊙ WE1-6848
812 Simpson Betty Mrs WE1-5943
bsmt Sanders Florence A Mrs ⊙ VA1-6831
815 **Hartford Arms Apts**
bsmt Daniels Emmet W jan
1 Fideli Kath
2 Duffy Barbara J WE1-8369
3 Sprague Mildred M
4 Balding Estella M Mrs LO1-8114
5 Vacant
6 Magerl Lorretta WE1-2071
20 Dixon Mollie Mrs WE1-6132
21 Hoover Peggy A R WE1-3011
22 Tomlin Murille A WE1-2944
23 Collins Charlotte M Mrs WE1-4458
24 Nunnelly Inez WE1-8669
25 Shane Joe L WE1-1720
26 Sears Jas M JE1-7369
27 Vacant
30 Weigel Phyllis A VA1-8432
31 Dooley Kath
32 Edwards Paul J VA1-2866
33 Sites Margt P nurse JE1-9487
34 Vacant
35 Nolan Janice VA1-7236
36 Vacant
37 Lynch John JE1-9353
Street continued
816 Grautham Cora Mrs WE1-3652
Williams Vernon W
Maisch Emma D ⊙ LO1-2065
819 **Hartford Apartments**
1 Orr Chas P JE1-2690
2 Murty Geo C JE1-2927
3 Foster Margt E Mrs LO1-0140
5 McChriston Russell H
6 Lane Goldie Mrs nurse LO1-3516
7 Smothers Jack
8 Smith Ethel F Mrs JE1-5590
9 Gaskill Donna M WE1-1379
10 Craig Jewel V Mrs JE1-2799
11 Magathan Marguerite WE1-3257
12 Lacy Jasper T VA1-7937
14 Slough Ira J jr JE1-6677
15 Lee Leetta M JE1-0122
16 Stewart David L WE1-5324
17 Main
18 Nash Robt R
Foster Irene
19 Roberts Duane WE1-7409
20 Lawson Rosalia
21 Hall Sanford E
22 Bartle Orin C jr JE1-3606
23 Leiah Harriet A Mrs
24 Bradley Frank A JE1-3993
25 Vacant
26 Tizzerand John B
27 Stewart Lola
28 Jones Helen G VA1-3810
29 Crebs Eug R
30 Hammontree Marie M Mrs nurse JE1-6520
31 Griffin Claude L VA1-2630
Campbell intersects
820 Smith Mike T ⊙ LO1-0808
901 Hoggatt Rug Co LO1-2352
907 Trah Henry J ⊙ JE1-7787
909 Patterson Edw N JE1-7091
909½ Sears Nona J
911 Harris Dollie M Mrs ⊙ VA1-1228
bsmt Bezemer Calvin LO1-3865
912 Cope Geo & Sons contrs WE1-6324
913 Kerr Margery L Mrs JE1-3353
914 Kansas City Wholesale Flowers Inc JE1-9570
bsmt Sonntag Mary Lou
915 Denneny Richd T JE1-3194
916-18 **Middleton Apartments**
102 Carey Ileta JE1-1279
101 Vacant
103 Arras Charlene Mrs
104 Hood Kenneth B WE1-4275
201 Eggers Ellen L Mrs LO1-8303
202 Wilson Pearl Mrs WE1-8574
203 Briner Charlene Mrs JE1-2771
204 Stevens David B jr
205 Jordon Jack
Street continued
917 Harrison Roy V ⊙ VA1-5787
Harrison Trash Hauling VA1-5787
920 Vacant
922 Conventry Sarah Jewelry VA1-5954
922½ Holiday Wm E VA1-5901
Beard Arth E
Harrison intersects
1000 Security Safe Service Inc LO1-8000
1002 Williams Dick Jewelry VA1-1912
1004 Rockhill Bar Inc tavern VA1-9130
1006 Evans R H & Associates contrs WE1-3373
1008 Miller Dwight Auto Service garage JE1-8090
rear G & R Body Shop garage JE1-8078
1015 Vacant
1016 Cebis Co The mfrs agts LO1-0350 & LO1-4010
1018 Vacant
1020 Nickelvich Edw A LO1-7891
Nickelvich Wm A
Troost av intersects
94
1122 Daniels-McCray Lbr Co paint-wallpaper GL1-4141
132
(Not open between Flora av and Woodland av)
Woodland av intersects
1800 Whitlock Jack T WA3-2243
Stone Henry D WA3-2243
Howell Michl WA3-2243
Noel Richd WA3-2243
1804 Bryant Mae C Mrs ⊙ WA3-8886
1806 Briggs Marcius X ⊙ UN1-0258
1807 Zander Martin C
1810 Arcuri Mary Mrs ⊙
1814 Cramm Gene F WA3-1371
1821 Etter Paul W WA4-3785
1827 Herzog Ernest ⊙ WA3-4091
rear Hood Wayne L UN1-1065
1829 Paddock Chas E jr ⊙ coml photog WA1-3204
1831 Nofftz Dorothy C Mrs ⊙ WA1-0325
1834 Simmons Ralph E ⊙ WA3-5750
Airkem Midwest Sales Co coml odor control WA3-8080
1836 Studer Ernest E ⊙ WA1-9770
1838 Vacant
1844 Davis Alvie A ⊙ WA4-1312
1845 McComas Claude jr ⊙
1847 Rooks Donald W ⊙ WA1-9235
Euclid av intersects
2008 Blackiston Percy E ⊙ WA3-5492
2011 Duchardt Fredk A ⊙ WA3-8257
2016 Fox Louis J ⊙ UN1-1624
2020a Vacant
2020 bsmt Vacant
2021 Massey Walter B ⊙
2025 Sparks Leslie B ⊙ WA3-6958
2026 Borkowski Casimir ⊙ UN1-1709
2029 Wilson Major L WA3-1645
Wiley David E WA3-4436
2036 Simpson Chester W ⊙ WA4-6527
2037 Smith Clyde B ⊙ WA3-8915
2040 Webster Milton R ⊙ WA4-7418
2041 Weddle G Eug ⊙ WA1-2811
2045 Porter Al
2046 Vacant
Brooklyn av intersects
Park av intersects
2300 Farris Fred W ⊙ WA1-9276
2305 Vacant
2308 Vacant
2312 Krilly Saml J ⊙ WE4-1724
2315 Ellis Georgia M Mrs ⊙ WA4-4650
2317 Stock Alf J jr WA4-8658
2318 Cashman John J WA3-3820
2320 White Jesse C ⊙ WA1-6483
2321 Coombs Robt E ⊙ WA3-0619
2323 Barbour Claude B ⊙ WA4-1672
2331 Quint Jack K ⊙ WA1-6217
184
Spruce av intersects
Kensington av intersects
Cypress av intersects
4502 Rapp Judy C Mrs ⊙ WA3-0392
4510 Vacant
4516 Poindexter Robt C ⊙ WA4-7152
ne cor Southeast Bapt Church WA1-2886
Elmwood av intersects
Lawn av intersects (not open)
Lister av intersects (not open)
242
7600 North Ward F ⊙ WA1-6325
7601 Pruitt Chas R ⊙ WA3-3981
7605 Rovenstine Donald H ⊙ WA4-2163
7606 Childers Harry H WA1-4628
7609 Larkins Earl W ⊙ pntr WA3-4611
7610 Jackson Wm S ⊙ WA3-7799
7614 Barber James K ⊙ WA1-2655
7615 Summers John L ⊙ WA3-0936
7618 Piatchek Richd J ⊙ UN1-3220
7704 Cockerham Remmel M ⊙ UN1-3113
7705 Weisser Roy W ⊙ UN1-2093
7710 Frandsen Peter E ⊙ WA4-7834
7711 Brands Wm R ⊙ UN1-2637
7716 Zimmerman Chas B ⊙ UN1-2937
7717 Spena Darryl D ⊙ WA1-9605
7800 Sallee Norman R ⊙ WA3-3813
7806 Robertson Joseph ⊙ UN1-2913
7807 Baylor Dale C ⊙ UN1-3020
7812 Vacant
7813 Joyce Martin J ⊙ WA4-8204
7816 Holt John R ⊙ WA1-0692
7817 Cretel Roland H ⊙ UN1-0259
7900 Boyle David T ⊙ WA1-3920
7901 Terry Geo E
7906 Rockers John J ⊙ WA1-4486
7907 Younts Lloyd F ⊙ WA4-7946
7911 Vacant
7912 Ranallo Geo S ⊙ WA4-2321
7915 Vacant
7916 Nerees Gerald M ⊙ WA3-0215
7919 Vacant
7920 Veidick James F ⊙
240
Sterling av intersects
11201 Bollinger Geo E ⊙ FL6-0235
11205 Keairnes Harold W FL6-5471
11206 Duncan Laurence A ⊙ FL3-4687
11209 Schroeger Eulalia Mrs ⊙ FL3-8910
11210 Poindexter Jas G FL3-0248
11214 Neece Maxine E Mrs ⊙ FL3-0139
11215 Holwick Harold D ⊙ FL6-3381
11218 Blair Geo P ⊙ FL6-4655
11219 Nystrom Harry B ⊙ FL3-6865
11222 Garrett Gerald G ⊙ RE1-6057
11223 Brown Robt D Rev FL3-2515
11226 Welland Jos J ⊙ FL3-5348
11227 Blakely Thos T ⊙ FL3-4906
11231 Gibson Geo C ⊙ FL6-0195
Claremont av intersects
Vermont av intersects
Norwood av intersects
11701 Gerken Jack ⊙ FL6-5790
11703 Kinyon Richd L ⊙ FL6-5313
11706 Walker John P ⊙ FL3-4970
11707 Schoonover Robt L ⊙ FL3-8580
11714 Lilly Leonard C ⊙ FL6-0652
11800 Cosentino Jerome J ⊙
11801 Winbigler Glenn P ⊙ FL3-5540
11804 McPherson Eavin M ⊙ FL6-2033
11808 Bray Earl E ⊙ FL3-5682
11809 Carmack Walter E ⊙ FL3-2519
11812 Taylor David D ⊙ FL6-3327
Blue Ridge blvd intersects
12001 Hill Victor A ⊙ FL3-0330
12002 Buchholtz Howard J ⊙ FL6-2813
12003 Erickson Carl A ⊙ FL3-5602
12004 Shelton Douglas E ⊙ FL6-4859
12005 Moore Chas E ⊙ FL6-1661
12006 Wiss Lloyd C ⊙ FL3-6010
12007 Scott Ray T FL6-0216
12008 Hammontree Danl C ⊙ FL6-1378
12009 Creagan Chas A ⊙ FL3-8523
Woodside av intersects
230E
48TH NORTH E (Clay County)
2018 Ballard Wm H ⊙
2104 Christensen Dean A ⊙ GL3-2699
2112 Gadd Elmer E ⊙ GL2-1793
2117 Northgate Junior High School GL3-2250
Northgate Junior High School Cafeteria GL3-2252
2120 McKeehan Ralph A ⊙ GL2-8504
2128 Cuthbertson David D ⊙ GL2-8501
2200 Dillingham David M ⊙ GL2-8500
2201 Harbison Velda B Mrs GL2-9622
2214 Short Leslie C ⊙ GL2-0533
2215 Huffman Willie R ⊙ GL2-9190
2216 Kuhnhoff Geo H ⊙ GL2-3739
2217 Harbison Geo H ⊙ GL3-1695
2226 McCarty Edw ⊙ GL3-6847
2323 Milstead Alice G Mrs ⊙ GL2-2457
2401 Snider Benny N ⊙ GL2-4696
2405 Rumpf Fred J ⊙ GL3-5078
2409 Miller Raymond L ⊙ GL2-0562
2414 Bray Jack E ⊙ GL2-8566
2420 Smith Irvin C ⊙ GL2-4363
2426 Henricks Jack D ⊙ GL2-8567
2432 Thompson Victor G ⊙ GL2-0645
2436 Wortham Lloyd G ⊙ GL3-4548
2501 Gill Clarence H ⊙ GL2-6070
2509 Sharp Kenneth W GL3-2821
2515 Vacant
232C
3405 Harris Robt M ⊙ GL2-2706
3408 Elliott Ralph H ⊙ GL3-5497
3409 Miller Paul R ⊙ GL2-0857
3412 Young Jack S ⊙ GL3-3485
3413 Berglund Lawrence W ⊙ GL3-2045
3417 Mitchell Jack N ⊙ GL3-2864
3421 Larocca Salvatore J ⊙ GL3-1281
3426 Conlisk Roy S ⊙ GL3-7247
3433 Green Billy D ⊙ GL2-3411
3501 Warnock Peter W ⊙ mfrs agt GL3-1058
3508 Ness Clark F ⊙ GL3-1110
3509 Manley Warren O ⊙ GL2-5975
3514 Hunzeker Harold ⊙ GL3-0925
3515 Sauro Peter F ⊙
3522 Sundal Jasper J ⊙ GL3-2641
3523 Bolewski Thaddeus J ⊙ GL3-4697
3600 Stine Louis H ⊙ GL3-4715
3601 Zimmerman John E ⊙ GL3-2294
3605 Willcott Eug B ⊙ GL3-2582
3606 Wirth Eug W ⊙ GL3-1776
3609 Rattenbury Kenneth H ⊙ GL3-3465
3610 Adams Thos B ⊙ GL3-4482
3618 Wunsch Robt E GL3-6519
3619 O'Halloran Jas V ⊙ GL3-4631
3624 Kirts Lynn M ⊙ GL3-1547
3625 Como Albert ⊙ GL3-2625
3700 Berglund John K ⊙ GL2-0595
3709 Verboom J J ⊙ GL3-7237
3718 Hamersen Clarence A P ⊙ GL3-1029
3719 Snell Henry R ⊙ GL3-5574
3725 Cofield E E ⊙ GL3-3513
3740 Maskill Don E ⊙ mfrs agt GL3-3603
3744 Bobnar Jos E ⊙ GL2-7648
4717 Stottlemyre Grover C ⊙ GL2-3145
4800 Strang Chester B ⊙ GL3-4800
4805 Klomp Lambert A ⊙ FL2-6694
4815 Foerster Fred C GL2-9392
4831 Workman Ernest W GL2-5930
4936 Stark Edwin C ⊙
232F
N Brighton intersects
5009 McBee Donald D GL3-4453
5010 Fredricks John
5015 Sharp John R ⊙ GL2-6186
5018 Green Delorous L Mrs ⊙
5105 Welsh Jerauld K ⊙ GL2-2472
5106 Smitherman Hallie E ⊙ GL2-1941
5107 Ireland C Victor ⊙ GL2-0137
5108 Swart Ben F
5110 Draper Milford A ⊙ GL2-9053
5113 Vandam Donald ⊙ GL3-1992
5116 Dale James C GL3-4674
5119 McIntire Wm L ⊙ GL3-6686
5120 Tillman Donald J ⊙ GL2-3955
5200 StJohn Paul L ⊙ GL2-3831
5201 Whitworth Richd ⊙
5207 Fredricks James R ⊙ GL2-3231
5212 Fletcher Victor J jr ⊙ GL2-3231
rear Vacant
5213 Franklin John T ⊙ GL2-8463
5219 Sharp Chas W GL3-6492
5221 Caples Veryl L ⊙ GL2-6801
5222 Smith Frank S ⊙ GL2-6182
5308 McDaniel Roy H ⊙ GL2-3726
5311 Rider John L ⊙ GL2-6483
5314 Isom Andy A ⊙ GL2-3539
5402 Koenemann Altha Mrs ⊙ GL2-7211
5406 Smith Emro E ⊙ GL2-4807
5410 Rochcheck Stanley GL2-5032
5419 Pierce Carl F ⊙ GL2-9085
N Drury intersects
5500 Dollins John A ⊙ GL2-2567
5505 Beckwith Emma Mrs ⊙ GL2-9084
5506 McNally Kenneth R ⊙ GL3-2857

TP	Adjoining	Source
-	✓	R. L. Polk Co.

PALMER DR 1961

PALMER AV—Contd
11212 Nelson Melvin L ® SO1-7354
11213 Russell Glenn N ® SO3-0078
11214 Green Edwin A SO3-3543
11215 Dunn Thos ® SO3-0371
11216 Lowman Wm M ®
11217 Haworth Marvin M ® SO1-3437
11218 Clark Harry V jr ® SO1-6868
11219 Wright Bill E SO1-0632
11221 Roch Traverce G ® SO1-3006
11300 Zaccardo Frank X ® SO1-4521
11302 WeMott Harold H ® SO1-8971
11303 Copelin Buddy ® SO1-1962
11304 Haxel Wm F jr SO1-0147
11305 Portman Vernon F ® SO1-6667
11306 Cantrell James E
11307 Reece Margt Mrs ®
11308 Keell Danny W ® SO3-0096
11309 Nelson Vern A ® SO1-0993
11311 Oyler David L ® SO1-0771
11313 Hooper Virgil L ® SO1-6029
114th E intersects
11402 Thornbrugh J F ® SO1-5825
11403 Egner Gus R ® SO1-8913
11404 Evans Rowland M ® SO3-0424
11405 Wynne Thos F ® SO3-2092
11406 Scarlett James L ®
11407 Juelick John W ® SO1-8924
11408 Walker James G ® SO1-2218
11409 Rewoldt Leonard W ® SO1-8843
11410 Dujakovich Paul S ® SO3-3536
11411 Hayward Selvin S ® SO1-8841
11412 Williams Gerald J ® SO1-2119
11413 Hurster Wm G ® SO1-8970
11414 Garth Myron L ® SO1-2213
11415 Cross Raymond E ® SO1-8585
11416 Lowe Leonard C ® SO1-3460
11417 Moody Kenneth P ® SO1-0992
11418 Ross Everett W ® SO1-7093
11419 Speck Virginia Mrs ® SO1-6860
11420 Vaughn Elden M ® SO1-8566
11421 Blundell Robt E ® SO1-3298
11422 Lavender James W SO1-5816
11423 Hestwood Richd S ® SO1-8745
11424 Keitel John H ® SO3-0436
Longview rd intersects

328
PALMER AV N (Clay County)—
5328 Bailey Geo A ® GL3-5059
5329 Slagle Victor G ® GL3-1603
5335 Annunzio Jerry F ® GL2-1918
5339 Vacant
5342 Simmons Geo W ® GL3-1720
5347 Johnson Elmer W ® GL3-0788
5348 Vacant
5354 Armstrong Alvin H ® GL3-5807
5355 Renfro John A ® GL3-0352
5358 Jones Paul K ®
5359 Wisecup Eddie J ® GL2-9210
5364 Ayres Stanley ® GL2-8611
5365 Licata Sam P ® GL2-8699
5368 Schlegel Ben ® GL2-8901
5369 Webb Verne E ® GL3-1160
5374 Hayes Robert L ® GL3-3746
5375 Majors James E jr ® GL2-9278
5379 Walz Nicholas F ® GL2-5180
5380 Youtsey Maurice D ® GL3-4249
5536 Hall Richard D ® GL2-9145

242
PALMER DR—From 4731 Ozark rd south, one east of Eastern
4733 Aulgur Cecil E ® WA3-5272
4800 Garrison O A ® WA3-7758
4809 Chandler Lawrence
5100 Nicholas John L ® WA3-1632
5101 White Wm E ® WA1-2734
5102 Dumas Henry E ®
5109 VanVein Jay M ® UN1-3217
5110 Allen Ralph ® WA3-7819
5114 Hobbs John M ® WA3-9247
5117 Bagley Jack WA4-2571
5118 Palmer Billy Joe WA3-0820
5122 White Milton J ®
5125 Hubert Rudolph J ®
5126 Hopkins Jas O ®
5130 Hough Rolland J ®
5131 Weaver Donald F ®
5134 Gassinger Leo A jr ® WA1-3055
5135 Frazier Alf L ® WA1-1505
5138 Brenneman Jack R
5139 Gantt Edw T ® WA3-6683
5142 Lassiter Paul A ® WA3-9515
5143 Munns Ralph W ® WA1-3643
5147 Schowengerdt C E ® WA3-3861
5148 Murray Donald E ® WA4-5424
5151 LeVota Anthony ®
5154 Foster Harley M ® WA3-9019
5155 Graham Robt L ®
5157 Johnson Lester E ® WA1-5211
5159 Sullivan Ralph ® WA3-7479
5160 French Clayton C ® WA1-1735
5161 Wissinger Jerry
5163 Long Calvin M ®
5164 Perryman Cecil R ®

238
PALMER STREET TER—From 1 blk east of E 35th east to E 33d 1/4 blk south of Palmer

E 33d intersects
3306 Koster Kenneth K
3308 Easum Harry M WA4-6095
3310 Offutt Dennis O WA3-6769
3312 Wickham Donald R
3314 Vacant
3316 Gaither James H
3318 Vacant
3320 Nowell Jack
3332 Scott Annie M Mrs WA3-4351
3344 Mather James F ® WE3-0704
3417 Keeney Ludon WA4-2251
3419 Pigler Michael E WA4-4647
3421 Vacant
3422 Greiner Milton L WA4-1483
3423 Allen Phillip J WA1-3151
3424 Murphy Harold R WA4-4910
3425 Vacant
3426 Anderson Lewis W
3427 Yeisley Loyd W
3428 Osborne Garvice R
3429 Avery Clinton J
3430 Persell Marvin J WA3-7438
3431 Carlton Loren D jr
3432 Dewell Halbert L WA3-0791
3433 Selig Henry O WA3-0314
3434 Staats Richd G WA1-4619
3435 Moore Doris B Mrs
3436 Doggett Marie E Mrs
3438 Walker Eug A WA3-6594
3439 Dovier Russell W WA1-0470
3441 Tolle Marion W
3443 Little Arth L
E 35th intersects
3500 Walker Paul H WA3-5899
3501 Vacant
3502 Hall James B
3503 Tafft Donald
3504 Bonner John V WA4-8259
3505 Vacant
3506 Dube Alfred H WA3-4917
3507 Fredendall Lester D
3508 Gillihan Lloyd W WA4-7653
3509 Turner Avid W WA4-6934
3510 Williams Arth W WA1-1669
3511 Biggs Allen J
Gillis Betty J Mrs WA1-3795
3512 Vacant
3513 Vacant
3514 Toghiaferri Augustus WA3-7334
3515 Skinner Ronald R WA3-7316
5165 Johnson Norris D ® WA1-1419
5168 Williams Roy O ® WA3-1396
5169 Reid Carrol D ® WA3-8327
5172 Pierce Forest L ® WA1-2610
5173 Shelton Leo E ® WA1-4832
5177 Sanders Bobbie G ® WA3-3786
5200 Stephens Kenneth J ® WA3-9591
5201 Scritchfield Jerry A ® WA4-9183
5205 Bougher Carl E ® EA3-1428
5206 Nelson Jerry G ® WA3-2089
5209 Farmer Clarence T ® WA1-1491
5210 Burton Jerry ® WA3-1417

220
PALOMA—From opp 3038 Drury av east to Topping av
5500 Eden Gerald W ®
5501 Albauer Herman F ® WA1-9020
5505 Mulnix Wm H ® UN1-2583
5506 Koelling Irvin E ® WA3-0797
5507 Vacant
5508 Scanlon Donald D ® WA4-1550
5510 Cain Paul F
5515 Anderson Henry G ® WA1-5508
5522 Pate Chas H ® WA1-8019
Oakley av intersects
5600 Downer Bernard H ® WA3-6535
5601 Mitchell Ernest ® WA3-1152
Mitch's Movir. & Del Serv WA1-0351
5605 Vacant
5606 Batchelder Ira L WA3-0143
5608 Kipper Raymond A ® WA3-8470
5609 Wilper Harold E ® WA1-4133
5611 Gorham Myers T ® WA3-5942
Janes Harry W ® WA1-1864
5612 Studyvin Thos R ®
5615 Badger Maurine ® WA1-9428
5619 Wiley Durward M ® WA4-7540
5621 Woodward Robt C jr ® contr WA4-8280
5624 Linsey Robt E UN1-2718
5625 Smith Herbert L WA3-0035
5627 Miller Ralph E
5633 Roberts Thos ® WA4-4399
5635 Cayou Lucy Mrs
5636 Vacant
Topping av intersects
5640 Bourret Goldon WA3-7419
5641 Cunningham Donald D ® WA4-6334
5714 Chateen Dean M ® WA4-2381

120
PARADE THE—Paseo to Woodland av from E 15th to E 18th

232E
PARALLEL N (Clay County)—Changed to Brighton pl N

152
PARK AV—From 2300 StJohn av south beyond E 85th
100 Ward Geo T ® HA1-5991
Shatzer Daisy L Mrs HA1-5991
101 Pennacchio Jos R ® HU3-6417
106 Vacant
107 Nelson Carl E ® CH1-3588
109 Hon Chris L ® CH1-3573
110 Newberry Jas VI2-3815
111 Hackett Robt D CH1-0244
113 Dowell John H BE1-4194
Pickarell Saml HU3-0994
114 Mistretta Pascale ® GR1-7961
Hughes Summerfield J
115 Foster Dorothy Mrs
York Francis H HU3-2334
117 Cacioppo Mary Mrs ® CH1-0413
LaRocca Joseph HA3-8673
119 Krumwiede Henry W ® CH1-5556
120 Vento Maria Mrs ® GR1-2868
121 Saia Jos M ® CH1-5595
122 Mattuchi Millie Mrs ® BA1-5860
124 Risalvato John ® HA1-0423
126 Gurera Geo ® VI2-4279
135 Battaglia Pearl Mrs ® BE1-5072
Pendleton av intersects
203 Forte Grace M Mrs ® CH1-6397
205 Andrews Frank L ® CH1-8721
207 McGee Bernard D ® CH1-2239
208 Imperiale Bennie ® GR1-1806
209 Gilgio Salvatore ® HU3-5870
212 Berbiglia Nadine ® GR1-2663
213 Welch Warren W ® BE1-3681
216 Mancuso Frank A HA1-4387
Lanfranco Thos
217 Balestreri Anthony L ® CH1-2266
221 Mangiarcina Anthony ® CH1-6072
224 Zarro Elias Rev GR1-4850
225 Rogers Zoren D
Battaglia Anthony ® CH1-3284
229 Battaglia Frank huckster
Lexington av begins
Minnie intersects
313 Vacant
314 Spitaleri Jos ® CH1-5108
316 Vacant
319 Wright Ethel M Mrs ® CH1-8420
321 Gurriere A Jas CH1-3911
323 Armato Sam ® HU3-3751
324 Scarcello Anthony G HU3-0565
324a Perniciaro Jos CH1-0800
325 Mistretta Rose Mrs ® CH1-8160
328 Battaglia Frank ® BE1-4868
330 Bertuglia Nicholas
Locascio Frances Mrs
333 Sollomi Dorothy Mrs ®
334 Saccagnino Lorenza Mrs ®
Becker John
335 Shortino Mike ® BE1-4974
336 DiMeo Louis ® BE1-4330
Caldarella Leo C HU3-3464
338 Tarantino Saml S HU3-4075
340 Tarantino Peter ®
Elma intersects
401 Vacant
403 Vacant
Agrusa Nick ®
408 Tusa Pietro ® HA1-0992
410 Corte Frank
Boul Bernard H ® HA1-0857
413 Cucchiara Mike ® gro BE1-9812
Calabreasi Tommie
414 LaBruzzo Mamie Mrs ® HA1-0183
416 Lascuola Sarah Mrs ® VI2-4875
421 Mora Jesse J jr
Brooks Jesse A CH1-8660
425 Thomson Jared A
Amie intersects
500 Vacant
503 Grazier Jay W ® HU3-1990
504 Sirna Jerry J BA1-6069
504a Barresi Leo M BA1-3498
506 Santoro Peter
Puckett Jas F HA1-7498
510 Ferrari Frank HA1-5565
511 Gibson Wilbur
512 Buccero Rose Mrs ® GR1-1547
Carson Bertram H BA1-8973
513 Miceli Saml ® CH1-8939
515 Zuccotto Saml ® BE1-6377
516 Belgiere Jos HA1-7994
Sola Rosario M
517 Belgiere Phillip J ® CH1-6543
520 Sirna Jos G ®
521 Under Constn
524 Valenti Peter ® VI2-5147
Ancona John A BA1-1676
525 Vacant
528 Martino Jess ® HA1-3174
Cross Wiley E
532 Benedetto Chas GR1-1236
533 Zubbpardo Peter ®
533½ Vacant
534 Guadagnano Vincent BA1-8624
536 Vidmar Albert ® elec contr HA1-5019
540 Branch James W BA1-0594
542 **Oxford Apts**
Brancato Jos J ®
Johnson Janet Mrs
Arlinsky Donald
Boneta Luis C GR1-1621
Bulloch Joseph
Cucea Luigi T HA1-5867
Balletti Albert NI2-4335
Smith J Loren GR1-4635
Filippi Richd J HA1-4016
Fried Chas
Abramson Henry M HA1-0531
Flaming Bruce HA1-1498
Melns Gerald
Mims Roy D jr
Polk Richd R HA1-1013
Rinehart Donald
Mitchell Wm H HA1-3921
Nunneley Robt GR1-6895
Shipman Geo
Gerbasi Anthony GR1-4762
Battenfield Harold L BA1-5854
Nothnagel Lewis H HA1-5869
Wien Edith BA1-2941
Wilton Robt E HA1-7198
James Albert E BA1-1249
Bonabhan Sadie Mrs HA1-0463
bsmt Hamlin Wm E
543-49 **Park Vista Apts**
106 Kentz Merle HU3-8335
107 Martin Earl L
108 Brown Lavern Mrs BE1-2767
109 Harris James B
110 Wood Ophelia E Mrs HU3-1408
111 DeSchepper Wm M
112 Bernhardy Geneva Mrs
205 Miller Eug E
206 Hodges Wm L BE1-4574
207-08 Confer Marie Mrs CH1-9415
209 Workman Ruth E Mrs CH1-8053
210 Vacant
211 Vacant
212 Duffield Virgil
305 Vacant
306 Baker Alf D
307 Wolff Nicholas H CH1-7316
308 Vacant
309 Vacant
310 Pryce Thos
311 Babcock H R
312 Kelley John F

150
Independence blvd intersects
E 6th intersects
642 Levota Saml ® GR1-0121
644 VanMeter Bertha Mrs
bsmt Phelps Sherman VI2-7939
646 Schultheis Ethel M Mrs ® GR1-7309
bsmt Cypret Sherman ®
rear Langlin Bill
648 Sullivan David ® BA1-7620
650 Rice Theo ® GR1-0438
652 Eddy W H HA1-0284
653 Riggs Emmitt J
Riggs Viola M
655 Traschinger Jos HU3-0721
Pisciotta Frank ® BE1-8880
659 Bollinger Henry P ®
661 Marcum Marion
Miller Elmer HU3-2147
663 Martino Sam S CH1-5849
665 Truschinger Joseph HU3-0721
667 Herrera Mary Mrs ® HU3-0778
Martinez Manuel
669 Adams Jerdom O
675 Strada Ross HU3-8829
736 **Apartments**
Wheeler Raymond W
Lusby Robt W HA1-2968
Canada Dollie Mrs HA1-4639
Walton Eliz Mrs GR1-0863
Fuhr Pete
Carroll T R WA1-0260
Hedrick Wm
Baker Ada J Mrs
740 Monte Jos F ® inte dec HA1-5643
E 8th intersects
805 Vacant
807 Leone Lorenzo ® CH1-8855
808 Renie Andrew ® GR1-1057
809 Grayson T V ® HU3-6757
810 Miller Fred W ® GR1-0286
811 Vacant
813 Holden Chas C HU3-4109
Johnson Joseph C BE1-5087
814 Ippolito Palma Mrs ®
815 Bell Sarah G Mrs ®
816 Giordano Felix ® HA1-7193
817 Walker Viola E Mrs ® HA3-2605
818 Ingram Avalena Mrs GR1-8564
bsmt Bryant Mamie Mrs
E 9th intersects
902 Brown Chas
Mitchell Mary
904 Vacant
bsmt Taylor Leroy
906 Jackson Monroe
bsmt Vacant
908 Jackson John R BA1-3889
bsmt Allen Jesse
909 Sidney Chas W HU3-7948

e Trust Bldg. Tel. Victor 2-9645 18th & Prospect Av. Tel. DEMO

TP	Adjoining	Source
-	✓	R. L. Polk Co.

RICHMOND AVE 1961

RED BRIDGE RD E—Contd
5735 Stephen & Associates Inc consulting eng SO1-0500
cor US Hwy 71 KC Bus Sales Inc SO1-1390

288
RED BRIDGE RD W—From Wornall rd west to State Line
Wornall intersects
11 Connoley Russell WI2-1339
Connoley Insurance Agency WI2-3482
205 Irminger Ralph T ⊙ WI2-3492
301 Thompson Bernard L ⊙ WI2-9351
705 Ellis Robt A L ⊙ WI2-0106
716 James Clifford H ⊙
Glen Arbor rd intersects
806 Evans Elgia F ⊙ WI2-1791
807 Frey Wm J ⊙ WI2-3539
Red Bridge Landscaping WI2-3539
900 Hofer D Irene Mrs ⊙
901 Bartholomew Robt J ⊙ WI2-0926
906 Meiners Herbert C ⊙ WI2-2550
911 Kilmer John A ⊙ WI2-3418
1007 Galbraith Margt P Mrs ⊙ WI2-3396
1090 Mitchell John F ⊙ WI2-0908
1100 Bayne John E jr ⊙ WI2-9806
1200 Parker Hubert M ⊙ WI2-3355
1201 Stearns Lewis F ⊙ WI2-3514
1214 Park Lewis E ⊙ WI2-0936
1300 Davis Wm C WI2-3759
1301 Marshall Paul M ⊙ WI2-3745
1314 Caffrey Raymond J ⊙ WI2-1686
rear Higginbotham Edw L WI2-0891
1315 Miller John D ⊙ WI2-3439
State Line intersects

402
RED BRIDGE TER—From 11201 Blue River rd east
2100 Krings Louis W ⊙ WI2-1010
2101 Eulitt Richd H ⊙ WI2-0402
2120 Pearson Lcland E ⊙
2121 Vincent Herbert H ⊙ WI2-3520
2200 Vacant
2201 Jones Lawrence M
2207 Sanders Nield J ⊙ WI2-0832
2300 Flett Walter G ⊙ WI2-0183
2301 Hudson Thos E ⊙ WI2-3292
2306 Flett Archie R ⊙ WI2-3574
2309 Martin Gene R ⊙ WI2-1565
2310 Bockelman Edw C ⊙ WI2-0161
2400 Bowes Robt M jr ⊙ WI2-1351
2409 Wilson F Geo ⊙ WI2-0391
2411 Thomson Edw B jr ⊙ WI2-0274
Thomson Edw B jr Builder WI2-0274
2500 Hardee Wm D ⊙ WI2-3337
2504 Hammack Jack R ⊙ WI2-0589
2507 Perry Clayton T ⊙ WI2-2576
Perry Clayton constn WI2-2576
2511 Simms John R ⊙ SO1-7816
2517 Nelson Lynn B ⊙ SO3-1402
2520 Oliver Robt C jr ⊙ WI2-1723
2522 Ragsdale Darryl W ⊙ WI2-3578

262
RED BUD DR—From E Banister rd south to Grandview rd
E Bannister rd intersects
9504 Cates Franklin F ⊙ SO1-4121
9514 Kildow Jane Mrs ⊙ SO1-3968
9518 Ward Clifford O ⊙ SO1-8408
9520 Vacant
Grandview rd intersects

262
RED BUD DR E—From Red Bud dr east to Grandview rd
3208 Bonjour Walter E
Red Bud dr intersects
3305 Sieker Wm H ⊙ SO3-2690
Grandview rd intersects
3317 Under Construction

244
REED JAMES A RD—From E 63d Street trfwy south beyond E 99th
6400 Pence Herbert O ⊙ FL3-1078
6401 McClain Stone Co quarry FL6-5252
6420 Renkoski Edw A ⊙ FL3-1493
6500 Masters Myrtle A Mrs ⊙ FL3-2462
6501 Parker Fred ⊙ FL3-7118
E 66th intersects

246
6708 Kerr Virgil J ⊙ FL6-2421
6712 Speck John M ⊙ FL3-7216
6730 Under Constn
6800 Ackley Betty Mrs ⊙ FL3-2250
E 69th intersects
6900 Weiss Garland F FL6-5920
Gregory blvd intersects
7107 Gist W B ⊙ FL3-1167
7103 Stillwell Chas W ⊙ FL6-3117
7104 Napoli Jesse V ⊙ FL3-4624
7105 VanHorn Ora Mrs ⊙ FL3-0185
7112 Head Nannie Mrs FL3-9218
7115 Armstrong Donald R ⊙ FL3-3882
7118 Shafer Marvin L ⊙ FL6-1415
7119 Maddux Edgar R ⊙ FL3-3423
7120 Roberts Joe A ⊙ FL6-1523
E 72d intersects
7200 Leveridge Myron A FL3-0593
7206 Pearson Walter G ⊙ FL3-4465
7210 Reid Robt H ⊙ FL3-2738
7211 Creek Edna J Mrs ⊙ FL6-1780
7212 Hedges Geo E ⊙ FL6-5640
7216 Liftwich Robt M ⊙
7218 Smith Robt E ⊙ FL3-6691
E 73d intersects
7305 Madison Ray ⊙ FL3-0405
7307 Shonka Frank ⊙ FL3-2199
E 73d Street ter intersects
7325 Bertram Karl A jr ⊙ FL3-2580
E 74th intersects
7401 Owen Jesse W ⊙ FL3-1640
7404 Morgan Ray ⊙ FL3-8961
7405 Edgar Cecil L ⊙ JA3-0961
7408 Noll Lyle M ⊙ FL3-1182
7414 Davidson Mary A Mrs
7415 Brodecker De Vere L ⊙ FL3-5320
7416 Miller David E jr ⊙ FL3-0874
E 77th Street ter intersects
7502 Brown Clint A ⊙ FL3-5243
7510 Haight Ed L FL3-2976
7514 Davidson Mary A Mrs
7516 Chandler Barton E
7518 Haag Robt K ⊙ FL3-0696
7520 Roe Eug T ⊙
7528 Vacant
7604 Sidwell Gordon H ⊙
bsmt Essex John P FL6-5820
7700 McCaffrey Kennels FL3-1855
McCaffrey Hugh ⊙ FL3-1855
7701 Sharon Robt C ⊙
7710 Akers Evelyn FL6-5056
7714 Byle Harold W FL6-4682
7718 Lighthizer Robt E FL3-6384
7722 Horner Howard D FL6-5929
7838 Harkrader Virgil P ⊙ FL3-6075
7840 Brown Donald A ⊙ FL3-1672
7857 Galbraith Leslie ⊙ FL3-9723
7859 Smith Larry C FL6-5828
7861 Tosspon Carl L ⊙ FL6-4050
7863 Taylor Marie Mrs ⊙ RE1-7969
7867 Miller H Stuart ⊙ FL3-9273
E 79th intersects
7909 Vacant
7911 Burney Robt A ⊙ FL3-5322
7916 Shockey Emanuel R ⊙ FL3-0091
7919 Miller Wm K ⊙ FL6-2467
7923 Putthoff Willard A ⊙ FL6-2787
7927 Shaw Connie C Mrs ⊙ RE1-9294
E 80th Street ter intersects
8007 Pahl Theo F ⊙ FL6-0079
8017 Wright Emma H Mrs ⊙ FL6-2504
8025 Durham Archie ⊙ FL6-1102
8030 Gorman Thos A FL6-2306
8040 Barnett Max J FL3-3900
8044 Barnett Roscoe C FL6-5681
8045 Gann Herbert H ⊙ FL3-7307
E 81st intersects
8101 Ryan Mary T ⊙ FL3-8927
rear Downey Albert I FL6-5908
8111 Bird Bill D ⊙ FL3-7265
8115 Atkins Jas R ⊙ RE1-7371
8119 Nichols Joe L ⊙ FL3-5868
8126 Mullins Jas L jr ⊙ FL3-3720
8132 Hulett Rosie Mrs ⊙ FL3-4097
8137 Bradley Dennison O ⊙ FL3-9322
8139 Beard Earl E ⊙ FL3-4096
E 82d intersects
8200 Mehl Clemens H Rev FL3-8161
8221 Brumlow Arth E ⊙ FL3-8426
8223 DeBoer Henry ⊙ FL3-3203
Blue Ridge boulevard ext intersects

428
E 87th intersects
E 89th intersects
E 89th Street ter intersects
E 90th intersects
9004 Swezey Walter L ⊙ SO1-1775
Sycamoreway intersects
9014 Herndon James R ⊙ SO1-6018
E 90th Street ter intersects
9026 Kenney Herschel D ⊙ SO3-1377
9028 Galster Geo E jr ⊙ SO1-2365
9030 Kurtz Geo H ⊙ SO3-3632
E 91st intersects
E 91st Street ter intersects
E 92d intersects
E 92d Street ter intersects
E 93d intersects
E 93d Street ter intersects
E Bannister rd intersects

420
E 96th intersects
cor Truman Harry S School SO1-2073
9503 Cannady Willard R
9709 Hammond Geo E ⊙ SO1-6286
9723 Morrison Roger W ⊙
9801 Iiams Wm C ⊙ SO3-2949
9803 Price Chester M ⊙ SO3-0175
9805 Thompson Jerry T ⊙ SO3-0416
9807 Vacant
9809 McCrackin Glen F ⊙ SO3-1641
9811 Weiss Jerome R ⊙ SO1-3502
9815 Wright Ronald L ⊙ SO1-5338
E 99th intersects
10108 White Robt E ⊙ SO1-7171

303
REIGER RD—From W 72d N northwest to Baughhamm rd (1 blk west of N Summit)
W 72d N intersects
1003 Frans Harley jr ⊙ GE6-3894
1040 Walker Henry C
1312 Vacant
Baughham rd begins

446
RHINEHART RD—From Lee's Summit rd west and south to Unity Village
Little Blue rd intersects
— Pitt Fred ⊙
— Platter James H ⊙
— Snow Florence L ⊙ IN1-9298
— Spillman Chas F ⊙ CL4-6251
— Tucker Raymond R ⊙
Turner rd intersects
— Case Forest E ⊙ BR1-2979
— Coday Othel
— Faust Amos L BR1-1349
Holiday rd intersects
— Boin Wm M ⊙ BR1-2103
— Coday Bill L
— Murray Wm M BR1-1402
City limits

105
RICHARDS RD—From 1 blk south of W Harlem rd (Harlem) northeast ½ mile, 1 west of BC&QRR
10 Trans-World Airlines Inc central base GR1-4400
70 Airport Auto Park No 1 HA1-9185
Harlem ends
100 Kansas City Municipal Airport
Frontier Air Lines VI2-6252
US Weather Bureau
United Air Lines Inc (operations & ticket ofc) GR1-8100
Federal Aviation Agency Flight Service Station GR1-4572
Federal Aviation Agency-Air Route Traffic Control Center GR1-4352
Braniff International Airways Inc (ticket ofc and communication center) GR1-4288
Central Airlines (ticket ofc) BA1-3955
Hertz Corp The BA1-8455
Gilbert Joe Gift Shop GR1-4490
Gilbert Joe Gift Shop
Gilbert Joe Snack Bar
Avis Rent A Car (br) BA1-7774
Mutual of Omaha (Teletrip Insurance) VI2-9223
Great Lakes Airlines GR1-5484
Natl Car Rentals (br) GR1-2755
Trans Continental Airlines Agency GR1-5484
102 Airline Barber Shop VI2-7170
110 Air Cargo Terminals Inc HA1-5357
Braniff International Airways Inc Regional Flight Managers ofc HA1-0179
120 Post Office (air mail transfer ofc) GR1-4608
130 Airport Auto Park No 2 HA1-9194
300 Hertz Corp car rental BA1-5744
Avis Rent-A-Car BA1-7774
National Car Rentals GR1-2755
Gilbert Joe North Snack Bar
Ambassador Club
334 Delta Air Tele-Trip Insurance Inc (br) flight insurance VI2-9223
Continental Air Lines Inc ticket ofc GR1-3705
Ozark Air Lines Inc ticket ofc GR1-6515
Delta Air Lines Inc ticket ofc GR1-7673
Trans World Airlines Inc ticket ofc GR1-4400
Delta Air Lines Inc (frt ofc)
Emery Air Freight BA1-4346
Braniff International Airways Inc (frt ofc) GR1-4740
REA Express GR1-3906
Air Cargo Terminal Inc (frt ofc) VI2-4338
Trans World Airlines Inc (frt ofc) GR1-4400
Continental Airlines (frt ofc) GR1-3705
Aeronautical Radio Corp Inc VI2-1290
400 City Aviation Dept (airport operations) GR1-4946
Federal Aviation Agency (airport traffic control tower) BA1-4487
Federal Aviation Agency (Radar Maintenance) GR1-8256
Continental Air Lines Inc (reservation ofc) GR1-3700
Air Transport Association HA1-1484
City Airport Fire Station VA2-9149
Federal Aviation Agency System Maintenance Dist ofc GR1-7172
Federal Aviation Agency Systems Maintenance Sector no 44 GR1-3682
600 Braniff International Airways GR1-3708
836 United Air Lines Inc (air frt) GR1-1133
Wings & Wheels Inc (br) air freight VI2-5181
838 Aero Mechanics School GR1-8085

216
RICHMOND AV—From 7519 E 12th south (Not open bet 1 block south of E 12th and Blue River)
E 13th ends (not open)
Truman rd intersects
E 16th intersects
E 16th Street ter intersects (not open)
E 17th intersects
E 18th intersects

242
4726 Ellmaker Chas F ⊙ WA3-4202
4730 Henderson A Paul ⊙ WA3-1249
4734 Allison Larry N ⊙ WA3-6716
4738 Crowther Donald ⊙
4800 Miller Chas H ⊙ WA1-2935
4804 Hackett Robt L ⊙ WA3-1769
4808 Vacant
4812 Cagley Douglas K ⊙ WA3-3208
4816 Wilson Glenn H ⊙ WA1-0833
4824 Zimmerman Jas K ⊙ WA4-4007

244
6315 White Raymond FL3-3829
6319 Graham Shirley A Mrs ⊙ FL6-5416
6323 Speckman Geo H ⊙ FL3-8789
6324 Stringer Herman L ⊙ FL6-3745
E 64th intersects
6404 Wolf August F ⊙ FL3-2437
6407 Lapham Jas H ⊙ FL3-7948
6420 Young Chester E FL3-5740
6424 Good Fred FL6-0272
6432 Brown Wm J ⊙ FL3-7602
E 65th intersects
6500 Kasiah Edwin L FL3-2301
rear Hadley Myrtle Mrs
6501 Parsons Robt L ⊙ FL6-2417
6503 Yates Jas H ⊙ FL3-5806
6505 Yates Harold E ⊙ FL3-9885
6507 Yulich Geo R ⊙ FL3-9047
6513 Yates Jas T ⊙ RE1-7179
6517 Woody Grace Mrs ⊙
6523 Woody Harold E ⊙ FL3-7346
6524 Stamper Burler ⊙ FL3-4358
6601 Holway Dennis M ⊙ FL3-3245
rear Vacant
6603 Ames Lester P ⊙ FL6-5821
6605 Hartenstine Roy ⊙ FL3-2874
6609 McClure Nellie M Mrs ⊙ FL3-3696
6615 Sanders Clarence E FL6-3937
E 67th intersects
Dead end

246
E 67th intersects
6706 Wall Virgil W ⊙ FL3-7793
6708 Fields Lewis L ⊙ FL6-0498
6710 Barker Wm E ⊙ FL3-0841
6711 Shanahan John E ⊙ FL6-4933
6714 Sites Robt A Rev FL3-0126
6716 Morris LaVelle R Mrs ⊙ FL6-1631
6720 Frisbie Delbert W ⊙ FL6-5029
6723 Piantanida Eddie P
6725 Tomich Matt J ⊙ FL3-3285
E 68th intersects
6800 Marsh Fred J ⊙ FL3-2797
6801 Rose Margt L Mrs ⊙ FL3-1898
6802 Gossett Glenn E FL3-0297
6804 rear vacant
E 69th intersects
6901 Dingle Wm A ⊙ FL6-2198
6902 Ferney Herbert C jr ⊙ FL3-0261
6903 Stewart Marie O Mrs ⊙ FL3-5783
7144 MacElhern Gene J ⊙ FL3-2149
Gregory blvd intersects
7200 Fatino Tony A ⊙ FL3-0833
7204 Prater David C FL3-2665
7205 Spangler F Earl ⊙ FL3-2374
7208 King Paul G ⊙ FL3-6836
7209 Conrad Lawrence H ⊙ FL3-6801
7211 Sheahon John A ⊙ FL3-2220
7212 Conrad Chas M ⊙ FL3-8942

APPENDIX H

PREVIOUS REPORTS

PHASE I SITE CHARACTERIZATION REPORT

CITY OF KANSAS CITY, MISSOURI
HEALTH EMERGENCY HAZMAT SITE
KANSAS CITY, MISSOURI

JUNE 1994

93-482-4
KCMOHS

Burns & McDonnell Waste Consultants, Inc.
Engineers-Geologists-Scientists
Overland Park, Kansas

TABLE OF CONTENTS

List of Tables

List of Figures

* * * * *

EXECUTIVE SUMMARY

This report summarizes results of a Site Characterization (SC) Investigation performed at the Kansas City, Missouri Health Emergency Hazmat Site (HEHS); hereafter referred to as the site. The HEHS consists of a fenced concrete slab area containing a wooden building and a concrete brick shelter. The HEHS was formerly utilized for temporary waste storage. The city property surrounding the HEHS has been used in the past for agricultural and office purposes. The investigation consisted of collecting soil and surface water samples from the HEHS and the adjacent city property. Sampling was completed in March and April 1994 in accordance with work plans approved by the Missouri Department of Natural Resources (MDNR).

The SC was performed to evaluate the nature and extent of hazardous substances resulting from the past use of the HEHS for temporary waste storage. Sampling at the HEHS and adjacent property was performed in areas most likely to be contaminated by unintended releases from the HEHS. A sample was also collected from an upgradient location that would be unaffected by operations at the HEHS. Collection of an upgradient sample was requested by MDNR to estimate background soil conditions on the property.

Soil samples collected beneath the HEHS concrete pad exhibited evidence of past unintended releases of petroleum-related organics and herbicides (Dicamba and 2,4-D). However, the levels of these compounds detected in the subsurface soil samples were within past "Any-Use" Levels proposed by the Missouri Department of Health (MDOH).

Petroleum-related organics, herbicides (Dicamba and 2,4-D), metals, and chlorinated pesticides (lindane, DDD, DDE, and DDT) were detected in sediment samples obtained from a concrete drainage trench in the HEHS facility. Levels of metals and 2,4-D detected in sediment samples from this trench exceeded health-based standards proposed by MDOH for residential areas. However, investigation data did not indicate that a significant migration of these compounds from the HEHS had occurred. 2,4-D was not detected in soil samples

obtained from the adjacent property and off-site lead levels were comparable to levels detected at the upgradient sampling location. Based on this data, past HEHS operations have apparently had little impact on the adjacent property.

The principal chemicals of concern identified during the SC were DDT, DDE, DDD, and lead, based on the frequencies and levels detected in surface soil samples. The highest detected level of DDT in surface soil at the site was at the upgradient sampling location. The lead concentrations reported for this upgradient surface soil sample were also elevated. Based on this data, the HEHS was not considered the principal source of these hazardous substances, which were detected in several off-site samples.

Drainage structure sediment sampling indicated that sediment from nearby drainage structures on the property had levels of DDT, DDD, DDE, and lead above MDOH Any-Use levels. The chlorinated herbicide, 2,4-D, was also detected in a property drainage structure. A hydraulic connection between these drainage structures and the HEHS has not been identified. As a result, the source of hazardous substances in the drainage structure is not assumed to be the HEHS. Hazardous substances concentrations in surface water samples from these structures were low, despite the elevated hazardous substances levels detected in sediment. Based on this data, releases to surface water from the property currently appear to be low.

Hazardous substance mobility at the site was indicated to be low. Subsurface soil samples were obtained to a depth of 9 feet at sampling location CS-2, the area of highest detected chemical levels. Analytical data obtained for this location indicated hazardous substance levels decreased with depth. Off-site samples obtained from nearby locations also had low hazardous substance levels, indicating a low horizontal mobility potential. The principal property chemicals of concern (lead, DDT, DDD, and DDE) have a low solubility and high potential to adsorb to soil. Based on these characteristics, the potential for these compounds to migrate in the subsurface is low. This was

confirmed by a significant decrease in DDT, DDD, DDE, and lead levels in subsurface soil samples obtained from depths of 1.5 to 3.0 feet.

Erosion of soil and off-site migration of sediment having adsorbed chemicals along the ground surface appears to be effectively controlled by thick, vegetative growth in the area surrounding the HEHS.

The SC results indicate that accidental releases within the HEHS have impacted sediment within the facility drainage trench and subsurface soil beneath the concrete pad. The subsurface soil hazardous substance levels are consistently within health-based standards and detected concentrations decrease with vertical depth and horizontal distance from the area of highest detected chemical concentrations. Site sampling data indicate the area impacted by past HEHS releases is limited to the immediate site area. Off-site sampling results did not indicate that hazardous substance migration from the HEHS is a current or past concern.

Past property use and urban contributions have evidently resulted in elevated levels of DDD, DDE, DDT, and lead in the shallow surface soil. These substances were also detected in drainage structure sediment at elevated levels. The presence of these substances at levels exceeding health-based standards will limit future uses of the property; however, considering the remote property location, no existing exposure to human health or the environment has been identified.

* * * * *

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

This report summarizes the results of the Phase I Site Characterization (SC) Investigation conducted at the Health Emergency Hazmat Site (HEHS) located at 8100 Ozark Road in Kansas City, Missouri. Burns & McDonnell was retained by the current property owner, the City of Kansas City, Missouri, to perform the SC in response to the corrective action requirements of the Missouri Department of Natural Resources (MDNR) Administrative Order #93-HW-004. The purpose of the Phase I SC is to evaluate the nature and extent of hazardous substances resulting from past unintentional releases from the HEHS, if any, and assess whether potential future exposure concerns exist at this location.

The results of Phase I of the investigation are presented in this report. Phase I SC activities included the collection and analysis of surface and subsurface soil, drainage trench and drainage structure sediment, and surface water samples. These results have been used to screen the site for potential hazardous substances, evaluate the nature and extent of the substances, and identify locations which may require further investigation.

1.2 REPORT ORGANIZATION

This report presents the details of the investigation of the HEHS. This section is preceded by an executive summary of the SC report's contents. The purpose of the SC and the report organization are presented in Section 1.0. Section 2.0 contains background information and a site description. Geology, hydrogeology, surface drainage, and the climate of the site area are discussed in Section 3.0. Sampling activities and field work are described in Section 4.0. Section 5.0 discusses the nature and extent of hazardous substances based on the findings of soil and groundwater sampling results. The potential mobility of hazardous substances indicated by findings of the SC is discussed in Section 6.0. Section 7.0 presents a risk evaluation developed from the findings of the SC. Lastly, conclusions and recommendations developed for the site are presented in Section 8.0.

Appendices following this document include the following: Appendix A - Field Technical Memorandum, Appendix B - Laboratory Analytical Results, and Appendix C - Analytical Data Qualification Summary.

* * * * *

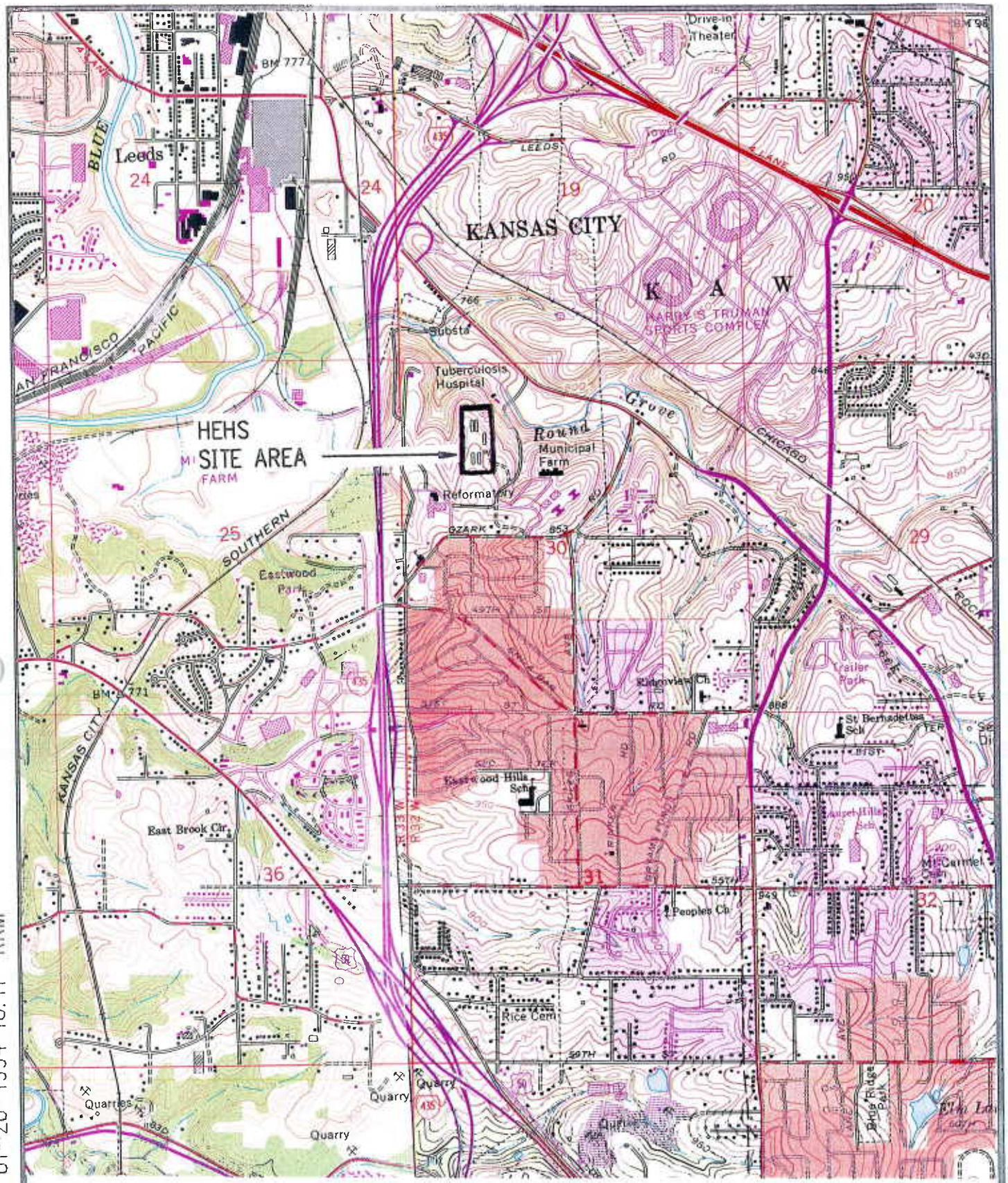
2.0 HISTORICAL EVALUATION AND SITE DESCRIPTION

2.1 LOCATION AND DESCRIPTION

The Kansas City HEHS is located at 8100 Ozark Road in Kansas City, Missouri. The HEHS portion of the city property, operated by the Kansas City Health Department, is limited to a fenced area containing one wooden building and a concrete brick shelter on a concrete slab. The site is surrounded by property operated by other city agencies and located on a hill bounded by Round Grove Creek on the north, access roads to Ozark Road on the east and south, and Interstate Highway 435 to the west. The property is located approximately in the Southeast quarter of the Northwest quarter of the Northwest quarter of Section 30, Township 49 North, Range 32 West, in Jackson County. The site location is shown in Figure 2-1.

Land use in the vicinity of the HEHS includes undeveloped, industrial, commercial, and residential areas. The property immediately surrounding the site includes wooded areas and steep hills. Traffic to the site area is restricted by locked gates on access roads from Ozark and Raytown Roads. The area immediately surrounding the HEHS is not currently in use. Portions of the city property adjacent to Ozark and Raytown Roads contain municipal buildings; however, the nearest active facilities are the municipal correctional facility approximately 1,000 feet southeast and the City Animal Shelter 500 feet north-northeast of the site.

The property immediately north of the site is wooded. Farther north, at the bottom of the hill on which the site is located, are animal shelter buildings and to the northwest is an electrical substation on Raytown Road. Immediately east of the HEHS is a row of several abandoned concrete block shelters previously used for livestock and dog pens. The municipal corrections facility and several abandoned buildings lie southeast of the property. The nearest residential area is located approximately 1,500 feet south of the site on the south side of Ozark Road. Commercial and industrial areas lie to the southwest approximately 1,300 feet from the site. West of the site is a



Burns & McDonnell Waste Consultants, Inc.

Figure 2-1

SITE LOCATION MAP
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

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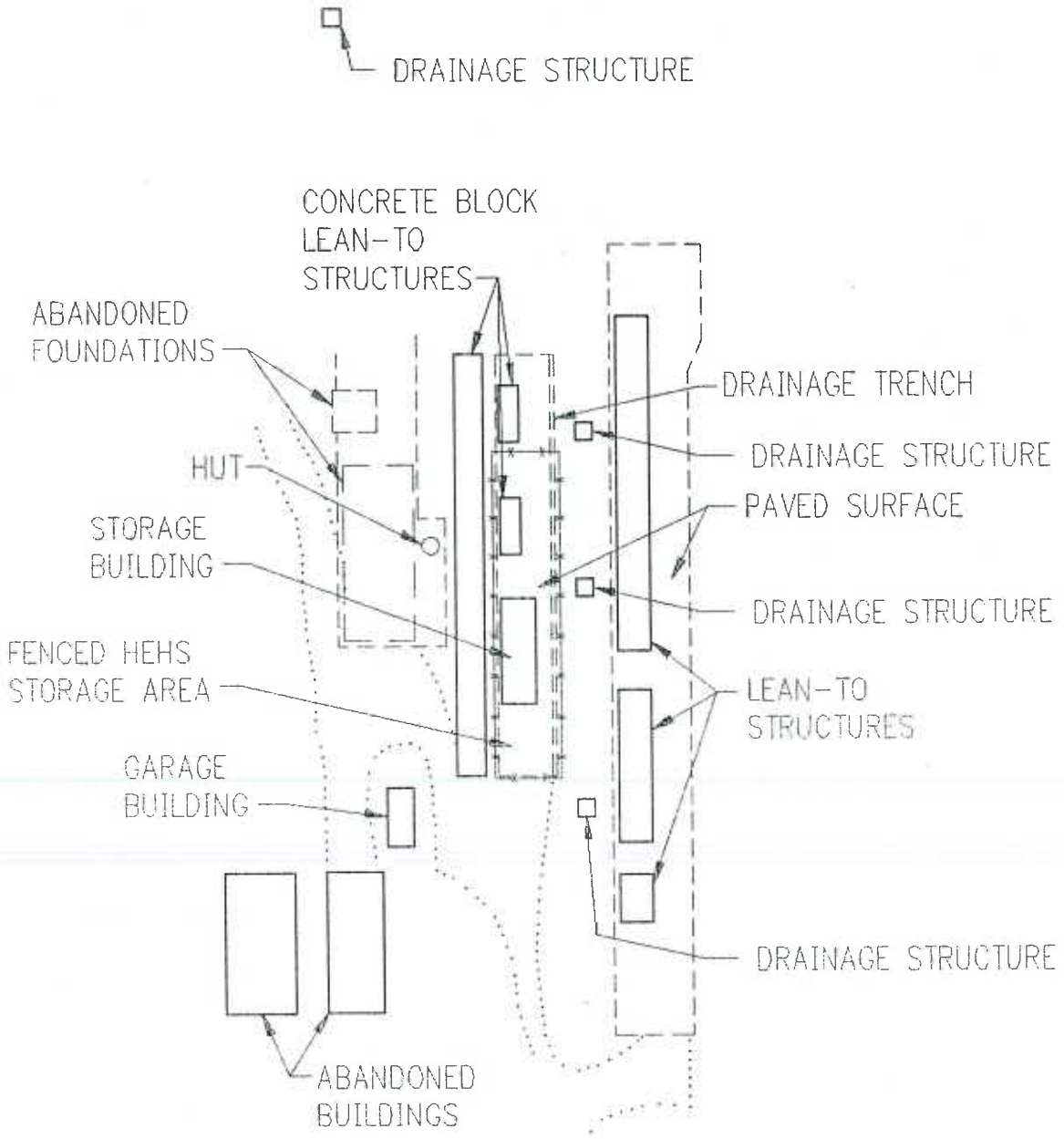
closed municipal landfill. Figure 2-2 shows the site and adjacent property layout. Primary features of the area include the fenced HEHS compound, the lean-to buildings east of the HEHS, three abandoned buildings south and southwest of the HEHS, a long lean-to building and circular hut west of the HEHS, and two abandoned building foundations.

The HEHS consists of a fenced-in compound which contains a rectangular, approximately 30- by 60-foot, white, wood frame building and 20- by 40-foot, concrete block, lean-to storage shelter. The rectangular concrete slab that underlies and surrounds these buildings is approximately 200 feet long from north to south and 50 feet wide from east to west. The northern 40 to 50 feet of the slab is not fenced and was not used by the Health Department. Drums, containers, and bottles of various chemicals inside the fenced HEHS area were removed by Heritage Remediation Services in January 1994. Heritage Remediation Services packed, characterized, transported, and disposed of these wastes. The results of the waste stream sampling performed by Heritage Remediation Services is summarized in Table 2-1.

An approximately 2- to 4-inch deep concrete drainage channel runs south to north on the east side of the concrete slab within the HEHS area. The trench was evidently intended to direct slab storm water drainage to the north. However, at this time the drainage channel is almost entirely filled with sediment. An 18-inch tall, concrete wall runs along the north, east, and south edges of the slab. A wall, approximately 5-foot tall, runs along the west side of the slab. These concrete walls direct site storm water runoff to the drainage trench and prevent surface water run-on from the west.

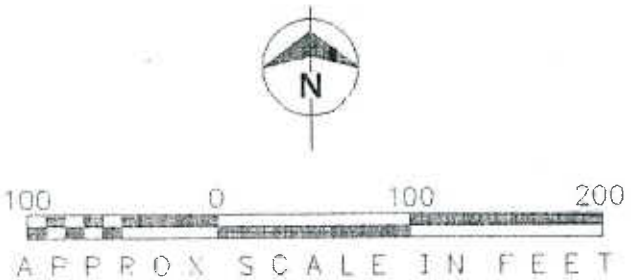
Immediately north of the fenced storage area was an additional concrete block lean-to shelter, which was demolished by another contractor while the field investigation was taking place. The slab ends just north of the former location of this shed. At this point, the drainage trench leads to the ground surface.



NOTE:
THE HEHS SITE CONSISTS OF FENCED HEHS STORAGE AREA

LEGEND

- ACCESS ROAD
- FENCE
- CONCRETE SLAB
- FOUNDATION



Burns & McDonnell Waste Consultants, Inc.

Figure 2-2
SITE PLAN
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

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Table 2-1
Contaminants Identified In Composite Waste Samples by Heritage Remediation Services Kansas City Health Emergency Hazmat Site

Waste Stream Number	Composite Waste Stream Designation	Analytical Paramteters	Analytical Result
1	Acid, Liquid, Solids	Phenolics	0.25 mg/kg
	Waste Corrosive Liquids (Acids)	Chlorides	9000 mg/kg
		Acidity	240000 mg/kg
		pH	< 1.0
2	Oil/Water/Solids	Ignitability	> 212 Degrees F
	Used Oil and Water	Oil	730000 mg/kg
		Phenolics	41 mg/kg
		Extractable Organic Halides	2000 mg/kg
3	Solvents/Water/Solids	Ignitability	<67 Degrees F
	Waste Flammable Liquids	Total Halogen	810 mg/kg
4	Halogenated Flammable Liquid/Solids	Methanol	8900 mg/kg
		Isobutanol	220 mg/kg
		N-Butyl Alcohol	200 mg/kg
		Cyclohexanone	3600 mg/kg
		2-Ethoxyethanol	1800 mg/kg
		2-Nitropropane	61 mg/kg
		Octane	estimated 400 mg/kg
		Nonane	estimated 560 mg/kg
		2-Ethoxyethyl Acetate	estimated 700 mg/kg
		2-Methylnonane	estimated 440 mg/kg
		Trimethylbenzene	estimated 410 mg/kg
		2,6-Dimethylnonane	estimated 300 mg/kg
		2-Methylnaphthalene	estimated 530 mg/kg
		1-Methylnaphthalene	estimated 310 mg/kg
		3,4-DDD	estimated 360 mg/kg
		2,4-DDT	estimated 870 mg/kg
		Benzene	2200 mg/kg
		Ethyl Benzene	1200 mg/kg
		Methylene Chloride	1000 mg/kg
		Tetrachloroethene	10000 mg/kg
		Toluene	estimated 20000 mg/kg
		1,1,1-Trichloroethane	3500 mg/kg
		Total Xylenes	estimated 62,000 mg/kg
		Methylcyclohexane	estimated 530 mg/kg
		Ignitability	< 67 Degrees F
		2-Ethoxyethyl Acetate	Estimated 280 mg/kg
		Nonane	Estimated 460 mg/kg
		Undecane	Estimated 310 mg/kg
		2-Methylnaphthalene	Estimated 260 mg/kg
		Dimethylnaphthalene	Estimated 170 mg/kg
		3,4-DDD	Estimated 210 mg/kg
		2,4-DDT	Estimated 480 mg/kg
		Total Halogen (TX)	50000 mg/kg
		Specific Gravity	0.93
		PH	5.80
		Chloride	6000 mg/kg
		Total Chromium	50 mg/kg
		Total Lead	202 mg/kg
		Total Zinc	69 mg/kg

Table 2-1
Contaminants Identified In Composite Waste Samples by Heritage Remediation Services Kansas City Health Emergency Hazmat Site

Waste Stream Number	Composite Waste Stream Designation	Analytical Paramteters	Analytical Result
5	Flammable Solids (Paint/Glue Solids)	Ignitability	101 Degrees F
6	Halogenated Non-Flammable Liquids	Ignitability Methanol N-Butyl Alcohol 2-Ethoxyethanol Acetone Ethylbenzene Toluene Total Halogen	>212 Degrees F 5.1 mg/kg 6.9 mg/kg 16 mg/kg 7 mg/kg 4.5 mg/kg 1.6 mg/kg 10000 mg/kg
7	Lab Pack Drums (55 Gal) Ignitable Waste	*	*
8	Lab Pack Drums (20 Gal) Ignitable Waste	*	*
9	Lab Pack Drums (5 Gal) Ignitable Waste	*	*
10	Waste Caustic Solid	pH Chromium Cyanide	12.9 2.7 mg/kg 0.94 mg/kg
11	Non-Hazardous Special Waste Liquid	Phenolics Lead Chemical Oxygen Demand pH	0.59 mg/kg 25 mg/lkg 280 mg/L 6.1
12	Calcium Hypochlorite and Debris	Chromium pH Phenolics	6.9 mg/kg 11.8 37 mg/kg
13	Waste Corrosive Liquids Alkaline, Liquid	Cyanide Phenolics Oil and Grease pH Ignitability Oil	5.0 mg/kg 1600 mg/kg 25000 mg/kg 13.2 > 212 Degrees F 780000 mg/kg
14	Non-RCRA Regulated Solids	Ignitability	> 212 Degrees F
15	Soil Contaminated With Pesticide Waste Poisonous Solids (Chlordane)	Ash Barium, Total Chromium, Total Copper, Total Lead, Total Mercury, Total Zinc, Total Chlordane	730000 mg/kg 121 mg/kg 14 mg/kg 11 mg/kg 17 mg/kg 4.8 mg/kg 50 mg/kg 1.34 mg/kg
16	Solvent With Insecticide Waste Flammable Liquids, Poisonous	Toxaphene pH Chloride Lead, Total Nickel, Total	61230 mg/kg 9.1 18000 mg/kg 11 mg/kg 267 mg/kg

* No data reported

North of the HEHS, the ground surface slopes down to a flat area north and northeast of the HEHS. Farther north of the flat area, the surface slope steepens into a wooded area. Promiscuous dumping of solid waste had apparently occurred along this slope in the past before the gates to the property were installed. This solid waste was being removed by another contractor concurrently with the SC field activities. This waste included piles of household waste, construction debris, and miscellaneous materials. The area containing solid waste, in addition to the rest of the property surrounding the HEHS, is not operated by the Health Department.

A concrete drainage structure is also located on the hill north of the HEHS. The structure, which contains several influent or effluent pipes, is approximately 5 feet square and extends above the ground surface. Containers, debris, and sediment were observed in the bottom of the structure. Farther downhill, northwest of this structure, is another drainage structure located slightly uphill of the animal shelter buildings.

Adjacent to the east side of the HEHS is a row of trees. East of these trees is a concrete slab on which three concrete brick shelters stand. These buildings apparently were formerly livestock pens or stables and were most recently used as a component of the Kansas City Police Department K-9 dog training program. East of the former dog training area is a steep hill. Several solid waste piles on this slope were being removed by a separate contractor concurrently with the SC field activities. A small pond is located at the bottom of this slope.

There are three additional drainage structures between the HEHS and the former dog training area. These structures are situated southeast of the HEHS, east of the HEHS storage building, and east of the northern end of the fenced HEHS area.

Immediately west of the HEHS fenced storage area is an approximately 20-foot by 240-foot concrete block storage shed. This shed is overgrown with vegetation and contains wooden baskets and miscellaneous wood pieces. Farther west are remnants of the foundations of two buildings. A concrete slab surrounding these buildings extends north from the foundations. Aerial photographs indicate that this concrete slab was once used as a parking lot.

2.2 SITE HISTORY

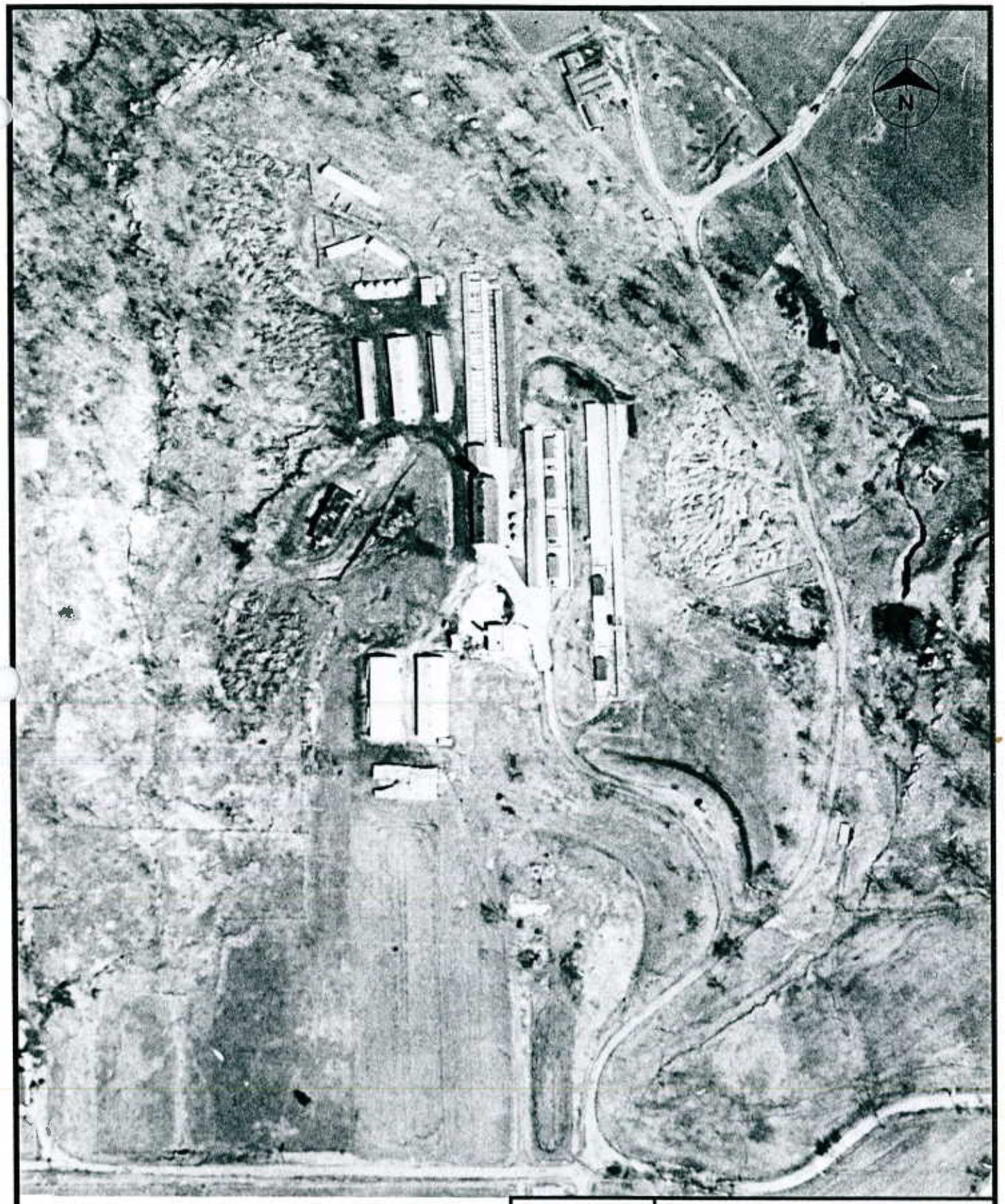
Historical Site information was primarily obtained from a work plan prepared by Terracon, Inc. Historical information in the Terracon Work Plan was reportedly obtained from conversations with current and former Kansas City, Missouri, city employees familiar with historical site activities. Historical maps and aerial photographs were also used in evaluating the site history.

Most of the existing site structures can be seen in a 1964 aerial photograph of the site area included as Figure 2-3. Prior to 1964, on-site buildings were used for livestock feeding operations associated with a municipal farm. From the mid-1960s to late 1972, the City Health Department used the site for administrative purposes. In the fall of 1972, Health Department programs were transferred to the Public Works Department, who utilized the facility until 1980. Figure 2-4 is an 1980 aerial photograph of the site area. During this time, a portion of the facility was used to blend and package rat bait for a federal rodent control program. In 1983, the Health Department may have initiated a partial cleanup of the site; however, details of the facility closure activities are not available.

Following the cleanup in 1983, the site was used for the temporary storage of waste chemical products. Waste rat poison, waste chemicals from school laboratories, and other materials of unknown origin were temporarily stored at the site until 1993. An aerial photograph of the site area in 1990 is included as Figure 2-5.

Between 1964 and 1980, the two buildings whose foundations are seen west of the HEHS were demolished. Also during this period, two concrete brick shelters on the pad where the HEHS stands were demolished and replaced with the wooden frame building which currently exists in the HEHS fenced storage area.

* * * * *



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SCALE IN FEET

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Figure 2-3

1964 AERIAL PHOTOGRAPH
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

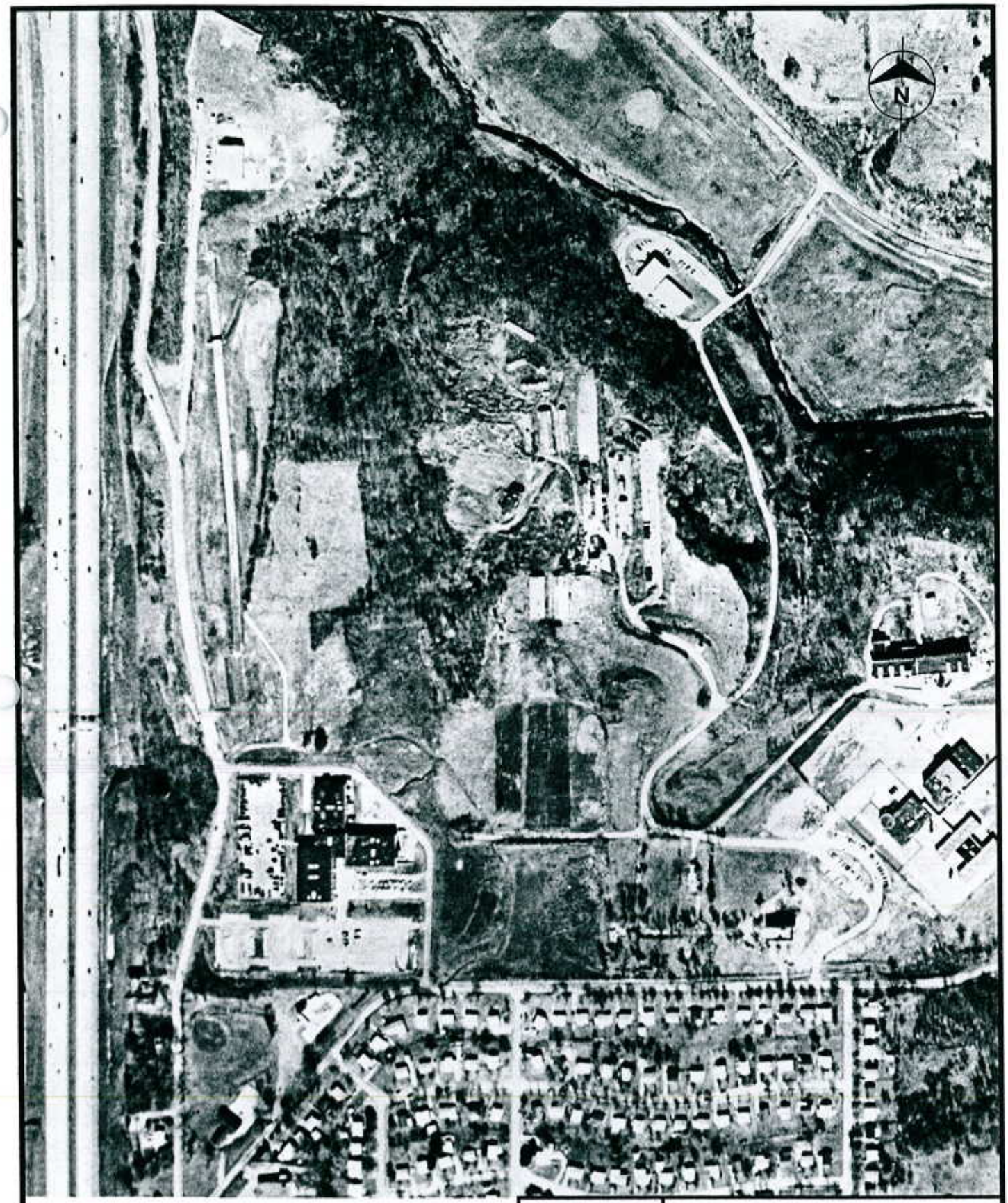

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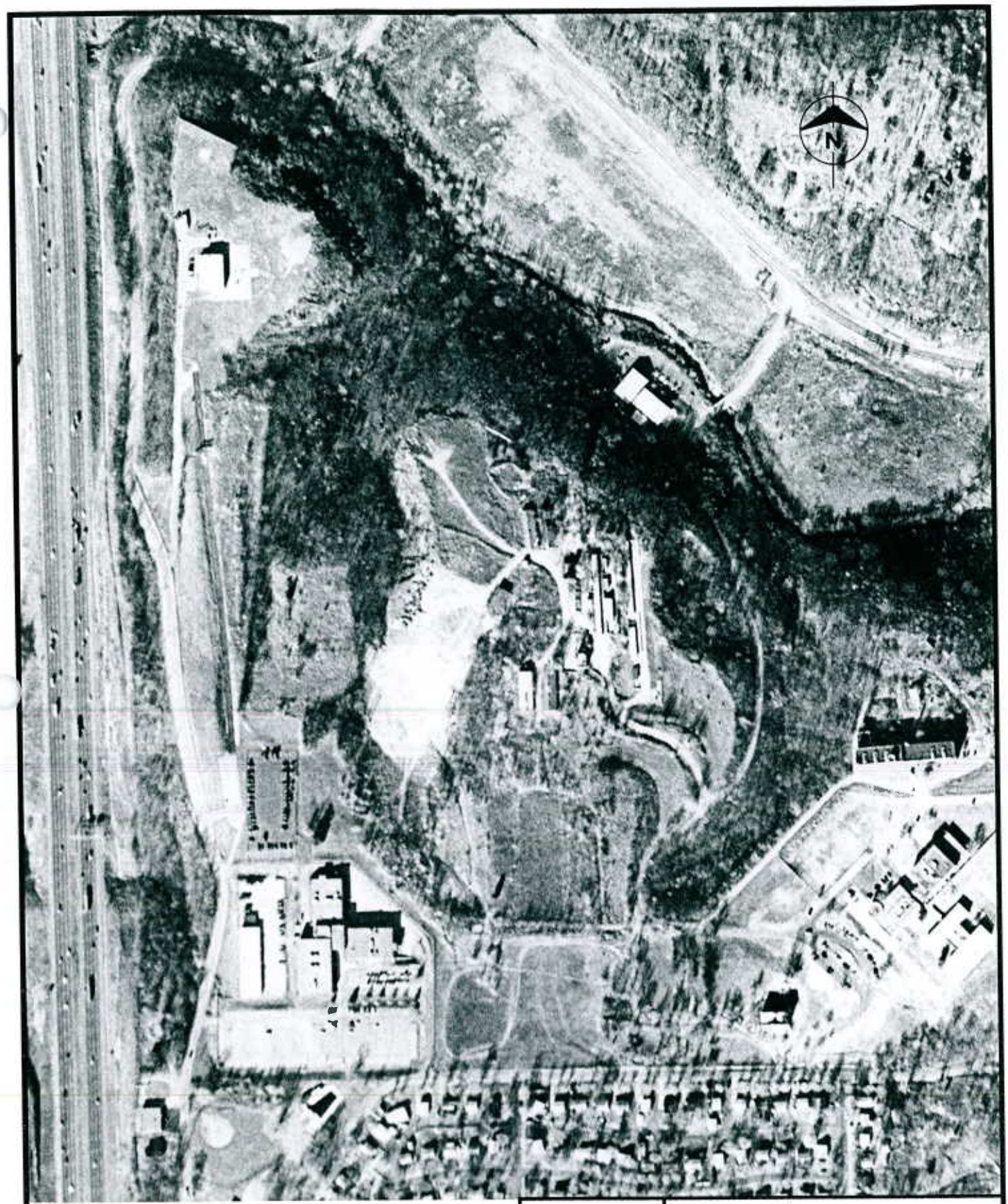
Figure 2-4

1980 AERIAL PHOTOGRAPH
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE



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SCALE IN FEET

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Figure 2-5

1990 AERIAL PHOTOGRAPH
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

3.0 PHYSICAL SETTING

3.1 GEOLOGY

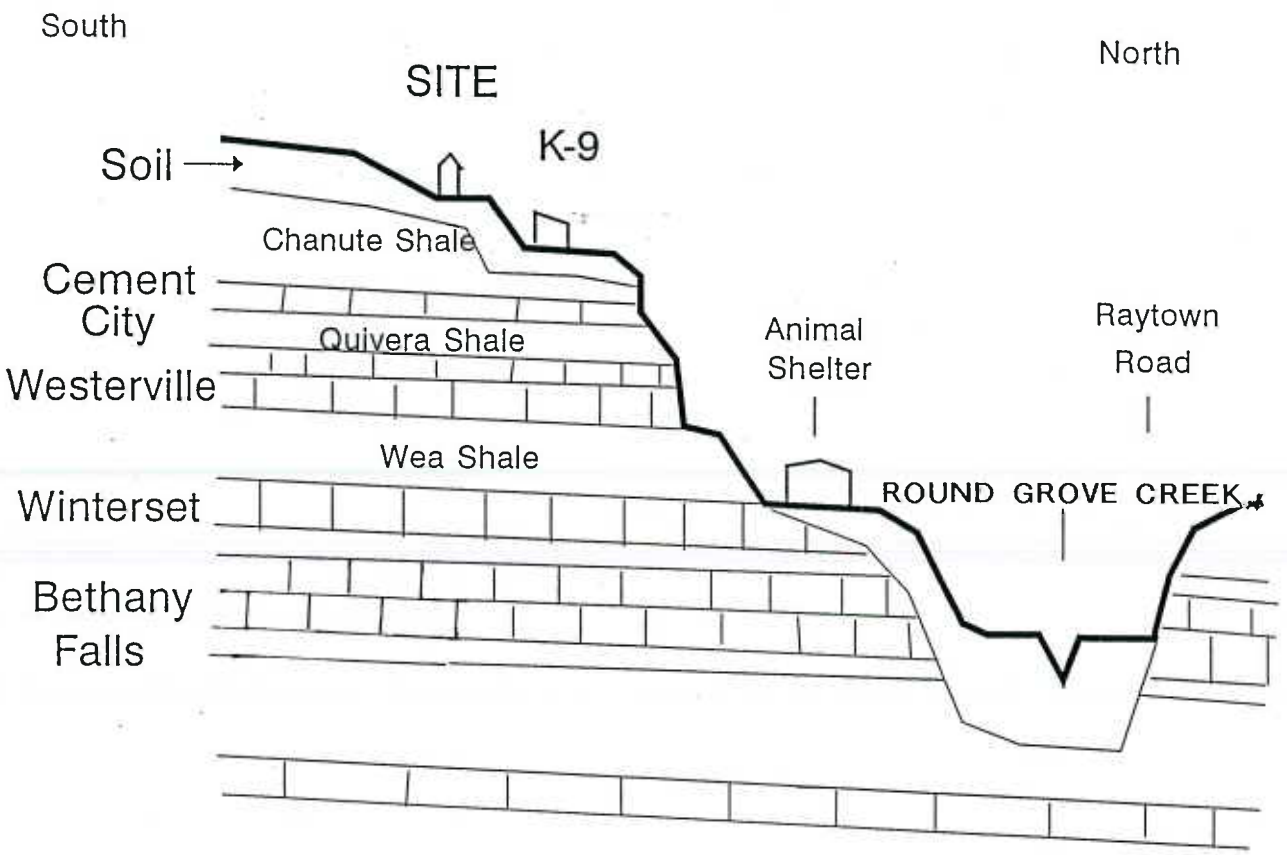
3.1.1 Regional Geology

The site is located within the Osage Plains physiographic province. This area is characterized by rolling hills developed on layered sedimentary rock strata of uneven hardness and thickness. The limestone bedrock generally form ledges while the softer shales form gentle slopes. Pennsylvanian age bedrock, covered with soil, underlies the site and can be seen in rock outcrops exposed by road cuts.

According to the Soil Survey of Jackson County (Preston, 1984), the topsoil in the vicinity of the site is classified as Knox-Urban land complex with 5 to 9 percent slopes. This soil complex consists of deep, moderately sloping, well drained Knox soil and Urban land on narrow, convex ridges. Permeability is moderate, ranging from 1.4×10^{-3} to 4.23×10^{-4} and runoff is rapid. Soil pH ranges from 5.6 to 7.3. The shrink-swell potential of the soil is low to moderate. Typically, the Knox soil has a surface layer of very dark, grayish brown, friable, silt loam about 7 inches thick. A brown silt loam extends to a depth of up to about 71 inches below the surface layer.

The bedrock underlying the site belongs to the Kansas City Group. It consists of interbedded limestone and shale strata with some sandstone and has an average thickness of approximately 215 feet (McCourt et al., 1917). The Chanute Shale is the uppermost strata beneath the site, as determined by visual inspection of rock outcrops in the vicinity. The interbedded nature of the Kansas City Group is shown in Figure 3-1, a generalized geologic profile of the site.

Bedrock in this part of the Kansas City area dips approximately 6 feet per mile to the northwest. A series of northwest-southeast anticlines and synclines are located in western Jackson County, providing local undulation of the bedrock strata. The Blue Ridge Anticline is located to the east and the



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Burns & McDonnell Waste Consultants, Inc.

FIGURE 3-1

SITE GEOLOGIC PROFILE
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

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Centerview-Kansas City Anticline is west of the site (McCracken, 1971).

Several of the limestone units of the Kansas City Group are quarried and mined for manufacture of portland cement, crushed stone, rip rap, and dimension stone. The favored geologic units for underground mining are Bethany Falls Limestone and Argentine Limestone. The mines are room and pillar type, where rock pillars are left in place to support the roof. Since an underground mine or fractures caused by a mine collapse could open migration pathways for contaminants, an evaluation of information on existing mines in the region has been made to confirm that underground mines do not exist beneath or in the vicinity of the site. This evaluation determined that the nearest mines include the Centropolis Mine approximately 2 miles north of the site, the Old Botsford Quarry in the southwest quarter of the northwest quarter of Section 25, Township 49 North and Range 33 West, approximately 4 miles east of the site, and the Union Quarry approximately 2 miles southwest of the site. These mines are in Bethany Falls Limestone and are currently inactive (Whitfield, 1981). Based on the distance of these mines from the site and their relative depths, past mining activities do not pose hazardous substance mobility concerns at this site.

3.1.2 Site Geology

Soil samples collected during the investigation reached a maximum depth of approximately 9 feet within the bounds of the HEHS. The upper 6 to 18 inches of soil across the site, except under the HEHS concrete slab, was black, highly organic topsoil. Below the topsoil was stiff, light brown clay. This clay extended to the bottom of all soil probes, including the 6- and 9-foot deep soil probes near the northeast corner of the HEHS. The southern portion of the HEHS concrete slab appeared to be underlain by grey clay, sand, and gravel fill material to a depth of at least 3 feet. This material was significantly different from the stiff, light brown clay observed beneath the topsoil on the rest of the site. Rock outcrops were observed along steep cliffs in the site area. Visual inspection indicated that the Chanute Shale is likely the uppermost bedrock strata beneath the site.

3.2 HYDROGEOLOGY

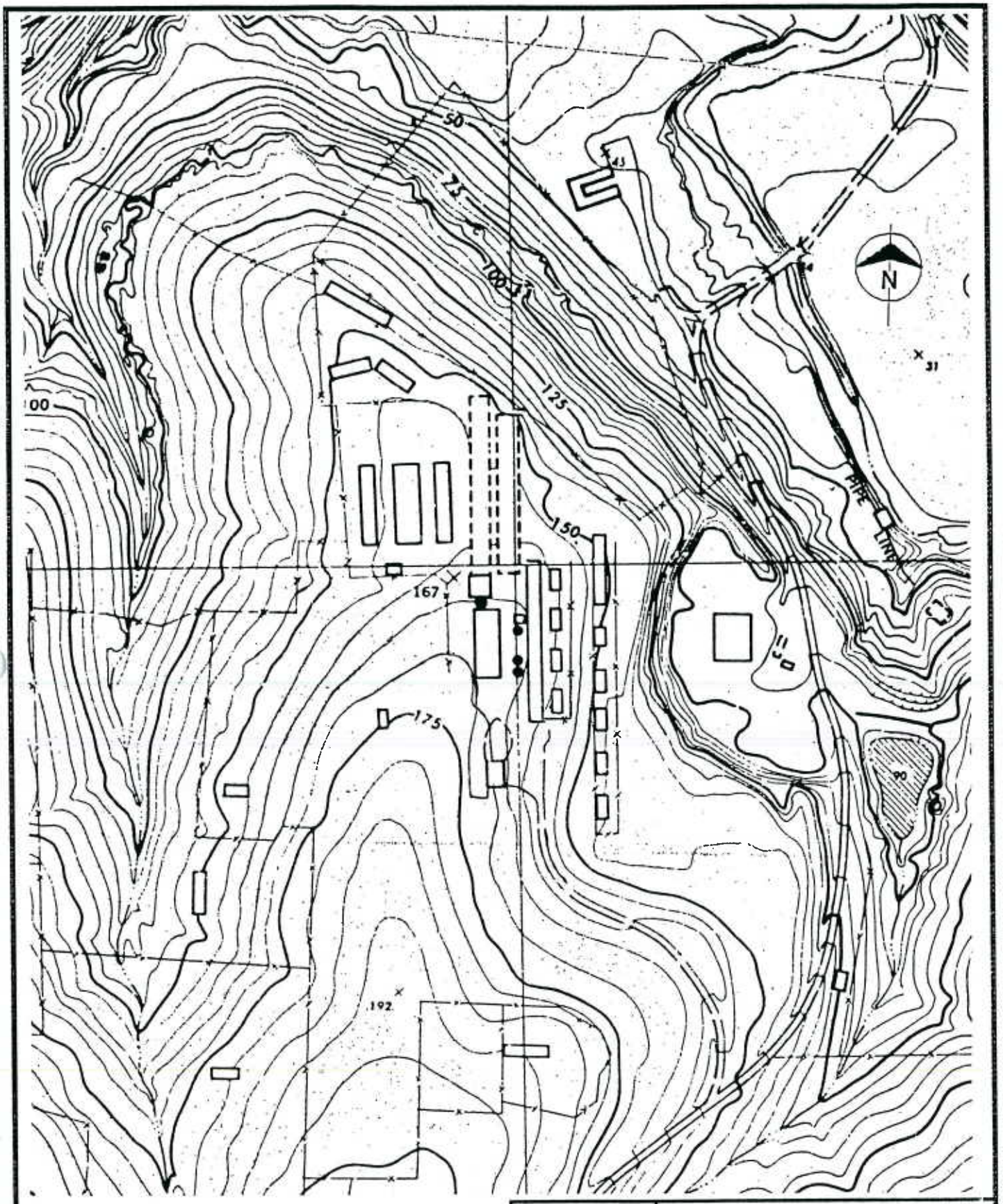
Jackson County is located within the Saline Groundwater Province. The low permeability of the Pennsylvanian Bedrock beneath the site impedes groundwater movement both laterally and vertically. Due to this flow impediment, little opportunity exists for groundwater recharge and discharge. Well yields from the Pennsylvanian Strata are generally less than 50 gallons per minute (Homyk et al., 1967). Groundwater movement is expected to be primarily along fracture and bedding planes. Where present, shale layers will impede vertical groundwater movement. Groundwater was not encountered in soil probes at the site.

Unintentional releases from the site could impact shallow groundwater perched above the uppermost shale bedrock layer. Shallow groundwater in the vicinity of the site is expected to flow northeast and northwest and surface at rock outcrops along the steep slopes east and north of the site. Groundwater releases to the surface could potentially drain to Round Grove Creek, a tributary of the Blue River. Round Grove Creek enters the Blue River approximately 2/3 mile west of the site. The Blue River enters the Missouri River approximately 6 miles north-northeast of the site.

The low to moderate permeability of the unconsolidated materials overlying the bedrock yields little recharge to the shallow groundwater. As a result, groundwater to surface water releases at the site would be expected to be low and limited to periods of wet weather. Based on the local geologic conditions, accidental releases from the site would not be expected to impact regional groundwater quality.

3.3 SURFACE DRAINAGE

As indicated by a 1955 topographic map (Figure 3-2), surface drainage from the site flows into Round Grove Creek, a tributary of the Blue River. The site is located approximately 2/3 mile east of the Blue River. The Blue River discharges into the Missouri River approximately 6 miles northeast of the site.



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SCALE IN FEET

TOPOGRAHIC MAP OBTAINED FROM CITY OF KANSAS CITY

Burns & McDonnell Waste Consultants, Inc.

FIGURE 3-2

TOPOGRAPHIC SURVEY MAP
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

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The site is located on a hillside which slopes north and east. Exposed foundations of existing and past buildings and large paved areas surrounding several buildings cover a large portion of the ground surface near the HEHS. These surface features control the direction and velocity of storm water runoff and effectively direct surface water flow away from the HEHS facility. Storm water drainage west of the site is generally directed to the north along a former parking lot concrete slab slope in that direction. Runoff originating upgradient (west) of the HEHS is effectively diverted away from the HEHS by the parking lot slope and by the foundations of upgradient, abandoned buildings.

The ground surface on the hillside downgradient (north and east) of the HEHS is thickly vegetated without distinct drainage channels. The absence of erosion suggests that storm water runoff quantities are low or flow from the site is in a sheet flow pattern. A low, flat area was observed north of the HEHS and dog training buildings. Runoff directed to the north by area building foundations would pool in this low area during wet weather periods.

On-site drainage is primarily controlled by the slope of the slab surface. Water flowing on the slab is directed to the north end of the slab by a sloped drainage channel. Runoff velocity is likely slow due to the very gradual slope of the slab. Due to the localized slab settlement, it appears that the slab and trench low point is not at the far north end of the slab as intended, but at a point approximately 20 feet south of the north end of the slab. At the time of the field survey a thin, but large area of sediment was present in the trench and on the concrete slab at this apparent low point. Storm water runoff pooled in this low area during the field investigation infiltrated into the ground beneath the slab within 6 hours of the end of precipitation.

Five concrete drainage structures in the vicinity of the site apparently serve as components of a storm water drainage system. The locations of four of these structures are shown in Figure 2-2. Water entering the drainage structure southeast of the HEHS area appeared to discharge to a pipe exiting through the north wall of the structure. Two additional drainage structures were located immediately north of the southeast structure, but were not

sampled during the field investigation. One structure is located east of the north end of the HEHS storage building and, the other is east of the northern end of the fenced area. It is believed that these structures are interconnected, but the purpose or extent of this drainage control system has not been determined.

Located on the hillside north of the HEHS is another concrete drainage structure. Several pipes were observed in this structure. Flow was observed entering the structure in two pipes from the southeast and two pipes from the southwest. Water drained from the structure through a single pipe which exited to the northwest. Another drainage structure, not shown in Figure 2-2, was observed at the bottom of the hill north of the HEHS. The fifth structure is located south of and slightly uphill from the animal shelter northeast of the site. Each drainage structure is approximately 5 feet square and extends above the ground surface. Drain inlets, the source of water in these structures, were not observed.

3.4 CLIMATOLOGY

Jackson County, Missouri, has a modified continental climate characterized by warm to hot summers, cold winters, moderate surface winds, maximum precipitation in the warm season, and frequent changes in the weather from day to day. The normal yearly precipitation for the area is approximately 37 inches. More than 75 percent of the annual moisture normally falls during the growing season, April through September. Only 11 percent of the annual precipitation falls during the winter months (NOAA, 1980). The 2-year 24-hour rainfall in Jackson County is between 3 and 3.5 inches (Hershfield, 1961).

Annual temperature extremes range from -8° to 106°F with an average daily temperature of 54.4°F. Prevailing winds come from a southerly direction, with the exception of the cold months of December through March, which have considerable wind from the north or northwest. The average wind speed is 11 miles per hour (NOAA, 1985).

* * * * *

4.0 INVESTIGATION ACTIVITIES

4.1 GENERAL

This section of the report summarizes the Phase I SC field activities. Field activities at the site began on March 29, 1994, and were continued through April 1, 1994. The field activities included collection of surface soil, subsurface soil, and sediment samples. In addition, storm water samples were collected during a period of precipitation on April 11, 1994. Details of the field work are described in the Field Technical Memorandum in Appendix A.

All field work was conducted in conformance with procedures established in the work plan. Sample locations proposed in the work plan were modified in the field based on field observations and discussions with the MDNR representative at the site. Sampling locations were chosen to sample the most likely areas to be impacted by accidental hazardous substance releases from the site.

The purpose of the Phase I SC was to screen the site for hazardous substance residuals. Samples were collected in the locations most likely to be impacted by the temporary storage of waste materials in the HEHS area. Figure 4-1 presents the locations where samples were collected during the Phase I SC. These locations included the following areas:

- Subsurface soil under the concrete slab in the HEHS area
- Sediment at the bottom of the drainage trench along the east side of the concrete slab in the HEHS area
- Surface soil from locations surrounding the HEHS area
- Subsurface soil from locations surrounding the HEHS area
- Standing pools of surface water
- Water and sediment at the bottom of the drainage structures southeast and northwest of the HEHS area

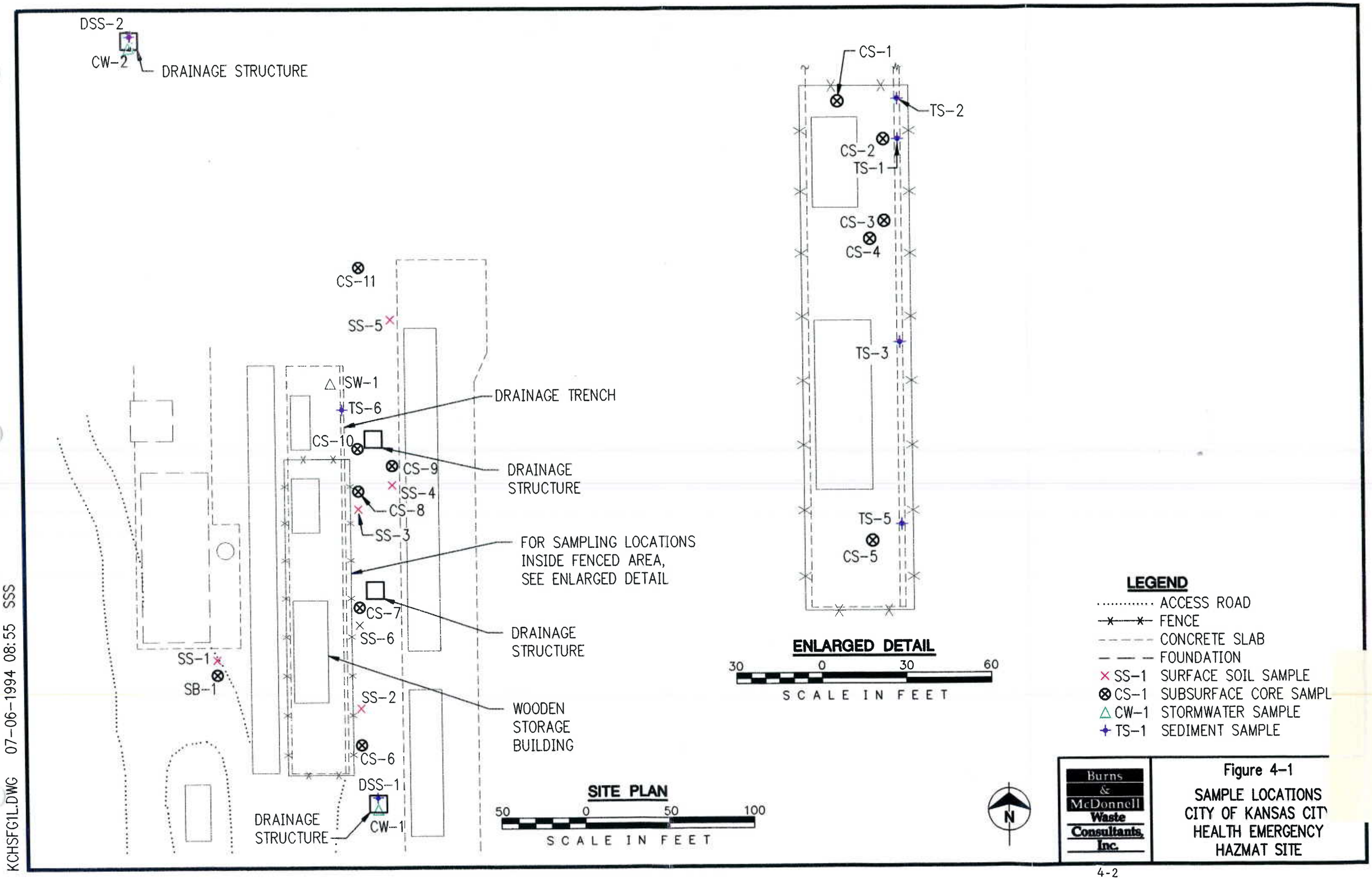

Figure 4-1

SAMPLE LOCATIONS
CITY OF KANSAS CIT
HEALTH EMERGENCY
HAZMAT SITE

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4.2 SUBSURFACE SOIL SAMPLING BENEATH THE HEHS

Grab samples were collected from the soil immediately under the concrete slab on which chemicals were temporarily stored in drums and containers within the HEHS fenced storage compound. The five sample locations are identified in Figure 4-1. Samples were collected from locations of stained and cracked concrete, potential points for hazardous substances to migrate beneath the concrete to the underlying soil.

A local contractor, Kansas City Coring and Cutting, was hired to cut the five core holes in the concrete slab to provide access to soil. The concrete was approximately 5 inches thick at each location. Samples were collected from the core hole locations using a manually-operated JMC subsurface soil probe. The probe was used to collect continuous soil cores in up to 3 foot lengths.

Each soil core was collected in a clean, clear, plastic tube removed from the sample probe device to evaluate the nature of the collected soil. In some instances, the tube was then cut open, the soil screened using a photoionization detector (PID), and portions of the soil core placed into the sample containers. Other samples were obtained by pushing the soil out of the tube directly into the sample jars. Each soil core was field screened for volatile organic compounds (VOCs) with a PID. A 2 ounce VOC sample was collected from the portion of the soil core exhibiting the highest organic vapor reading or from near the top of the soil core.

Two 4-ounce grab samples were collected from the 3-foot soil core obtained from each subsurface sampling point. One grab sample consisted of soil from approximately 0 to 18 inches bgs and one of soil from depths of approximately 18 to 36 inches. These samples were analyzed for pH, 12 metals (arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc), semivolatile organic compounds (SVOCs), chlorinated pesticides, chlorinated herbicides, and organophosphorus pesticides.

An additional 8-ounce shallow subsurface soil grab sample was collected from each location for carbamate pesticide analysis. This sample was collected from a second soil core obtained from the same depth adjacent to the initial

core at each sample location. The entire core was required for carbamate pesticide analysis.

The subsurface soil samples from beneath the concrete slab were collected on the first day in the field, and the MDNR representative requested that 8-ounce split samples be collected for MDNR use. The split samples were collected from another soil core adjacent to the two previous core locations.

4.3 SUBSURFACE SOIL SAMPLING

Off-site shallow subsurface soil samples were collected from the adjacent property downgradient of the HEHS to determine the potential nature and extent of hazardous substances. Sample locations are identified in Figure 4-1. The locations along the east side of the HEHS were chosen to determine if hazardous substances had passed through cracks in the concrete slab and migrated east through subsurface soils. One sample from sampling point CS-8 was collected directly across the fence from sampling location CS-2. The soil sample obtained from sampling location CS-2 had a noticeable odor and the presence of organic vapors was indicated when field screened with the PID. Based on the obvious potential for hazardous substances to be present at the CS-2 sampling location, it was expected that site hazardous substance mobility could be characterized by sampling nearby. Sampling at location CS-8 was conducted to a depth of 6 feet to evaluate the horizontal mobility of site-related chemicals.

The subsurface soil samples were collected using the JMC subsurface soil probe. As with other samples, the probe was used to collect continuous soil cores in up to 3-foot lengths. Each soil core was collected in a clean, clear, plastic tube which allowed the soil to be visually examined prior to filling sample jars. In some cases the tube was then cut open, the soil screened using a PID, and portions of the soil core placed into the sample containers. Other samples were collected by pushing the soil out of the tube directly into the sample jars.

One 2-ounce VOC grab sample was collected from a soil boring core from each sampling location. The portion of the soil sample determined most likely to

be contaminated, based on PID screening, was submitted for VOC analysis. For probe samples which did not register VOCs on the PID, the sample was collected from the portion of the soil core estimated to be most likely contaminated, typically the top 6 to 12 inches. One VOC sample (CS-8) was collected from the bottom 30 to 36 inches of the soil core.

Two 4-ounce grab samples were collected from each 3-foot soil core. The upper grab sample consisted of soil from an approximate depth of 0 to 18 inches and the bottom soil sample represented soil from depths of approximately 18 to 36 inches. These samples were analyzed for pH, 12 metals (arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc), SVOCs, chlorinated pesticides, chlorinated herbicides, and organophosphorus pesticides.

A 8-ounce shallow subsurface soil grab sample was collected from each location for carbamate pesticide analysis. This sample was collected from an additional soil core obtained from the same depth adjacent to the initial core at each sample location. The entire core was required for carbamate pesticide analysis.

4.4 SEDIMENT SAMPLING

Sediment samples were collected from the drainage trench along the eastern edge of the HEHS compound and the bottom of the drainage structures southeast and northwest of the HEHS. Since any accidental HEHS release would be expected to drain to the drainage trench, hazardous substances detected in the trench sediment were considered potential site chemicals of concern. Five trench samples were taken to characterize the nature of the potential hazardous substances on the site. The collection of two drainage structure sediment samples was requested by MDNR. An hydraulic connection between the HEHS and these nearby drainage structures has not been evaluated. However, the sampling was completed as requested. Locations sampled are identified on Figure 4-1.

Each sediment sample was collected from the bottom of the sediment layer in the trench or drainage structure. Three to five aliquots were collected for

each sample using a decontaminated, stainless steel hand scoop and mixed in a decontaminated, stainless steel bowl to produce the composite sediment sample. These composite samples were analyzed for pH, 12 metals (arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc), SVOCs, chlorinated pesticides, chlorinated herbicides, organophosphorus pesticides, and carbamate pesticides. A 2-ounce grab sample was also obtained for VOC analysis from each sediment sampling location except TS-6. A VOC sample was not obtained from location TS-6 due to thin layer of sediment present at this location. The MDNR representative also requested 8-ounce split samples of material collected in three trench sediment locations and both drainage structures.

4.5 SURFACE SOIL SAMPLING

Surface soil samples were collected in areas potentially impacted by runoff of storm water from the HEHS compound or by unintentional spills from barrels stored on the east facility wall. Six composite surface soil samples were collected and analyzed for pH, 12 metals (arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc), SVOCs, chlorinated pesticides, chlorinated herbicides, organophosphorus pesticides, and carbamate pesticides. One sample was a upgradient sample, collected from an area which would not be impacted by operations at the HEHS.

To collect the samples, a decontaminated, stainless steel hand scoop was used to expose soil 3 to 6 inches bgs in five separate locations in a 10-foot square grid. Aliquots were collected from each sample location and mixed in a decontaminated, stainless steel bowl. The locations where samples were collected are indicated in Figure 4-1. Surface soil samples were not analyzed for VOCs due to the low potential for those compounds to persist on the surface.

4.6 WATER SAMPLING

Water samples were collected from the drainage structures southeast and northwest of the HEHS, and from a pool of storm water runoff from the HEHS. The stormwater runoff sample was collected from the trench and concrete pad north of the HEHS. These samples were collected 10 days after the soil

sampling activities were performed during an extended period of precipitation. The samples were collected using a decontaminated, plastic ladle to retrieve and pour the water into the sample bottles. Samples were collected and analyzed for flash point, VOCs, 12 metals (arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc), SVOCs, chlorinated pesticides, chlorinated herbicides, organophosphorus pesticides, and carbamate pesticides.

* * * * *

5.0 NATURE AND EXTENT OF HAZARDOUS SUBSTANCES

5.1. COMPOUNDS AND METALS DETECTED IN SAMPLES

Analytical parameters detected in samples collected at the HEHS site include chlorinated herbicides, chlorinated pesticides, SVOCs, and VOCs and inorganic metals. Section 5.1 discusses the compounds and metals detected in site soil and water. Section 5.2 discusses the location these compounds were detected at the site and background concentrations in site media.

5.1.1 Pesticides

All samples, including subsurface soil, surface soil, sediment, and surface water, collected during field activities were analyzed for chlorinated, organophosphorus, and carbamate pesticides. Organophosphorus and carbamate pesticides were not detected in any of the samples analyzed. The following four chlorinated pesticides were detected in one or more samples:

- γ-BHC (Lindane) - an insecticide; chemical name: gamma benzene hexachloride. Lindane was detected in one trench sediment sample. It was not detected at off-site sampling points.

- p,p'-DDD (DDD or Rhothane) - an insecticide; chemical name: 1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane

- p,p'-DDE (DDE) - degradation product of DDT; chemical name: dichlorodiphenyldichloroethylene

- p,p'-DDT (DDT) - an insecticide; chemical name: dichlorodiphenyltrichloroethane

DDD, DDE, and DDT were detected in on-site, off-site, and background soil and sediment samples. The presence of these compounds appears to be related to past property uses rather than operations at the HEHS. Detection of these compounds in the HEHS were less than reported for surface soil from the upgradient sampling point.

5.1.2 Herbicides

All samples collected during field activities were also analyzed for chlorinated herbicides. The following two herbicides were detected in one or more samples:

- 2,4-D (Miracle or Weedtrol) - a selective, hormone-type herbicide; chemical name: 2,4-dichlorophenoxyacetic acid. 2,4-D was only detected in drainage trench sediment from the HEHS and the drainage structure located north of the HEHS. It was not found at other locations.

- Dicamba - a herbicide; chemical name: 2-methoxy-3,6-dichlorobenzoic acid. Dicamba was only detected in the drainage sediment and subsurface soil obtained from the HEHS. This herbicide was not detected in off-site samples.

5.1.3 Semivolatile Organic Compounds

All samples collected during field activities were analyzed for SVOCs. The following 17 SVOCs were detected in one or more samples:

- Acenaphthalene
- Phenanthrene
- Anthracene
- Fluoranthene
- Pyrene
- Butylbenzylphthalate
- Benzo(a)anthracene
- Chrysene
- 2-Methylnaphthalene
- N-Nitrosodiphenylamine
- Di-n-butylphthalate
- Bis(2-Ethylhexyl)phthalate
- Pentachlorophenol
- Phenol
- 2,4-Dimethylphenol

- Naphthalene
- bis(2-Ethylhexyl)adipate

Polynuclear aromatic hydrocarbons (PAH) compounds detected at CS-2 and TS-1 appear to be residuals of a past accidental oil or petroleum fuel release in the HEHS. Investigation data indicates the extent of PAH residuals related to the oil release was limited to the small area near these sampling points. The other detected PAH compounds are commonly found in urban environments and did not appear to be related to site activities. These compounds were not detected frequently or at high levels in the soil and sediment samples. The remaining SVOCs, phenol, and phthalate compounds were detected infrequently and were not considered significant detections. Based on the low levels and frequency of detections indicated by investigation data, SVOCs do not appear to be a significant chemicals of concern at this location.

5.1.4 Volatile Organic Compounds

Samples collected from subsurface soil and sediment were analyzed for VOCs. The following 18 different VOCs were detected in one or more samples:

- Acetone
- Benzene
- n-Butylbenzene
- sec-Butylbenzene
- 1,2-Dichlorobenzene
- Ethylbenzene
- p-Isopropyltoluene
- Isopropylbenzene
- 4-Methyl-2-pentanone
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Toluene
- Trichlorofluoromethane
- Xylenes (m- and p-)
- o-Xylene

Benzene, toluene, ethylbenzene, and xylenes (BTEX) are common components of petroleum products. Other aromatic hydrocarbon compounds listed above are also common components of petroleum products. Acetone and chlorinated hydrocarbons, such as 1,2 dichlorobenzene, methylene chloride, and trichlorofluoromethane, are commonly found in solvents.

BTEX and other petroleum-related VOCs detected at TS-1 and CS-1 appeared to be residuals of a past accidental oil or fuel release within the HEHS. Low levels of toluene and benzene were detected at nearby sampling point CS-8, suggesting these volatile petroleum constituents may have migrated a small distance from the point of original release. Fuel-related VOCs were also detected at lower levels in other trench samples. Toluene and xylene were detected at trace levels in background and off-site subsurface soil samples. The source of these residuals is unknown, but the levels detected do not indicate a significant VOC source exists at the site.

Methylene chloride was the most frequently detected VOC; however, it was also reported in laboratory method blanks and the trip blank. As a result, methylene chloride is a suspected laboratory contaminant and does not appear to be related to past site activities. Acetone and trichlorofluoromethane were also detected at low levels at several sampling points. These compounds are also possible laboratory contaminants. Their distribution in samples from the investigation did not appear to indicate these compounds were site-related.

5.1.5 Metals

All samples collected during the field activities were analyzed for the following metals:

- Arsenic
- Barium
- Cadmium
- Chromium
- Copper
- Lead

- Manganese
- Mercury
- Nickel
- Selenium
- Silver
- Zinc

Metal levels in soil varied significantly across the property; therefore, a clear relationship between the HEHS and off-site soil concentrations could not be identified. Site data indicates that lead, cadmium, chromium, mercury and zinc levels were elevated in one or more sediment samples from the site drainage trench. However, off-site sampling results did not document that site activities had impacted the adjacent property soil. It was noted that soil metal levels, especially lead, were elevated in the upgradient surface soil sample. As a result, past property use, instead of the HEHS, appear to be responsible for existing off-site soil metal concentrations. It is noted that only lead was detected in off-site soil samples at levels exceeding health based standards.

5.2 SUBSURFACE SOIL

Subsurface soil samples were collected on the HEHS site from soil underlying the concrete pad where the drums of waste material were stored. Subsurface soil samples were also collected off the site, outside of the fenced HEHS area. Sample results indicated that the temporary waste storage at the HEHS has impacted portions of the soil beneath the HEHS concrete pad. Trace levels of hazardous substances were also detected at nearby off-site subsurface soil sampling locations. Locations where subsurface soil samples were collected are shown in Figure 4-1. Analytical results for subsurface soil samples are summarized in Tables 5-1 and 5-2. Laboratory analytical reports are included in Appendix B.

5.2.1 Background Subsurface Soil

The upgradient subsurface soil sample, Sample SB-1, was collected from soil 0 to 3-feet bgs at a location upgradient (west) of the HEHS site. The sample location is shown on Figure 4-1.

Table 5-1
Subsurface Soil Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		831472	831473	831473	831477	831622	831623	831624	831625	831479
Sample Number:		SB-1	CS-1	CS-1	CS-2	CS-2	CS-2 Dup	CS-2	CS-2	CS-3
Sample Delivery Group:		34859	34859	34859	34859	34898	34898	34898	34898	34859
Sample Depth From:		0.0	0.0	1.5	0.5	3.0	3.0	5.0	7.1	0.0
Sample Depth To:		3.0	1.5	3.0	2.5	5.0	5.0	7.1	9.0	2.0
Sample Date:		3/29/94	3/29/94	3/29/94	3/29/94	4/1/94	4/1/94	4/1/94	4/1/94	3/29/94
PARAMETER	UNITS									
pH		8.53	7.19	7.05	7.71	7.94	7.67	7.83	7.8	8.21
Metals										
Arsenic	mg/kg	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Barium	mg/kg	162 J*	199 J	257 J*	158 J*	268 FJ*	327 FJ*	166 FJ*	178 FJ*	195 J*
Cadmium	mg/kg	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8
Chromium	mg/kg	12.5	13.4	12.4	14.7	14.9	11	14.5	15.4	12.5
Copper	mg/kg	28.1 J*	22.8 J*	21.1 J*	23.3 J*	18.9 F	18.7 F	16.9 F	17.8 F	28.9 J*
Lead	mg/kg	34 J	13 J*	12 J*	14 J*	13	13	15	14	53 J*
Manganese	mg/kg	684 J*	874 J*	701 J*	308 J*	894 FJ*	1250.0 FJ*	501 FJ*	416 FJ*	564 J*
Mercury	mg/kg	0.12 J*	0.15 J*	0.07 J*	0.09 J*	0.21 FJ*	0.2 FJ*	0.34 FJ*	0.33 FJ*	0.13 J*
Nickel	mg/kg	24 F	25.7 J*	24.4 F	20.7 F	22.6	21.8	21.2	20.2	21.5 F
Selenium	mg/kg	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Silver	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5	0.3 U
Zinc	mg/kg	121	58.5	57.8	70.2	54.4 F	56.3 F	49 F	50.0 F	150
Chlorinated Herbicides										
2,4-D	ug/kg	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba	ug/kg	27 U	27 U	27 U	400 E	27 U	27 U	27 U	27 U	27 U
Chlorinated Pesticides										
p,p'-DDD	ug/kg	13	3.67 U	3.67 U	3.67 U	3.67 U	3.67 U	3.67 U	3.67 U	3.67 U
p,p'-DDE	ug/kg	21	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U
p,p'-DDT	ug/kg	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Organophosphorus Pesticides						No Detections				
Carbamate Pesticides						No Detections				
Semivolatile Organic Compounds										
Phenol	ug/kg	662.4 U	329.9 U	330.2 U	35.9 J	1869.1 U	1865.6 U	1996 U	1976.2 U	330 U
2,4-Dimethylphenol	ug/kg	662.4 U	329.9 U	330.2 U	324.4 U	1869.1 U	584.4 J	1996 U	1976.2 U	330 U
Naphthalene	ug/kg	662.4 U	329.9 U	330.2 U	125.4 J	1869.1 U	226.5 J	1996 U	1976.2 U	330 U
2-Methylnaphthalene	ug/kg	662.4 U	329.9 U	330.2 U	290.5 J	1869.1 U	367.7 J	1996 U	288.5 J	330 U
Di-n-Butylphthalate	ug/kg	662.4 U	329.9 U	330.2 U	324.4 U	416 J	1865.6 U	1996 U	1976.2 U	330 U
Fluoranthene	ug/kg	662.4 U	329.9 U	330.2 U	324.4 U	212.6 J	1865.6 U	1996 U	1976.2 U	330 U
bis-(2-Ethylhexyl)adipate	ug/kg	662.4 U	329.9 U	330.2 U	324.4 U	1869.1 U	1072 J	1996 U	1976.2 U	330 U

Table 5-1 (Continued)
Subsurface Soil Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		831480	831481	831482	831483	831484	831576	831577	831578	831579	831580
Sample Number:		CS-3	CS-4	CS-4	CS-5	CS-5	CS-6	CS-6	CS-7	CS-7	CS-8
Sample Delivery Group:		34859	34859	34859	34859	34859	34886	34886	34886	34886	34886
Sample Depth From:		2.0	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0
Sample Depth To:		3.0	1.5	3.0	1.5	3.0	1.5	3.0	1.5	3.0	1.5
Sample Date:		3/29/94	3/29/94	3/29/94	3/29/94	3/29/94	3/31/94	3/31/94	3/31/94	3/31/94	3/31/94
PARAMETER	UNITS										
pH		8.28	8.26	8.37	8.18	8.2	8.56	7.99	8.47	8.01	7.79
Metals											
Arsenic	mg/kg	4 U	4 U	11	4 U	4 U	12	4 U	10	4 U	4 U
Barium	mg/kg	228 J*	227 J*	290 J*	196 J*	227 J*	25.3 J*	184 J*	23.9 J*	154 J*	32.7 J*
Cadmium	mg/kg	0.2 U	0.7	0.2 U	0.2 U	0.2 U	5.4	0.2 U	2.5	6.8	2.1
Chromium	mg/kg	14.8	15.7	17.4	11.5	12.4	4.5	11.7	6.6	13.4	4.9
Copper	mg/kg	25.3 J*	26.9 J*	24.3 J*	23.1 J*	42.1 J*	29.9	16.8	35.3	28.7	63.1
Lead	mg/kg	17 J*	45 J*	3 UJ*	34 J*	41 J*	25	16	20	26	25
Manganese	mg/kg	1240 J*	475 J*	339 J*	445 J*	592 J*	167 J*	131 J*	80.7 J*	534 J*	120 J*
Mercury	mg/kg	0.11 J*	0.12 J*	0.08 J*	0.1 J*	0.12 J*	0.05 J*	0.11 J*	0.1 J*	0.11 J*	0.09 J*
Nickel	mg/kg	21.2 F	22.3 F	20.6 F	20.3 F	24.9 F	15.4 F	15.9 F	16.7 F	27.2 F	22.5 F
Selenium	mg/kg	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Silver	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Zinc	mg/kg	65.8	117	62.5	98.2	105	942	53.7	422	1090	232
Chlorinated Herbicides											
2,4-D	ug/kg	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba	ug/kg	27 U	27 U	27 U	27 U	27 U	27 U	27 U	27 U	27 U	27 U
Chlorinated Pesticides											
p,p'-DDD	ug/kg	3.67 U	3.67 U	3.67 U	3.67 U	115	296	3.67 U	3.67 U	3.67 U	153
p,p'-DDE	ug/kg	1.33 U	1.33 U	1.33 U	1.33 U	125	569	1.33 U	1.33 U	1.33 U	191
p,p'-DDT	ug/kg	4 U	4 U	4 U	4 U	407	770	4 U	4 U	4 U	40 U
Organophosphorus Pesticides						No Detections					
Carbamate Pesticides						No Detections					
Semivolatile Organic Compounds											
Phenanthrene	ug/kg	330.5 U	328.5 U	332.5 U	13145 U	664 U	1902.9 U	327.8 U	797.5	1818.1 U	3623.1 U
Pentachlorophenol	ug/kg	330.5 U	191.2	332.5 U	13145 U	664 U	1902.9 U	327.8 U	1325.3 U	1818.1 U	3623.1 U

Table 5-1 (Continued)
Subsurface Soil Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		831581	831613	831614	831615	831616	831617	831618	831619	831620
Sample Number:		CS-8	CS-8	CS-8	CS-9	CS-9	CS-10	CS-10	CS-11	CS-11
Sample Delivery Group:		34886	34898	34898	34898	34898	34898	34898	34898	34898
Sample Depth From:		1.5	3.0	4.5	0.0	1.5	0.0	1.5	0.0	1.5
Sample Depth To:		3.0	4.5	6.0	1.5	3.0	1.5	3.0	1.5	3.0
Sample Date:		3/31/94	4/1/94	4/1/94	4/1/94	4/1/94	4/1/94	4/1/94	4/1/94	4/1/94
PARAMETER	UNITS									
pH		7.77	8.12	7.4	7.81	7.5	7.76	7.91	7.85	7.98
Metals										
Arsenic	mg/kg	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Barium	mg/kg	180 J*	187 FJ*	158 FJ*	233 FJ*	230 FJ*	40.5 FJ*	210 FJ*	138 FJ*	236 FJ*
Cadmium	mg/kg	0.2	0.2 U	0.2 U	0.3 U	0.6	1.5	0.2 U	0.2 U	0.2 U
Chromium	mg/kg	12.1	19.2	12	11.2	21.1	6.9	14.1	9.9	13.8
Copper	mg/kg	19	28 F	15.2 F	13.2 F	22.6 F	43.1 F	23.4 F	34.3 F	15.6 F
Lead	mg/kg	16	18	9	25	30	44	14.1	35	40
Manganese	mg/kg	376 J*	867 FJ*	657 FJ*	826 FJ*	645 FJ*	244 FJ*	446 FJ*	296 FJ*	616 FJ*
Mercury	mg/kg	0.11 J*	0.21 FJ*	0.12 FJ*	0.14 FJ*	0.2 FJ*	0.17 FJ*	0.08 FJ*	0.44 FJ*	0.22 FJ*
Nickel	mg/kg	18 F	49.5	21.4	20.5	28.3	20	21.2	25.5	20.2
Selenium	mg/kg	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Silver	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3	0.3 U	0.3 U	0.5	0.3 U
Zinc	mg/kg	62.4	91.3 F	44.3 F	51.3 F	155 F	441 F	66 F	65.8 F	78.9 F
Chlorinated Herbicides										
2,4-D	ug/kg	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba	ug/kg	27 U	61	27 U	27 U	27 U	27 U	27 U	27 U	27 U
Chlorinated Pesticides										
p,p'-DDD	ug/kg	3.67 U	3.67 U	3.67 U	3.67 U	3.67 U	330	3.67 U	16.2	3.67 U
p,p'-DDE	ug/kg	1.33 U	1.33 U	1.33 U	5.5	10.6	610	1.33 U	15.4	1.33 U
p,p'-DDT	ug/kg	4 U	4 U	4 U	4 U	4 U	260	4 U	54	4 U
Organophosphorus Pesticides						No Detections				
Carbamate Pesticides						No Detections				
Semivolatile Organic Compounds						No Detections				

Notes:

J - Qualified as estimated by the laboratory; concentration was below quantitation limit.
J* - Qualified as estimated from QC evaluation.
U - Compound was analyzed by the laboratory, but not detected.
U* - Qualified as undetected from QC evaluation.
F - Detected in the associated equipment rinsate blank.
E - Estimated quantity sample exceeded detection range of the analytical equipment

Table 5-2
Subsurface Soil VOC Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		831472	831473	831475	831475 DL	831476	831476DL	831625	831625DL	831479	831481	831483
Sample Number:		SB-1	CS-1	CS-2	CS-2	CS-2	CS-2	CS-2	CS-2	CS-3	CS-4	CS-5
Sample Delivery Group:		34859	34859	34859	34859	34859	34859	34898	34898	34859	34859	34859
Sample Depth From:		0.0	0.0	0.0	0.0	2.5	2.5	7.1	7.1	0.0	0.0	0.0
Sample Depth To:		3.0	1.5	0.5	0.5	3.0	3.0	9.0	9.0	2.0	1.5	1.5
Sample Date:		3/29/94	3/29/94	3/29/94	3/29/94	3/29/94	3/29/94	4/1/94	4/1/94	3/29/94	3/29/94	3/29/94
PARAMETER	UNITS											
Volatile Organic Compounds												
Acetone	ug/kg	260 J*	31	5400	1000 U	3400	100 U	42 J	2600	20 U	150	33
Benzene	ug/kg	1.3 UJ*	1.3 U	10 U	500 U	5.6 J	50 U	5 U	260 U	10 U	1.3 U	1.3 UJ*
n-Butylbenzene	ug/kg	1.3 UJ*	1.3 U	100	500 U	17	50 U	5 U	260 U	10 U	1.3 U	1.3 UJ*
sec-Butylbenzene	ug/kg	1.3 UJ*	1.3 U	10 U	500 U	3.3 J	50 U	5 U	260 U	10 U	1.3 U	1.3 UJ*
1,2-Dichlorobenzene	ug/kg	1.3 UJ*	1.3 U	10 U	500 U	1.3 U	50 U	5 U	260 U	10 U	1.3 U	1.3 UJ*
Ethylbenzene	ug/kg	1.3 UJ*	1.3 U	16000	9900	3900	3100	4400	2000	10 U	1.3 U	1.3 UJ*
p-Isopropyltoluene	ug/kg	1.3 UJ*	1.3 U	34 J	500 U	5.7 J	50 U	5 U	260 U	10 U	1.3 U	1.3 UJ*
Isopropylbenzene	ug/kg	1.3 UJ*	1.3 U	320	500 U	89	89 J	130	260 U	10 U	1.3 U	1.3 UJ*
4-Methyl-2-pentanone	ug/kg	2.6 UJ*	2.6 U	470	1000 U	220	100 U	50 J	500 U	20 U	2.6 U	2.6 UJ*
Methylene chloride	ug/kg	25 J*	1.3 U	10 U	500 U	1.3 U	50 U	5 U	570 J	21 BJU*	8.8 BU	26 BU*
Naphthalene	ug/kg	1.3 UJ*	1.3 U	300	500 U	100	140 J	24 J	260 U	10 U	1.3 U	1.3 UJ*
n-Propylbenzene	ug/kg	1.3 UJ*	1.3 U	140	500 U	41	50 U	29	260 U	10 U	1.3 U	1.3 UJ*
1,2,4-Trimethylbenzene	ug/kg	1.3 UJ*	1.3 U	810	620 J	170	180 J	160	260 U	24 J	1.3 U	1.3 UJ*
1,3,5-Trimethylbenzene	ug/kg	1.3 UJ*	1.3 U	10 U	500 U	1.3 U	50 U	5 U	260 U	20 J	1.3 U	1.3 UJ*
Toluene	ug/kg	5 J*	1.4 J	1000	500 U	100	54 J	460	260 U	10 U	1.7 J	3.6 J*
Trichlorofluoromethane	ug/kg	1.3 UJ*	1.3 U	3200	660 J	34	50 U	480	13000	10 U	1.3 U	1.3 UJ*
Xylene (m-,p-)	ug/kg	7.2 J*	1.3 U	67000	53000	13000	16000	36000	31000	14 J	2.3 J	3.5 J*
o-Xylene	ug/kg	1.5 J	1.3 U	30000	20000	6700	6100	15000	11000	10 U	1.3 U	1.3 U

Table 5-2 (Continued)
Subsurface Soil VOC Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

	Lab Identification Number:	831576	831578	831578 RE	831581	831615	831617	831619
	Sample Number:	CS-6	CS-7	CS-7	CS-8	CS-9	CS-10	CS-11
	Sample Delivery Group:	34886	34886	34886	34886	34898	34898	34898
	Sample Depth From:	0.0	0.0	0.0	1.5	0.0	0.0	0.0
	Sample Depth To:	1.5	1.5	1.5	3.0	1.5	1.5	1.5
	Sample Date:	3/31/94	3/31/94	3/31/94	3/31/94	4/1/91	4/1/91	4/1/91
PARAMETER	UNITS							
Volatile Organic Compounds								
Acetone	ug/kg	2.6 UJ*	2.6 UJ*	2.6 UJ*	19	2.6 U	2.6 U	2.6 UJ*
Benzene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
n-Butylbenzene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
sec-Butylbenzene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
1,2-Dichlorobenzene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
Ethylbenzene	ug/kg	2.8 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
p-Isopropyltoluene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
Isopropylbenzene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
4-Methyl-2-pentanone	ug/kg	2.6 UJ*	2.6 UJ*	2.6 UJ*	2.6 U	2.6 U	2.6 U	2.6 UJ*
Methylene chloride	ug/kg	98 BTJ*	83 TJ*	200 BJ*	20 T	13 BU*	28	69 J*
Naphthalene	ug/kg	1.3 UJ*	48 J*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
n-Propylbenzene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
1,2,4-Trimethylbenzene	ug/kg	3.4 J	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
1,3,5-Trimethylbenzene	ug/kg	1.3 UJ*	1.3 UJ*	1.3 UJ*	1.3 U	1.3 U	1.3 U	1.3 UJ*
Toluene	ug/kg	7 J*	4.8 J	11 J*	2.1 J	1.3 U	2.3 J	1.6 J
Trichlorofluoromethane	ug/kg	3.5 J	4.7 J	20 J*	1.3 U	1.3 U	1.3 U	4.2 J
Xylene (m-,p-)	ug/kg	8.2 J*	1.3 UJ*	14 J*	1.3 U	1.3 U	4.3 J	3.7 J
o-Xylene	ug/kg	4.4 J	1.3 UJ*	3.8 J	1.5 J	1.3 U	1.3 U	1.3 UJ*

Notes:

J - Qualified as estimated by the laboratory; concentration was below quantitation limit.
J* - Qualified as estimated from QC evaluation.
T - Detected in associated trip blank.
U - Compound was analyzed by the laboratory, but not detected.
U* - Qualified as undetected from QC evaluation.
B - Detected in the associated laboratory method blank.

The upgradient sample analytical results are summarized in Table 5-1 and Table 5-2 and compared to literature background levels in Table 5-3. Chlorinated pesticides were detected at low levels in the sample; 13 micrograms per kilogram (μg/kg) of DDD (detection limit of 3.67 μg/kg) and 21 μg/kg of DDE (detection limit of 1.33 μg/kg). The DDD and DDE levels in this upgradient subsurface soil sample were less than detected in the surface soil sample, SS-1, obtained nearby. As shown on Figure 5-1 surface soil at the site generally contains DDD and DDE at levels exceeding those detected in the upgradient subsurface soil background sample. The presence of DDD and DDE in soils at this upgradient sampling location is most likely residual from past municipal farm operations.

Organophosphorus pesticides, carbamate pesticides, chlorinated herbicides, and SVOCs were not detected in the background subsurface soil sample. Inorganic metals parameters analyzed in this sample were not detected (arsenic, cadmium, selenium, and silver) or detected at levels below health-based regulatory guidelines, MDOH Any-Use levels, or EPA Region III risk-based concentrations. These levels, summarized on Table 5-3, provide a basis for screening analytical results for potential exposure concerns.

VOCs detected in the background subsurface sample included 260 μg/kg of acetone, 25 μg/kg of methylene chloride, an estimated 5 μg/kg of toluene, 7.2 μg/kg of xylene (m-,p-), and an estimated 1.5 μg/kg of o-xylene. Methylene chloride, acetone, and toluene are common laboratory contaminants. Since methylene chloride was detected in laboratory blanks, the presence of this compound assumed to represent laboratory contamination.

The upgradient location of the background sample indicates that these compounds have not migrated from the HEHS. The low VOC levels reported could be due to laboratory contamination, urban sources, or past site use, such as the municipal farm or local government offices.

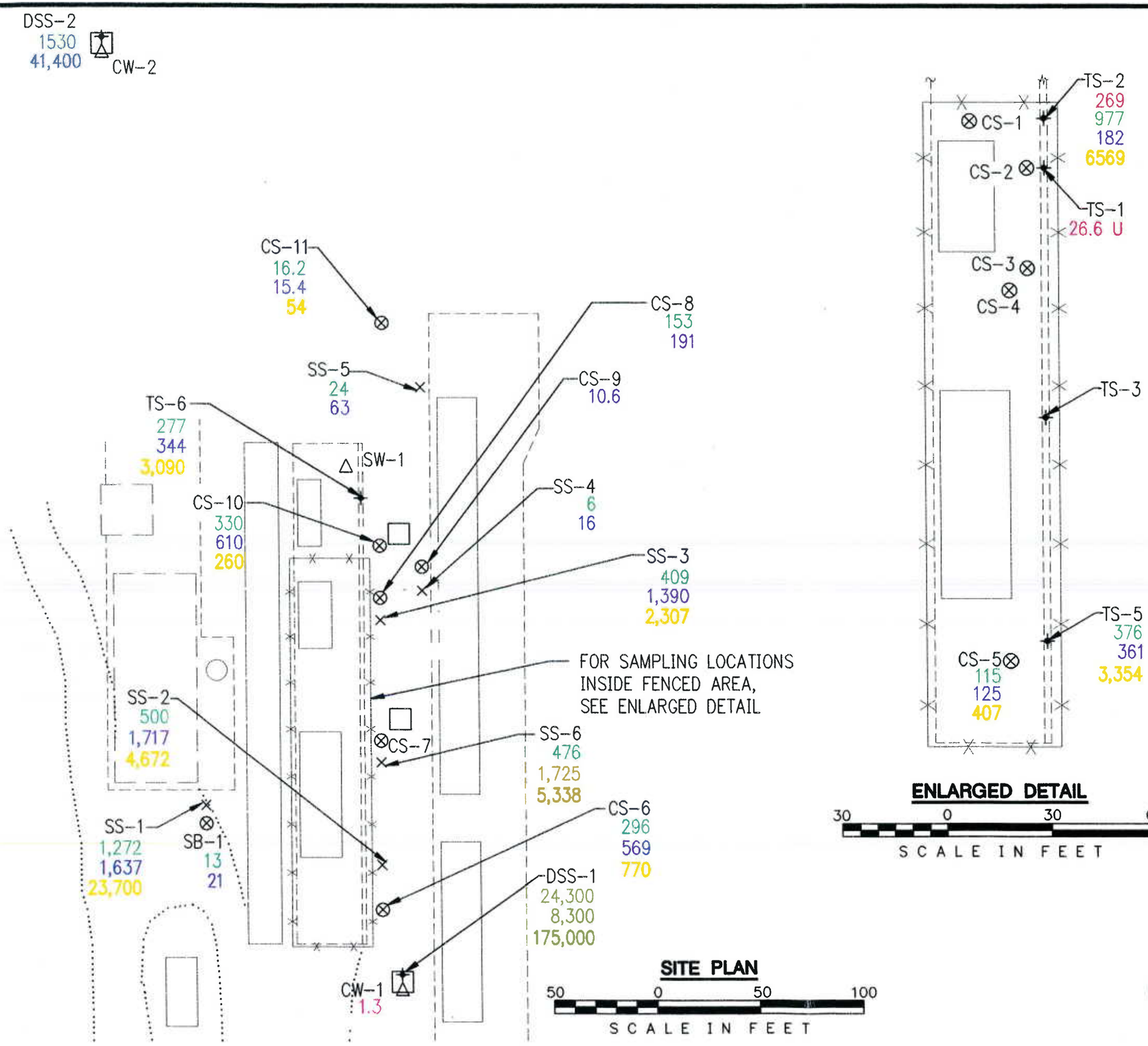
5.2.2 Subsurface Soil Beneath the HEHS

Two areas of subsurface soil beneath the HEHS concrete pad were identified as potentially impacted by the temporary storage of waste materials at the HEHS.

Table 5-3
Site, State, and National Background Metals Levels in Soils and Risk-Based Soil Use Levels Health Emergency Hazmat Site City of Kansas City, Missouri

Parameter	Upgradient Subsurface Soil Sample SB-1 (mg/kg)	Upgradient Surface Soil Sample SS-1 (mg/kg)	State Background Levels (1) (mg/kg)	National Background Levels (2) (mg/kg)	MDOH Any Use Levels (3) (mg/kg)	EPA Region III Risk-Based Concentrations (4)	
						Commercial/Industrial Soil (mg/kg)	Residential Soil (mg/kg)
Arsenic	ND (4)	ND (4)	8.7	1.0 to 40	11	310	23
Barium	162	224	580	100 to 3,500	3,900	72,000	5,500
Cadmium	ND (0.2)	1.6	< 1	0.01 to 7.0	28	510	39
Chromium	12.5	11.6	54	5 to 3,000	280	5,100	390
Copper	28.1	34.8	13	2.0 to 100	-	38,000	2,900
Lead	34	415	20	2.0 to 200	240	-	-
Manganese	684	569	740	100 to 4,000	5,600	5,100	390
Mercury	0.12	0.11	0.04	0.01 to 0.3	17	310	23
Nickel	24	22	14	5.0 to 1,000	1,100	20,000	1,600
Selenium	ND (3.5)	ND (3.5)	0.28	0.1 to 2.0	280	5,100	390
Silver	ND (0.3)	ND (0.3)	-	0.1 to 5.0	280	5,100	390
Zinc	121	388	49	10 to 300	5,600	310,000	23,000

1 - USGS Professional Paper 954-H,A; Geochemical Survey of Missouri U.S. Government Printing Office, 1984.
2 - USEPA. A Compendium of Superfund Field Operations Method, Dec. 1987.
3 - Missouri Department of Health, Proposed Any-Use Soil Levels for Residential Settings
4 - USEPA Region III. Risk-Based Concentration Table, Fourth Quarter, 1993.
ND - Not detected at the detection level in parentheses



Burns & McDonnell Waste Consultants, Inc.

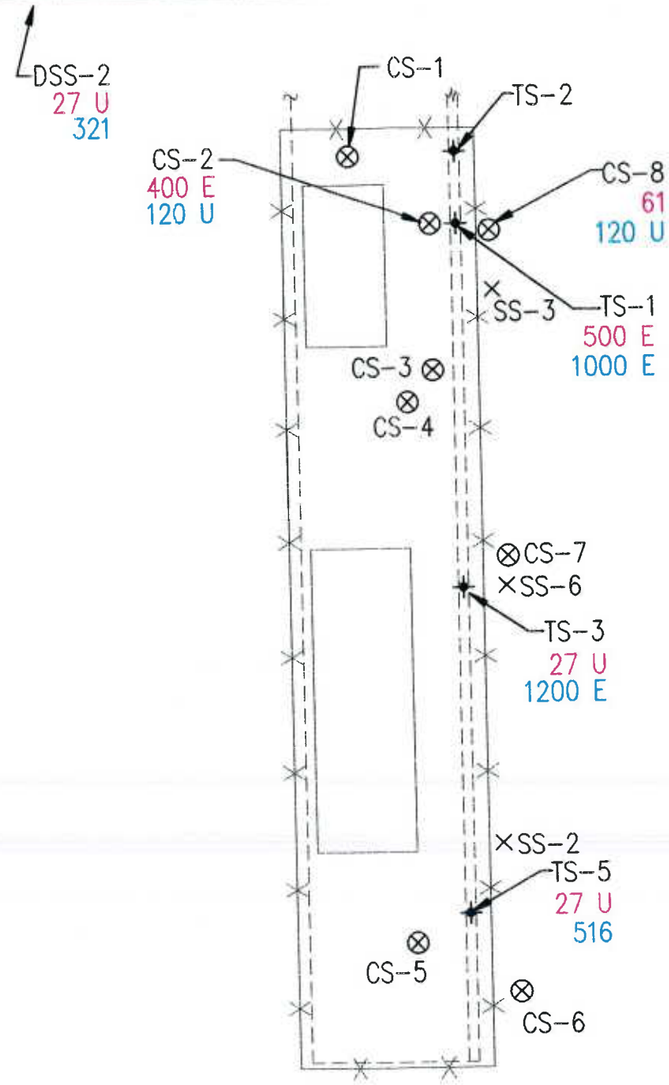
Figure 5-1
CHLORINATED PESTICIDE DETECTIONS
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

Area of CS-2

The primary area of detected hazardous substance is located beneath the northern portion of the fenced HEHS area at sample location CS-2. Subsurface soil samples were collected to a depth of 9 feet from CS-2. Pesticide or herbicide odors were noted in samples obtained from the entire 9-foot depth at this location. The sample collected from 0.5 feet to 2.5 feet bgs contained 400 μg/kg of Dicamba, a chlorinated herbicide. This result was qualified as estimated by the laboratory, indicating the actual concentration could not be determined because results exceeded the calibration range of the instrument. Dicamba was not detected in deeper soil samples obtained from this location. Chlorinated herbicide results at each sample location are shown in Figure 5-2. Dicamba was also detected at lower levels at a nearby, off-site sampling point, CS-8. This data suggests a limited area of soil contamination is present around sampling location CS-2. Dicamba was not detected at other site subsurface soil sampling locations, indicating accidental releases from the site have impacted a limited area.

SVOCs detected in CS-2 include 2,4-dimethylphenol, di-n-butylphthalate, bis-(2-ethylhexyl)adipate, fluoranthene, 2-methylnaphthalene, naphthalene, and phenol. Each detection was reported as an estimated concentration below the method detection limit. The highest concentration was 584.4 μg/kg of 2,4-dimethylphenol. These compounds were not detected at any other subsurface soil sampling location. At CS-2, detected concentrations decreased with depth. Only 2-methylnapthalene (288.5 μg/kg) was detected at the 9-foot depth. SVOC contamination in the area is indicated to be localized.

VOCs were also detected in samples from sampling location CS-2. Soil collected from 0.0 to 0.5 feet bgs contained a range of VOC compounds. These are summarized in Table 5-2. The compounds detected at CS-2 are typically found in petroleum products, except acetone, a solvent, and trichlorofluoromethane, an aerosol propellent and refrigerant. The compounds detected at the highest concentrations from 0.0 to 0.5 feet bgs at CS-2 were toluene at 1000 μg/kg, trichlorofluoromethane at 3,200 μg/kg, acetone at 5,400 μg/kg, ethylbenzene at 16,000 μg/kg, o-xylene at 30,000 μg/kg, and m- and p-xylene at 67,000 μg/kg. The sample at CS-2 collected from 2.5 to 3.0 feet



ENLARGED DETAIL

30 0 30 60

SCALE IN FEET

LEGEND

- ACCESS ROAD
- FENCE
- CONCRETE SLAB
- FOUNDATION
- × SS-1 SURFACE SOIL SAMPLE
- ⊗ CS-1 SUBSURFACE CORE SAMPLE
- △ CW-1 STORMWATER SAMPLE
- ✦ TS-1 SEDIMENT SAMPLE

ANALYTICAL RESULTS:

400	DICAMBA (ug/kg)
1000	2,4-D (ug/kg)
E	EXCEEDED CALIBRATION LIMITS
U	BELOW QUANTITATION LIMIT

N

Burns & McDonnell Waste Consultants, Inc.

Figure 5-2
CHLORINATED HERBICIDE DETECTIONS
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

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bgs contained consistently lower levels of VOCs. VOCs detected at the highest concentrations at the 2.5- to 3.0-foot depth were toluene at 100 μg/kg, naphthalene at 100 μg/kg, 1,2,4-trimethylbenzene at 170 μg/kg, 4-methyl-2-pentanone at 100 μg/kg, acetone at 3,400 μg/kg, ethylbenzene at 3,900 μg/kg, o-xylene at 13,000 μg/kg, and m- and p-xylene at 6,700 μg/kg. VOCs were not detected at levels significantly above the detection limit at any other subsurface soil sample location under the HEHS concrete pad.

At nearby sampling point CS-8, toluene and xylenes were detected at low levels (1.6 and 3.7 μg/kg, respectively). This detection suggest minimal horizontal movement of the VOCs has occurred through the soil profile.

As a general indicator of the location of VOCs in samples from the site, Figure 5-3 details BTEX concentrations detected during the investigation. Methylene chloride was the most frequently detected chemical in site samples, but because it was present in laboratory method blanks, it is likely a laboratory contaminant and may not be present in site area soil. As shown in Figure 5-3, xylene and toluene levels were widespread on the property and did not appear to be related to a specific source. The occurrence of acetone and trichlorofluoromethane was also widespread and may not be site-related. These compounds could also be laboratory contaminants. Less frequently detected petroleum hydrocarbons (benzene, n-butylbenzene, sec-butylbenzene, isopropylbenzene, p-isoprophyltoluene, 4-methyl-2-pentanone, and n-propylbenzene) were detected in subsurface soil only in the area of visible oil contamination, at CS-2. Figure 5-3 presents detected BTEX levels for sample locations where VOCs were detected. The levels of BTEX compounds detected tend to correspond to or be significantly higher than the levels of other VOCs detected at the site.

Organophosphorus pesticides and carbamate pesticides were not detected in any subsurface soil samples.

Metal levels detected in subsurface soil samples obtained beneath the concrete slab varied considerably; however, subsurface metal levels usually appeared to be within natural ranges. The occurrence of metals detected in subsurface

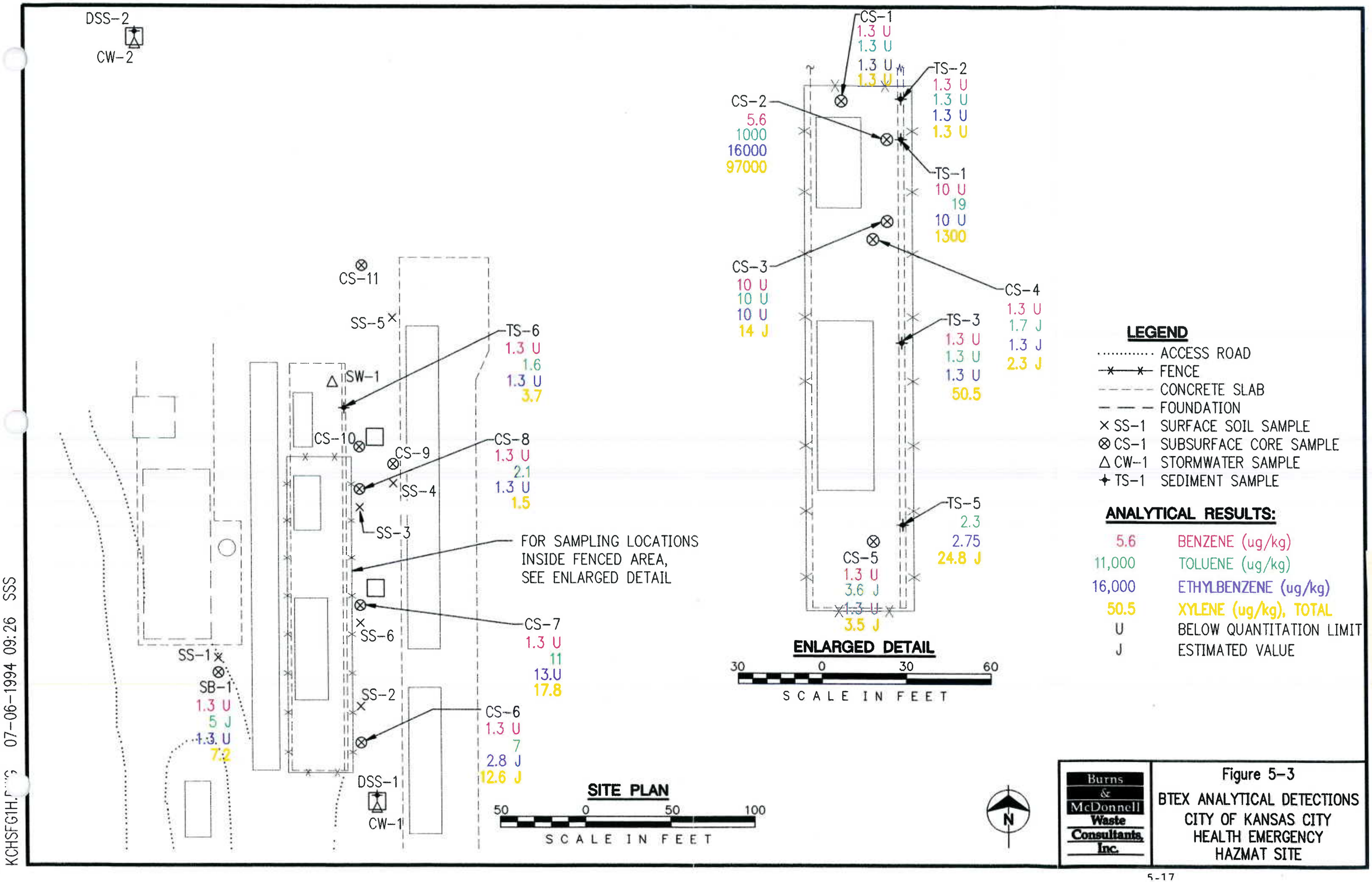

Figure 5-3
BTEX ANALYTICAL DETECTIONS
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

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soil at the site is summarized below and in Table 5-1 and on Figure 5-4:

- Arsenic levels were consistently below the level of detection (4 milligrams per kilogram (mg/kg)) except at on-site sampling points CS-4 (11 mg/kg) and CS-5 (12 mg/kg) and off-site sampling point CS-7 (10 mg/kg). These detections are near the average Missouri soil arsenic concentration of 9 mg/kg, reported by the United States Geologic Service (USGS) (see Table 5-3).

- Barium levels detected during the investigation were consistently below the USGS average Missouri soil concentration (580 mg/kg). Subsurface soil levels ranged from 23.5 to 326.4 mg/kg.

- Cadmium levels in subsurface soil were below 1 mg/kg at all on-site sampling points, consistent with USGS average Missouri soil data. Levels above 1 mg/kg were detected at off-site sampling points CS-7 (2.5 mg/kg), CS-8 (6.8 mg/kg), and CS-10 (1.5 mg/kg). The higher cadmium levels in shallow soil are similar to levels detected in the HEHS drainage trench sediment near these sampling points.

- Subsurface soil chromium levels were consistently less than the USGS average Missouri soil chromium level, 54 mg/kg.

- On-site subsurface soil copper levels (16.2 to 28.9 mg/kg) were similar to the copper level detected in the upgradient subsurface soil sample (28.1 mg/kg). The highest off-site copper level (62.5 mg/kg) was reported at sampling point CS-8.

- The highest lead subsurface soil levels were reported at sampling points CS-3 (53 mg/kg), CS-4 and CS-10 (44 mg/kg), CS-5 (81 mg/kg), and CS-11 (40 mg/kg). These levels are comparable with levels detected at upgradient sampling location SB-1 (34 mg/kg). Elevated lead levels in subsurface soil were not detected, despite their occurrence in surface soil.

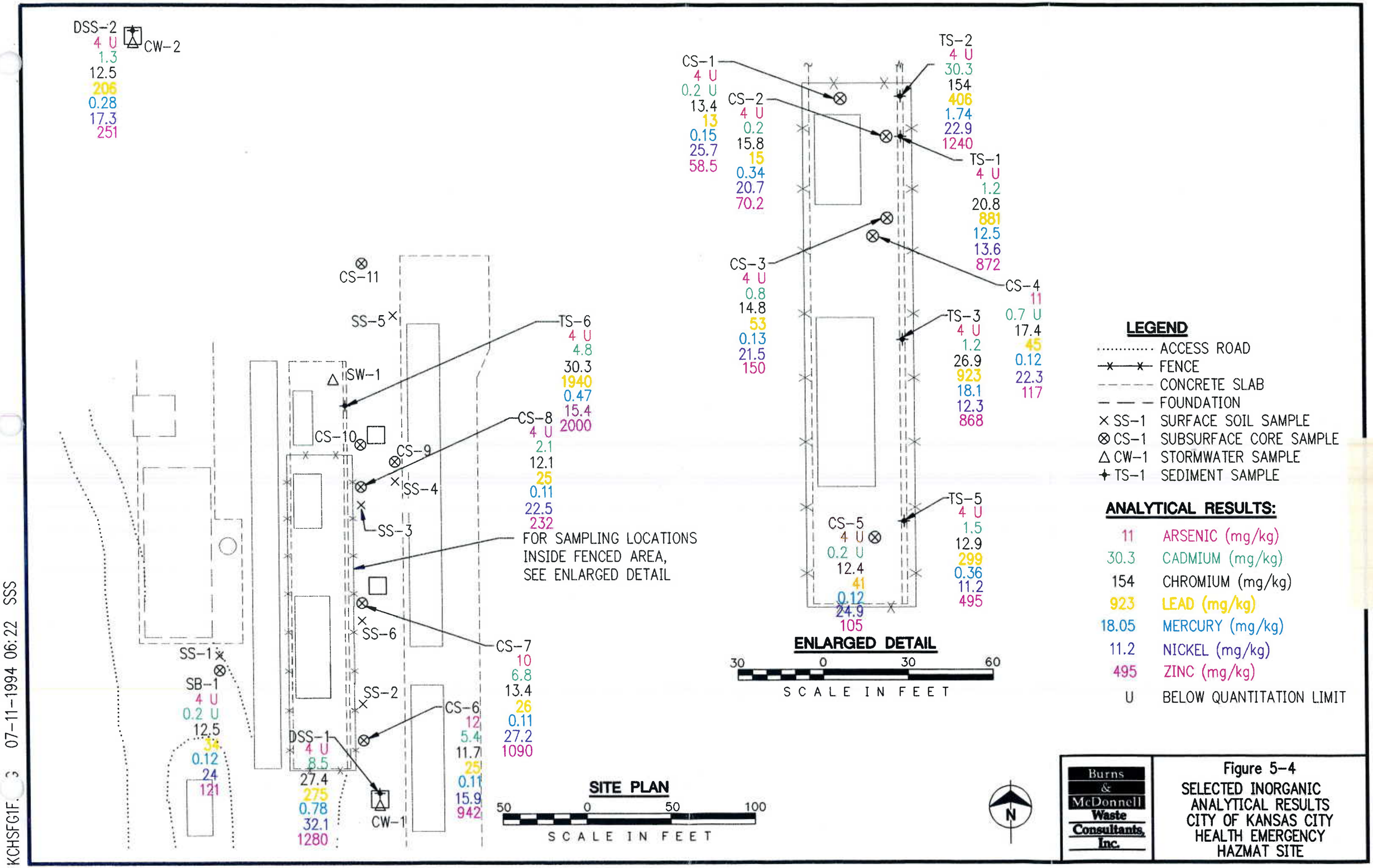

Figure 5-4
SELECTED INORGANIC ANALYTICAL RESULTS
CITY OF KANSAS CITY
HEALTH EMERGENCY
HAZMAT SITE

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- Manganese levels varied dramatically on and off the site, ranging from 80.4 to 1,247 mg/kg. Manganese levels were highest at sampling points CS-2 (1,247 mg/kg), and CS-3 (1,244 mg/kg). The upgradient sample contained 683.5 mg/kg of manganese. Based on the wide variation in manganese levels detected, it is uncertain whether the levels detected are site related.

- Silver and mercury levels detected in subsurface soil were consistently below 0.5 mg/kg. Selenium was not detected in subsurface soil samples obtained from the property.

- Nickel levels in subsurface soil ranged from 15.4 to 49.5 mg/kg. The background nickel level in subsurface soil was 24 mg/kg, which corresponded with on-site detected levels.

- Zinc levels in subsurface soil were elevated at sampling points CS-6 (940.4 mg/kg), CS-7 (1,086 mg/kg), and CS-10 (439.1 mg/kg). Detected subsurface soil zinc levels in on-site samples were lower. The wide variation in zinc levels reported by investigation data may not be site related.

Area of CS-5

Subsurface soil beneath the HEHS concrete pad collected at CS-5 contained low levels of chlorinated pesticides, 115 μg/kg of DDD, 125 μg/kg of DDE, and 407 μg/kg of DDT. Levels of this magnitude are seen in other off-site subsurface soil samples and may be related to past property use. Shallow subsurface soil at CS-5 was not similar to soil encountered at the north end of the HEHS and may be fill brought from other property locations.

5.2.3 Off-Site Subsurface Soil

Subsurface soil samples CS-6, CS-8, CS-9, and CS-11 contained low levels of chlorinated pesticides DDD, DDE, DDT. The detected levels ranged from 5.5 to 770 μg/kg. The pesticides were detected in samples collected at each location from 0 to 1.5 feet bgs. These pesticides were not detected in samples from 1.5 to 3 feet bgs, except at CS-9, where very low levels were detected to the

full 3-foot depth. This data indicates that the pesticides are present primarily in the surface soil, as indicated in Figure 5-1. Based on a greater occurrence and magnitude in upgradient and off-site soil samples, the chlorinated pesticide residuals in the surface soil are most likely a result of past site use, instead of releases from the HEHS.

Chlorinated herbicides, organophosphorus pesticides, and carbamate pesticides were not detected in off-site subsurface soil samples.

VOCs were detected in low levels in off-site Samples CS-6, CS-7, CS-8, CS-10, and CS-11. Sample results are summarized in Table 5-2. The VOC detected at the highest level in each sample was methylene chloride, a common analytical laboratory contaminant. Based on the detection of methylene chloride in laboratory blanks the actual presence of this compound at the site is questionable. Methylene chloride is believed to be a laboratory contaminant due to its presence in laboratory blanks, the trip blank, and samples collected across the entire surface of the site. All methylene chloride detections in off-site subsurface soil were of low magnitude (maximum 200 μg/kg).

Other compounds detected in off-site subsurface soil samples included acetone at CS-8, ethylbenzene at CS-6, naphthalene at CS-7, toluene at CS-6, CS-7, CS-8, and CS-11, trichlorofluoromethane at CS-6, CS-7, and CS-11, m- and p-xylene at CS-6, CS-7, CS-10, and CS-11, and o-xylene at CS-6, CS-7, and CS-8. Many of these detections were qualified by the analytical laboratory as estimated levels. All detections listed were below 10 μg/kg, the quantitation limit for the analytical method, except detections at CS-7 and CS-8. The sample from CS-7 was analyzed twice and the results have been qualified as estimated values due to poor surrogate recoveries during both sampling events. Acetone was detected in the sample from CS-8 at 19 μg/kg.

VOCs similar to those detected at CS-2 were detected in off-site subsurface soil and in the upgradient sample, but the levels detected off the site (up to 20 μg/kg) were significantly less than the levels at CS-2 (up to 67,000

μg/kg). Investigation data indicates the horizontal extent of HEHS chemical residuals is limited.

5.3 SURFACE SOIL AND DRAINAGE TRENCH SEDIMENT

Composite surface soil samples were collected from off-site areas surrounding the HEHS. Composite samples were also collected from sediment at the bottom of the drainage trench along the east side of the site. Sample results indicated that waste material storage at the HEHS has impacted drainage trench sediment. Surface soil at the site has not been impacted by the temporary waste material storage at the HEHS. Locations where surface soil and drainage trench samples were collected are shown in Figure 4-1. Analytical results for surface soil samples are summarized in Table 5-4. Analytical results for trench sediment samples are summarized in Tables 5-5 and 5-6. Laboratory analytical reports are included in Appendix B.

5.3.1 Background Surface Soil

The upgradient composite surface soil sample, Sample SS-1, was collected from soil at a location west of the HEHS site. The sample location is shown on Figure 4-1.

The results of the sample analysis are shown in Tables 5-3 and 5-4. Chlorinated pesticides detected in the sample include 1,272 μg/kg of DDD, 1,637 μg/kg of DDE, and 23,700 μg/kg of DDT. The sample also contained 415 mg/kg of lead, a level above the MDOH Any-Use levels. Organophosphorus pesticides, carbamate pesticides, chlorinated herbicides, and SVOCs were not detected in this sample. It was not analyzed for VOCs. As shown on Figure 5-1, DDD, DDE, and DDT levels in the HEHS are lower than levels detected in off-site areas, including the upgradient sampling location. The site does not appear to be a primary source of DDD, DDE, and DDT detections. Figure 5-4 demonstrates that elevated lead levels were detected in many surface soil and sediment samples, including the upgradient sample.

The upgradient sample was collected to characterize non-HEHS related soil contaminants. Waste from the HEHS could not have migrated to the SS-1 sampling location. The DDD, DDE, DDT, and lead present in the upgradient

sample and other surface soil samples are most likely residuals from past site use, such as the municipal farm.

5.3.2 Drainage Trench Sediment

Because the drainage trench collects storm water runoff from the HEHS, the trench sediment analytical data was expected to best characterize the nature of waste past unintentional HEHS releases. Five composite samples of drainage trench sediment were collected. Sample locations are shown in Figure 4-1. One location had apparently been impacted by an oily material, but the remainder of the trench did not display visible signs of chemical residuals. Sample results are summarized in Tables 5-5 and 5-6.

Sample TS-1 was collected from the trench immediately adjacent to the subsurface soil Sample CS-2. Trench sediment at this location appeared to be decaying organic matter, such as leaves, stained with a black, oily substance. Analysis of the sediment indicated that it contained chlorinated herbicides, SVOCs, and VOCs. The PAH compounds and VOCs detected appear to be largely related to the oil residue on the sediment. Chlorinated, organophosphorus, and carbamate pesticides were not detected.

Chlorinated herbicides found in sediment Sample TS-1 produced a distinctive odor. Herbicides detected included an estimated 1,000 μg/kg of 2,4-D and an estimated 400 μg/kg of Dicamba (see Figure 5-2). Dicamba was only detected in this sediment sample and in adjacent subsurface soil sampling points, CS-2 and CS-8. This data indicates that a accidental release of Dicamba at the HEHS most likely occurred in the past. However, the migration of this compound from the site have been limited. Similarly, 2,4-D was detected primarily in on-site sediment samples TS-1, TS-3, and TS-5. The only other detection of 2,4-D was in sediment from the drainage structure (DSS-2) north of the site. A migration pathway between this site and the drainage structure has not been documented.

SVOC levels of the sediment were below the quantitation limit of the analytical method. Estimated detected levels are 3,788 μg/kg of phenanthrene, 3,119 μg/kg of pyrene, and 8,354 μg/kg of bis(2-ethylhexyl)phthalate.

Table 5-4
Surface Soil Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		831567	831568	831569	831570	831571	831575
Sample Number:		SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
Sample Delivery Group:		34886	34886	34886	34886	34886	34886
Sample Depth From:							
Sample Depth To:							
Sample Date:		3/30/94	3/30/94	3/30/94	3/30/94	3/30/94	3/30/94
PARAMETER	UNITS						
pH		8.39	8.09	7.72	7.73	8.27	8.04
Metals							
Arsenic	mg/kg	4 U	4 U	4 U	4 U	4 U	4 U
Barium	mg/kg	224	144	196	212	177	109
Cadmium	mg/kg	1.6	1.8	2.1	0.6	2.2	2.1
Chromium	mg/kg	11.6	9.6	9	12.4	16.9	7.8
Copper	mg/kg	34.8 J*	1630 J*	41.4 J*	19.2 J*	30.0 J*	37.7 J*
Lead	mg/kg	415 J*	352 J*	416 J*	84 J*	150 J*	118 J*
Manganese	mg/kg	569 J*	319 J*	572 J*	542 J*	357 J*	371 J*
Mercury	mg/kg	0.11	0.18	0.28	0.19	0.26	0.22
Nickel	mg/kg	22	29.2	24.2	17	35.9	23.6
Selenium	mg/kg	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Silver	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Zinc	mg/kg	240	388	1080	110	373	393
Chlorinated Herbicides							
2,4-D	ug/kg	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba	ug/kg	27 U	27 U	27 U	27 U	27 U	27 U
Chlorinated Pesticides							
p,p'-DDD	ug/kg	1272	500	409	6	24	476
p,p'-DDE	ug/kg	1637	1717	1390	16	63	1725
p,p'-DDT	ug/kg	23700	4672	2307	4 U	24 U	5338
Organophosphorus Pesticides		No Detections					
Carbamate Pesticides		No Detections					
Semivolatile Organic Compounds							
Acenaphthalene	ug/kg	662.2 U	666.6 U	107.1 J	654.8 U	664.4 U	664.2 U
Phenanthrene	ug/kg	662.2 U	666.6 U	829.5	654.8 U	664.4 U	664.2 U
Anthracene	ug/kg	662.2 U	666.6 U	154.7 J	654.8 U	664.4 U	664.2 U
Fluoranthene	ug/kg	662.2 U	302 J	556.4 J	654.8 U	641.2 J	664.2 U
Pyrene	ug/kg	662.2 U	179.3 J	643.4 J	654.8 U	320.6 J	664.2 U
Butylbenzylphthalate	ug/kg	662.2 U	226.6 J	665.1 U	654.8 U	220.3 J	664.2 U
Benzo(a)anthracene	ug/kg	662.2 U	666.6 U	665.1 U	654.8 U	213.7 J	664.2 U
Chrysene	ug/kg	662.2 U	666.6 U	665.1 U	654.8 U	230.4 J	664.2 U

Notes:

J - Qualified as estimated by the laboratory; concentration was below quantitation limit.
J* - Qualified as estimated from QC evaluation.
U - Compound was analyzed by the laboratory, but not detected.
U* -Qualified as undetected from QC evaluation.

Table 5-5
Sediment Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		831485	831486	831488	831487	831566	831572	831573	831574
Sample Number:		TS-1	TS-2	TS-4 (dup of TS-2)	TS-3	TS-5	TS-6	DSS-1	DSS-2
Sample Delivery Group:		34859	34859	34859	34859	34886	34886	34886	34886
Sample Depth From:									
Sample Depth To:									
Sample Date:		3/29/94	3/29/94	3/29/94	3/29/94	3/30/94	3/30/94	3/31/94	3/31/94
PARAMETER	UNITS								
pH		7.25	7.8	8.18	7.27	8.17	7.88	7.99	7.84
Metals									
Arsenic	mg/kg	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Barium	mg/kg	158	173	486	167	274	401	226	168
Cadmium	mg/kg	1.2	2.5	30.3	1.2	1.5	4.8	8.5	1.3
Chromium	mg/kg	20.8	14.9	154	26.9	12.5	30.3	27	12.5
Copper	mg/kg	38.2 J*	41.1 J*	32.8 J*	40.2 J*	20 J*	107 J*	64.7 J*	32.9 J*
Lead	mg/kg	881 J*	126 J*	406 J*	923 J*	299 J*	940 J*	275 J*	206 J*
Manganese	mg/kg	220 J*	457 J*	196.2 J*	210 J*	344 J*	400 J*	313 J*	416 J*
Mercury	mg/kg	12.5	0.29	1.74	18.1	0.36	0.47	0.78	0.28
Nickel	mg/kg	13.6	22	22.9	12.3	11.2	15.4	32.1	17.3
Selenium	mg/kg	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Silver	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Zinc	mg/kg	872	1240	525	868	495	2000	1280	251
Chlorinated Herbicides									
2,4-D	ug/kg	1000 E	120 U	120 U	1200 E	516	120 U	120 U	321
Dicamba	ug/kg	500 E	27 U	27 U	27 U	27 U	27 U	27 U	27 U
Chlorinated Pesticides									
g-BHC (Lindane)	ug/kg	26.6 U	13.3 U	269	26.6 U	1.33 U	13.3 U	1330 U	1330 U
p,p'-DDD	ug/kg	73.4 U	101	977	73.4 U	376	277	24300	3670 U
p,p'-DDE	ug/kg	26.6 U	36	182	26.6 U	361	344	8300	1530
p,p'-DDT	ug/kg	80 U	40 U	6569	80 U	3354	3090	175000	41400
Organophosphorus Pesticides					No Detections				
Carbamate Pesticides					No Detections				
Semivolatile Organic Compounds									
2-Methylnaphthalene	ug/kg	26359.1 U	4503.3 J	16638.9 UR	16561.7 U	1325.8 U	3968.2 U	655 U	1327.1 U
N-Nitrosodiphenylamine	ug/kg	26359.1 U	13280.2 U	16638.9 UR	1938.8 J	1325.8 U	3968.2 U	655 U	491.4 J
Phenanthrene	ug/kg	3787.9 J	3080.1 J	16638.9 UR	3774 J	1325.8 U	3968.2 U	198.2 J	517.9 J
Di-n-butylphthalate	ug/kg	26359.1 U	13280.2 U	16638.9 UR	16561.7 U	1325.8 U	3968.2 U	696.9	1327.1 U
Fluoranthene	ug/kg	26359.1 U	13280.2 U	16638.9 UR	3035 J	1386.7	3968.2 U	411 J	1327.1 U
Pyrene	ug/kg	3118.8 J	13280.2 U	16638.9 UR	3958 J	907.2 J	3968.2 U	217.3 J	303.8 J
Butylbenzylphthalate	ug/kg	26359.1 U	13280.2 U	3240.2 J*	16561.7 U	2239.7	3968.2 U	264.5 J	1327.1 U
Benzo(a)anthracene	ug/kg	26359.1 U	13280.2 U	16638.9 UR	16561.7 U	449.3 J	3968.2 U	115.9 J	1327.1 U
Chrysene	ug/kg	26359.1 U	13280.2 U	16638.9 UR	16561.7 U	500.7 J	3968.2 U	123.4 J	1327.1 U
bis(2-Ethylhexyl)phthalate	ug/kg	8354.5 J	13280.2 U	16638.9 UR	12355 J	1325.8 U	3968.2 U	655 U	1327.1 U

Notes:

J - Qualified as estimated by the laboratory; concentration was below quantitation limit.
J* - Qualified as estiamted from QC evaluation.
U - Compound was analyzed by the laboratory, but not detected.
R - Qualified as unusable from QC evaluation.
E - Estimated value exceeded calibration range of the analytical equipment.

Table 5-6
Sediment VOC Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		831485	831485DL	831486	831487	831487 RE	831566	831573	831574
Sample Number:		TS-1	TS-1	TS-2	TS-3	TS-3	TS-5	DSS-1	DSS-2
Sample Delivery Group:		34859	34859	34859	34859	34859	34886	34886	34886
Sample Depth From:									
Sample Depth To:									
Sample Date:		3/29/94	3/29/94	3/29/94	3/29/94	3/29/94	3/31/94	3/31/94	3/31/94
PARAMETER	UNITS								
Volatile Organic Compounds									
Acetone	ug/kg	20 U	100 U	2.6 UJ*	2.6 U	2.6 UJ*	2.6 U	2.6 U	10 U
Benzene	ug/kg	10 U	50 U	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	5 U
n-Butylbenzene	ug/kg	10 U	50 U	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	5 U
sec-Butylbenzene	ug/kg	240 J*	400	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	5 U
1,2-Dichlorobenzene	ug/kg	10 U	50 U	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	41
Ethylbenzene	ug/kg	10 U	50 U	1.3 UJ*	1.3 U	1.3 UJ*	2.7 J	1.3 U	5 U
p-Isopropyltoluene	ug/kg	1500 J*	2400	1.3 UJ*	61 J*	1.3 UJ*	1.3 U	1.3 U	5 U
Isopropylbenzene	ug/kg	10 U	50 U	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	5 U
4-Methyl-2-pentanone	ug/kg	20 U	100 U	2.6 UJ*	2.6 U	2.6 UJ*	2.6 U	2.6 U	10 U
Methylene chloride	ug/kg	60 BU*	310	13 J*	1.3 U	25 J*	22 BU*	20 BU*	72 T
Naphthalene	ug/kg	10 U	50 U	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	5 U
n-Propylbenzene	ug/kg	10 U	50 U	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	5 U
1,2,4-Trimethylbenzene	ug/kg	150 J*	280	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	5.5 J
1,3,5-Trimethylbenzene	ug/kg	3400 J*	4100	1.3 UJ*	1.3 U	1.3 UJ*	1.3 U	1.3 U	13 J
Toluene	ug/kg	19 J	50 U	1.3 UJ*	1.3 U	1.3 UJ*	2.3 J	1.3 U	5 U
Trichlorofluoromethane	ug/kg	68 J*	50 U	1.3 UJ*	59 J*	1.3 UJ*	1.3 U	1.3 U	5 U
Xylene (m-,p-)	ug/kg	40 J	100 J	1.3 UJ*	8.5 J*	1.3 UJ*	19	1.3 U	5 U
o-Xylene	ug/kg	1200 J*	1200	1.3 UJ*	42 J*	1.3 UJ*	5.8 J	1.3 U	5 U

Notes:

J - Qualified as estimated by the laboratory; concentration was below quantitation limit.
J* - Qualified as estimated from QC evaluation.
U - Compound was analyzed by the laboratory, but not detected.
U* - Qualified as undetected from QC evaluation.
B - Detected in the associated laboratory method blank.
T - Detected in associated trip blank.

The sediment sample from TS-2 was also analyzed for dioxin compounds. Results of the dioxin analysis indicated a concentration of 27 μg/kg of octochlorodioxin (OCDD) compounds in the trench sediment. The total concentration of dioxin and furan compounds in the sample was indicated to be 162.2 μg/kg. The detected dioxin/furan compound were calculated by the laboratory to exhibit a total 2,3,7,8-TDCC toxicity equivalent of 0.028 μg/kg. Comparison of this level to the 2,3,7,8-TCDD remediation standard of 1 μg/kg established for residential areas in eastern Missouri indicates dioxin toxicity concerns identified for the site are not significant. Based on this data dioxins were not selected as a chemical of concern for this site.

VOCs detected in the sediment included an estimated 19 μg/kg of toluene, 100 μg/kg of xylene (m-,p-), 310 μg/kg of methylene chloride, 68 μg/kg of trichlorofluoromethane, 280 μg/kg of 1,2,4-trimethylbenzene, 400 μg/kg of sec-butylbenzene, 1,200 μg/kg of o-xylene, 2,400 μg/kg of p-isopropyltoluene, and 4,100 μg/kg of 1,3,5-trimethylbenzene.

Metals detected at elevated levels included lead (881 μg/kg), zinc (871.5 μg/kg), and mercury (12.5 μg/kg). Other inorganic sample analysis results are summarized in Table 5-5. Metals found in elevated concentrations during the investigation are shown in Figure 5-4.

The SVOCs and VOCs detected in Sample TS-1 were likely constituents of the oily material observed in the sediment. The chlorinated herbicides also may have been associated with the oily material or another material stored in the HEHS. Elevated levels of metals in the sediment are apparently residuals of materials stored at the HEHS.

Immediately north of Sample TS-1 is a low, asphalt curb, apparently intended to keep storm water from flowing north out of the HEHS. Sample TS-2 was collected from sediment on the north side of this curb. Samples TS-3, TS-5, and TS-6 were collected from the southern portion of the drainage trench.

Chlorinated herbicides, organophosphorus pesticides, and carbamate pesticides were not detected at sampling location TS-2. Chlorinated pesticides detected

included 269 μg/kg of γ-BHC (Lindane), 977 μg/kg of DDD, 182 μg/kg of DDE, and 6,569 μg/kg of DDT. These detected DDT, DDE, and DDD levels are lower than levels detected at the off-site upgradient surface soil location. Three SVOCs were detected below the quantitation limit, 4,503 μg/kg of 2-methylnaphthalene, 3,080 μg/kg of phenanthrene, and 3,240 μg/kg of butylbenzylphthalate. The only VOC detected in Sample TS-2 was 13 μg/kg of methylene chloride, a common laboratory contaminant. Elevated levels of metals detected in this sample included 30.3 mg/kg of cadmium, 154.2 mg/kg of chromium, 1,240 mg/kg of zinc, and 406 mg/kg of lead.

Sediment Sample TS-6 was collected from the trench north of the fenced HEHS facility. Chlorinated pesticides detected in this sample included 277 μg/kg of DDD, 344 μg/kg of DDE, and 3,090 μg/kg of DDT. Organophosphorus pesticides, carbamate pesticides, chlorinated herbicides, and SVOCs were not detected in the sediment sample. The sediment sample was not analyzed for VOCs due to the thin layer of sediment observed at this location. Elevated levels of metals detected in this sample included 4.8 mg/kg of cadmium, 2,000 mg/kg of zinc, 106.3 mg/kg of copper and 1,945 mg/kg of lead.

Sample TS-3 was collected from the trench south of TS-1. Chlorinated, organophosphorus, and carbamate pesticides were not detected in the sediment sample from TS-3. A chlorinated herbicide, 2,4-D, was detected at an estimated level of 1,200 μg/kg. Five SVOCs were detected at levels below their quantitation limits. The estimated detected values were 12,355 μg/kg of bis(2-ethylhexyl)phthalate, 3,035 μg/kg of fluoranthene, 1,939 μg/kg of n-nitrosodiphenylamine, 3,774 μg/kg of phenanthrene, and 3,958 μg/kg of pyrene. The only VOC detected was 25 μg/kg of methylene chloride, a common laboratory contaminant. Elevated levels of metals detected in this sample included 867.7 mg/kg of zinc, 923 mg/kg of lead, and 18.05 mg/kg of mercury.

Sample TS-5 was collected in the drainage trench at the southern end of the HEHS. Chlorinated pesticides detected in this sample included 376 μg/kg of DDD, 361 μg/kg of DDE, and 3,354 μg/kg of DDT. Organophosphorus or carbamate pesticides were not detected. One chlorinated herbicide, 2,4-D, was detected at 516 μg/kg in this sample. Five SVOCs were detected below quantitation

limits. The estimated detected values of these SVOCs were 1,386 μg/kg of benzo(a)anthracene, 2,240 μg/kg of butylbenzylphthalate, 500 μg/kg of chrysene, 1,387 μg/kg of fluoranthene, and 907 μg/kg of pyrene. VOCs detected in the sample included 22 μg/kg of methylene chloride, a common laboratory contaminant, 2.3 μg/kg of toluene, 2.7 μg/kg of ethylbenzene, 5.8 μg/kg of o-xylene, and 19 μg/kg of m- and p-xylene. Elevated levels of metals detected in this sample included 299 mg/kg of lead.

Some waste residues found in the drainage trench, such as chlorinated herbicides and VOCs, are apparently confined to the trench and subsurface soil beneath the HEHS (low levels of VOCs were found in areas off-site, but not in locations or levels which indicate migration from on-site sources). Other residues, such as chlorinated pesticides and lead, have been observed in the trench and property surface soil. Surface soil from the area in and around the HEHS, including soil and sediment in the drainage trench, generally contained levels of DDD, DDE, DDT, and lead. As indicated by the widespread presence of these compounds, the source is apparently not the HEHS, but past site activities.

5.3.3 Off-Site Surface Soil

Surface soil samples were collected from six locations, including a upgradient sample. Sample locations are shown on Figure 4-1. Chlorinated herbicides, organophosphorus pesticides, and carbamate pesticides were not detected in any of the surface soil samples. These samples were not analyzed for VOCs. All surface soil samples, including the upgradient sample, contained chlorinated pesticide compounds, and approximately half of the samples contained elevated levels of lead. SVOCs detected in the surface soil samples were generally detected below the method quantitation limit.

Sample SS-2 was collected just outside the southern end of the HEHS and contained 500 μg/kg of DDD, 1,717 μg/kg of DDE, and 4,672 μg/kg of DDT. Sample SS-2 contained 352 mg/kg of lead and 1,627 mg/kg of copper, a level higher than any other sample. Three SVOCs were detected in this sample at levels below the quantitation limit. This sample also contained 227 μg/kg of butylbenzylphthalate, 302 μg/kg of fluoranthene, and 179 μg/kg of pyrene.

Sample SS-3 was collected just outside the northern end of the HEHS and contained 409 μg/kg of DDD, 1,390 μg/kg of DDE, and 2,307 μg/kg of DDT. This soil sample also contained 416 mg/kg of lead and 1,080 mg/kg of zinc. Four SVOCs were detected in this sample at levels below the quantitation limit. Detected SVOCs were 107 μg/kg of acenaphthalene, 155 μg/kg of anthracene, 556 μg/kg of fluoranthene, and 643 μg/kg of pyrene. Phenanthrene was also detected, at a level of 829 μg/kg.

Sample SS-4 was collected downhill from the HEHS along the west wall of the kennel building. This surface soil sample contained 6 μg/kg of DDD, 16 μg/kg of DDE, and 84 mg/kg of lead. SVOCs and DDT were not detected in this sample.

Sample SS-5 was collected downhill from the HEHS at the northwest corner of the kennel building and contained 24 μg/kg of DDD, 63 μg/kg of DDE, and 150 mg/kg of lead. Five SVOCs were detected in the sample at levels below the quantitation limit, including 213 μg/kg of benzo(a)anthracene, 220 μg/kg of butylbenzylphthalate, 230 μg/kg of chrysene, 641 μg/kg of fluoranthene, and 321 μg/kg of pyrene.

Sample SS-6 was collected east of the center of the HEHS area and contained 476 μg/kg of DDD, 1,725 μg/kg of DDE, 5,338 μg/kg of DDT, and 118 mg/kg of lead. SVOCs were not detected in this sample.

Surface soil and drainage trench sample results indicated that the chlorinated herbicides DDD, DDE, and DDT are present in surface soil in the general area of the HEHS, but the source of these contaminants is probably not the HEHS. Lead is also present in surface soil and trench sediment, with the highest concentrations in the trench sediment samples. High lead and mercury levels in the trench sediment indicated that a accidental release may have occurred at the HEHS. However, the presence of lead in the upgradient soil sample indicated that an additional contributing lead source besides materials stored inside the HEHS must have been present. The high level of copper is localized and similar levels were not seen in other samples.

5.4 DRAINAGE STRUCTURE SEDIMENT

Upgradient samples of drainage structure sediment were not collected during the SC field activities. The drainage structures were observed to collect water during a rainfall event, indicating that they apparently receive surface water flow; therefore, the surface soil upgradient sample serves as a suitable upgradient sample for the drainage structures. The drainage area which flows to these subsurface drainage structures has not been determined.

Samples were collected from two drainage structures near the site. As shown in Figure 4-1, DSS-1 was collected in the drainage structure southeast of the HEHS, and DSS-2 was collected in a structure northwest of the HEHS area. Sample results are summarized in Tables 5-5 and 5-6. Organophosphorus and carbamate pesticides were not detected in these samples.

Sample DSS-1 contained three chlorinated herbicides, including 24,000 μg/kg of DDD, 8,300 μg/kg of DDE, and 175,000 μg/kg of DDT. It also contained elevated levels of lead (275 mg/kg). Seven SVOCs were detected in the sediment, including 116 μg/kg of benzo(a)anthracene, 265 μg/kg of butylbenzylphthalate, 123 μg/kg of chrysene, 697 μg/kg of di-n-butylphthalate, 411 μg/kg of fluoranthene, 198 μg/kg of phenanthrene, and 217 μg/kg of pyrene. Only one VOC, 20 μg/kg of methylene chloride, a common laboratory contaminant, was detected in the sample.

Sample DSS-2 contained DDE (1,530 μg/kg) and DDT (41,400 μg/kg). The sediment sample from DSS-2 also contained 2,4-D at a level of 321 μg/kg. The sample contained elevated levels of lead (206 mg/kg). Three SVOCs were detected in the sediment, n-nitrosodiphenylamine (491 μg/kg), phenanthrene (518 μg/kg), and pyrene (304 μg/kg). Four VOCs were detected in the sample, including 41 μg/kg of 1,2-dichlorobenzene, 72 μg/kg of methylene chloride (a common laboratory contaminant), an estimated 5.5 μg/kg of 1,2,4-trimethylbenzene, and 13 μg/kg of 1,3,5-trimethylbenzene. This was the only detection of 1,2-dichlorobenzene on the property; therefore, this compound is not expected to be site related.

The presence of chlorinated herbicides and lead is consistent with levels of the same compounds in surrounding surface soils (see Figures 5-1 and 5-4). Chemicals detected in the drainage structures generally reflect the substances

found in sediment and surface samples at elevated levels. Sediment at the bottom of the structures most likely contains herbicides from the same source as the surface soil. Because 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and 2,4-D were not detected at off-site locations, runoff from the HEHS may reach this drainage structure. However, the HEHS area is clearly not the only area draining to this structure. Off-site sources of these compounds could also exist.

5.5 STORM WATER

Three water samples were collected during the field activities. One sample each was collected from the drainage structures where sediment was sampled. Stormwater sample CW-1 was collected from the drainage structure located southeast of the HEHS, and sample CW-2 from the drainage structure northwest of the HEHS. Sample SW-1 was obtained from a surface water pool in the drainage trench and on the concrete surface just north of the HEHS. Uneven settlement of the concrete slab at this sampling point created the low area allowing surface water ponding to occur and cracking of the concrete slab. Surface water pooled in this area appeared to infiltrate into the ground after the rainfall event. Sample results are included in Tables 5-7 and 5-8. Organophosphorus and carbamate pesticides were not detected in these samples.

Sample CW-1 contained 1.3 μg/kg of DDE, a chlorinated pesticide. Chlorinated herbicides, SVOCs, and VOCs were not detected in the sample. Metals detected in low levels in the sample included 0.041 mg/kg of barium, 0.007 mg/kg of copper, 0.02 mg/kg of manganese, and 0.045 mg/kg of zinc.

Sample CW-2 contained 3 μg/kg of 2,4-D, a chlorinated herbicide. Chlorinated pesticides and VOCs were not detected in the sample. One SVOC was detected -- 16.8 μg/kg of pentachlorophenol. Metals detected in low levels in the samples included 0.062 mg/kg of barium, 0.009 mg/kg of copper, 0.011 mg/kg of manganese, and 0.024 mg/kg of zinc.

Chlorinated herbicides, chlorinated pesticides, SVOCs, and VOCs (other than methylene chloride at the detection limit) were not detected in Sample SW-1. Metals detected in the sample included 0.028 mg/kg of barium, 0.015 mg/kg of

copper, 0.04 mg/kg of lead, 0.035 mg/kg of manganese, 0.0001 mg/kg of mercury, and 0.054 mg/kg of zinc.

Chlorinated pesticides and herbicides, SVOCs, and VOCs detected in these samples were found in very low levels near method quantitation limits. The same metals were detected in each water sample, with the exceptions of lead, found at 0.04 mg/kg in CW-1, 0.01 mg/kg above the quantitation limit, and mercury, detected at the quantitation limit of 0.0001 mg/kg in CW-1.

* * * * *

Table 5-7
Water Sample Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

Lab Identification Number:		832110	832111	832112
Sample Number:		CW-1	CW-2	SW-1
Sample Delivery Group:		34983	34983	34983
Sample Depth From:				
Sample Depth To:				
Sample Date:		4/11/94	4/11/94	4/11/94
PARAMETER	UNITS			
Flashpoint	Degrees Fahrenheit	> 200	> 200	> 200
Metals				
Arsenic	mg/kg	0.04 U	0.04 U	0.04 U
Barium	mg/kg	0.041	0.062	0.028
Cadmium	mg/kg	0.002 U	0.002 U	0.002 U
Chromium	mg/kg	0.002 U	0.002 U	0.002 U
Copper	mg/kg	0.007	0.009	0.015
Lead	mg/kg	0.03 U	0.03 U	0.04
Manganese	mg/kg	0.02	0.011	0.035
Mercury	mg/kg	0.0002 U*	0.0001 U*	0.0005 U*
Nickel	mg/kg	0.007 U	0.007 U	0.007 U
Selenium	mg/kg	0.035 U	0.035 U	0.035 U
Silver	mg/kg	0.003 U	0.003 U	0.003 U
Zinc	mg/kg	0.045	0.024	0.054
Chlorinated Herbicides				
2,4-D	ug/kg	12 U	3	12 U
Dicamba	ug/kg	3 U	3 U	3 U
Chlorinated Pesticides				
p,p'-DDD	ug/kg	1.3	0.11 U	0.11 U
p,p'-DDE	ug/kg	0.04 U	0.04 U	0.04 U
p,p'-DDT	ug/kg	0.12 U	0.12 U	0.12 U
Organophosphorus Pesticides			No Detections	
Carbamate Pesticides			No Detections	
Semivolatile Organic Compounds				
Pentachlorophenol	ug/kg	21.7 U	16.8	20.7 U

Notes:
J - Qualified as estimated by the laboratory; concentration was below quantitation limit.
J*- Qualified as estimated from QC evaluation.
U - Compound was analyzed by the laboratory, but not detected.
U*- Qualified as undetected from QC evaluation.

Table 5-8
Water Samples - VOC Analytical Results
Health Emergency Hazmat Site
City of Kansas City, Missouri

	Lab Identification Number:	832110	832111	832112
	Sample Number:	CW-1	CW-2	SW-1
	Sample Delivery Group:	34983	34983	34983
	Sample Depth From:			
	Sample Depth To:			
	Sample Date:	3/31/94	3/31/94	3/31/94
PARAMETER	UNITS			
Volatile Organic Compounds				
Acetone	ug/kg	2 U	2 U	2 U
Benzene	ug/kg	1 U	1 U	1 U
n-Butylbenzene	ug/kg	1 U	1 U	1 U
sec-Butylbenzene	ug/kg	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/kg	1 U	1 U	1 U
Ethylbenzene	ug/kg	1 U	1 U	1 U
p-Isopropyltoluene	ug/kg	1 U	1 U	1 U
Isopropylbenzene	ug/kg	1 U	1 U	1 U
4-Methyl-2-pentanone	ug/kg	2 U	2 U	2 U
Methylene chloride	ug/kg	2 U	2 J	2.3 J
Naphthalene	ug/kg	1 U	1 U	1 U
n-Propylbenzene	ug/kg	1 U	1 U	1 U
1,2,4-Trimethylbenzene	ug/kg	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/kg	1 U	1 U	1 U
Toluene	ug/kg	1 U	1 U	1 U
Trichlorofluoromethane	ug/kg	1 U	1 U	1 U
Xylene (m-,p-)	ug/kg	1 U	1 U	1 U
o-Xylene	ug/kg	1 U	1 U	1 U

Notes:

J - Qualified as estimated by the laboratory; concentration was below quantitation limit.
U - Compound was analyzed by the laboratory; but not detected.

6.0 TRANSPORT AND FATE

6.1 INTRODUCTION

This section evaluates potential hazardous substance mobility through consideration of chemical properties, physical site characteristics, and the nature and extent of observed hazardous substance distribution. Preliminary transport and fate conclusions for the principal chemicals of concern were evaluated through a review of site sampling and analysis data. Conclusions of the chemical transport and fate analysis will be utilized to assess potential environmental impacts of the HEHS in its current condition.

6.2 CHEMICALS OF CONCERN

Soil and water samples collected during the field investigation were analyzed for chlorinated herbicides and pesticides, organophosphorus pesticides, carbamate pesticides, volatile and semivolatile organic compounds, and selected metals. Soil samples were obtained from areas at the HEHS and or adjacent property most likely to be impacted by past site activities. The goal of this sampling approach was to characterize the maximum levels of hazardous substances present on or near the HEHS and to assess potential past accidental release impacts.

Most parameters for which samples were analyzed were not detected in soil and water samples from the site. Tables 6-1, 6-2, and 6-3 summarize organic compounds and metals detected in soil samples obtained during the investigation. For comparative purposes, these tables also provide literature or detected background levels or available health-based remedial standards for soil. Chemicals of concern have been selected based on the frequency of detection, the magnitude of detection, and available health-based remedial standards. The chemicals of concern selected for this site are DDD, DDE, DDT, and lead.

Other compounds detected were present at low levels, within health-based standards, or detected infrequently in the soil samples analyzed. Levels of chrysene and benzo(a)anthracene detected in trench sediment Sample TR-5 slightly exceeded health-based standards; however, these compounds were

Table 6-1
Summary Of Metals Detected
In Soil And Sediment
City Of Kansas City, Missouri
Health Emergency Hazmat Site

Parameter	Range Detected (mg/kg)	Average Background Level * (mg/kg)	MDOH Any-Use Levels** (mg/kg)	EPA Region III Risk Based Industrial/ Commerical Soil Standards*** (mg/kg)
Arsenic	U(4.0) - 12	9	11	310
Barium	40 -485	580	3900	72,000
Cadmium	U(0.2) - 30.3	< 1	28	510
Chromium	4.1 - 154.2	54	280	5100
Copper	14.1 - 1,627	13	-	38,000
Lead	U(3.0) - 1,945.0	20	240	-
Manganese	80.4 - 1,247	740	5600	5100
Mercury	0.5 - 18.1	0.04	17	310
Nickel	11.2 - 49.5	14	1100	20,000
Selenium	U(3.5)	0.3	280	5100
Silver	U(0.3) - 0.5	-	280	5100
Zinc	42.6 - 2,000	49	5600	310,000

U Undetected at the detection limit shown in parentheses
* Background information from Geochemical Survey of Missouri, USGS Professional Paper 965-H,I
** Missouri Department of Health Proposed Standards
*** USEPA Region III Risk Based Concentration Table, Fourth Quarter, 1993

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Table 6-2
Summary of
Herbicide, Pesticide, and Semivolatile Organic Compounds
Detected in Soil and Sediment
City of Kansas City, Missouri
Health Emergency Hazmat Site

Parameters	Number of Times Detected	Range Reported (ug/kg)	MDOH Any-Use Levels* (ug/kg)	EPA Region III Risk-Based Industrial/ Commerical Soil Standard** (ug/kg)
2, 4 - D	4	U(120) - 1,200 E	560,000	10,000,000
Dicamba	3	U(27) - 500 E	1,700,000	31,000,000
DDD	18	U(3.7) - 24,300	21,000	12,000
DDE	19	U(1.3) - 8,300	15,000	8400
DDT	13	U(4) - 175,000	15,000	8400
g-BHC (Lindane)	1	U(1.3) - 269	8400	2200
Phenol	1	U(330) - 35.9	34,000,000	61,000,000
2,4-Dimethylphenol	1	U(330) - 584.4	-	20,000,000
Napthalene	2	U(330) - 226.5	230,000	41,000,000
2-Methlynapthalene	4	U(330) - 4,503.3	-	-
Di-n-Butylphthalate	2	U(330) - 696.9	5,600,000	100,000,000
Fluoranthene	6	U(330) - 3,035	2,300,000	41,000,000
Bis(2-ethylhexyl)adipate	1	U(330) - 1,072	-	-
Phenanthrene	7	U(330) - 829.5	-	-
Pentachlorophenol	1	U(330) - 191.2	42,000	24,000
Pyrene	8	U(330) - 3,958	1,700,000	3,100,000
Butylbenzylphthalate	5	U(530) - 3,240	5,600,000	200,000,000
Benzo(a)anthracene	3	U(330) - 449.3	440	3900
Chrysene	3	U(330) - 500.7	440	390,000
n-Nitrosodiphenylamine	2	U(330) - 1,938.8	-	580,000
Acenaphthalene	1	U(330) - 107.1	-	4,700,000
Anthracene	1	U(330) - 154.7	17,000,000	310,000,000

U Undetected at the detection limit shown in parentheses
* Missouri Department of Health Proposed Standard
** USEPA Region III Risk Based Concentration Table, Fourth Quarter, 1993

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Table 6-3
Summary of
Volatile Organic Compounds
Detected in Soil and Sediment
City of Kansas City, Missouri
Health Emergency Hazmat Site

Parameters	Number of Detections	Range Detected (ug/kg)	MDOH Any-Use Levels* (ug/kg)	EPA Region III Risk Based Industrial/ Commerical Soil Standard** (ug/kg)
Acetone	7	U(2.6) - 5,400	5,600,000	100,000,000
Benzene	1	U(1.0) - 5.6	170,000	99,000
n-Butylbenzene	2	U(1.3) - 100	-	-
sec-Butylbenzene	2	U(1.3) - 400	-	-
1,2-Dichlorobenzene	1	U(1.3) - 41	5,100,000	92,000,000
Ethylbenzene	4	U(1.3) - 16,000	5,600,000	100,000,000
p-Isopropyltoluene	4	U(1.0) - 2,400	-	-
Isopropylbenzene	2	U(1.3) - 320	-	-
4-Methyl-2-pentanone	2	U(2.0) - 470	-	-
Methylene Chloride	16	U(1.3) - 310	670,000	380,000
Napthalene	3	U(1.3) - 300	230,000	41,000,000
n-Propylbenzene	2	U(1.0) - 140	-	-
1,2,4-Trimethylbenzene	5	U(1.0) - 810	-	-
1,3,5-Trimethylbenzene	3	U(1.0) - 4,100	-	-
Toluene	12	U(1.3) - 1,000	11,000,000	200,000,000
Trichlorofluoromethane	7	U(1.0) - 3,200	17,000,000	310,000,000
Xylene (m-,p-)	13	U(1.3) - 67,000	110,000,000	160,000,000
o-xylene	9	U(1.3) - 30,000	110,000,000	160,000,000

U Undetected at the detection limit shown in parentheses
* Missouri Department of Health Proposed Standards
** USEPA Region III Risk-Based Concentration Table, Fourth Quarter, 1993

	2008 MDTLs	RETLs res	RBTLs comm
*Benzene	56 µg/kg		
*Ethylbenzene	39000		
*NAPTHALENE	325		
p-Isopropyltoluene	271,000		
*1,2,4 Trimethylbenzene	5,930		
*1,3,5 trimethylbenzene	982		
Toluene	29,000		
*Trichlorofluoromethane	7,350		
*Xylenes	24 700		

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detected infrequently on the property and at low levels. Lower levels of numerous organic compounds and metals were detected in samples obtained during the investigation. These compounds were not detected at frequencies or levels which pose health concerns and are not identified as primary chemicals of concern for the property; however, the characteristics of these compounds are briefly discussed in this section.

6.2.1 Petroleum-Related Hydrocarbons

A significant number of petroleum-related hydrocarbons were detected the soil samples obtained from CS-2, TS-1, and TS-2. The storage area surface and sediment in the drainage trench appeared to be oil stained at the time of the investigation. Samples obtained from these locations (primarily CS-2 and TS-1) were discolored and odorous.

Analytical results for these samples reported the presence of the following petroleum-related hydrocarbons:

- Phenanthrene
- Pyrene
- Benzene
- Ethylbenzene
- Toluene
- Xylene
- n-butylbenzene
- sec-butylbenzene
- Isopropylbenzene
- n-propylbenzene
- Naphthalene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- 2-methylnaphthalene

These compounds were generally detected in the area of observed soil discoloration. Detected chemical levels at nearby surface and subsurface sampling points did not indicate that oil contamination was widespread or

migration from the property was a concern. Based on the limited occurrence and relatively low levels of the compounds present on the property, the observed oil residual was not identified as a concern.

6.2.2 Solvents

VOCs commonly used as solvents (acetone, methylene chloride, xylenes, and toluene) were detected in several samples from the HEHS and surrounding area. Xylene and toluene, also petroleum-related hydrocarbons, were detected at the highest levels at oil stained sampling locations. The VOCs were detected frequently; however, often at levels below the quantitation limit of the laboratory analytical method. Based on the relatively low levels of VOCs detected in samples not containing visible oil residuals, solvent occurrence on the property is not expected to pose environmental concerns.

Methylene chloride, acetone, and toluene are often used in laboratories and are common analytical laboratory contaminants. Due to the presence of methylene chloride in trip and method blanks, the detection of this compound in samples is attributed to laboratory contamination.

6.2.3 Polynuclear Aromatic Hydrocarbons

Several PAHs were detected in soil samples obtained during the investigation. The PAH compounds detected on the property included acenapthalene, fluoranthene, phenanthrene, pyrene, chrysene, benzo(a) anthracene, and anthracene. PAHs were most frequently present in surface soil and sediment. PAH compounds may be constituents of petroleum fuels and are also products of incomplete combustion. In urban areas, these compounds are ubiquitous in the environment, as indicated by typical PAH level information compiled by the Agency for Toxic Substances and Disease Registry (ATSDR) and presented in Table 6-4. Despite the absence of PAH compounds at an upgradient sampling location, the detected property levels are within typical background levels and do not suggest that accidental releases of PAHs have occurred in the past.

Table 6–4
Typical Background Levels of PAH in Soil (mg/kg)[1]
City Of Kansas City, Missouri
Health Emergency Hazmat Site

Compounds	Rural Soil	Agricultural Soil	Urban Soil
Acenapthene	0.002	0.006	
Acenapthylene		0.005	
Anthracene		0.011-0.013	
Benzo(a)anthracene	0.005-0.02	0.06-0.11	0.17-59
Benzo(a)pyrene	0.002-1.3	0.005-0.9	0.17-0.22
Benzo(b)fluoranthene	0.02-0.03	0.06-0.22	15-62
Benzo(e)pyrene		0.06-0.13	0.06-14
Benzo(ghi)perylene	0.01-0.07	0.07	0.9-47
Benzo(k)fluoranthene	0.01-0.11	0.06-0.25	0.3-26
Chrysene	0.04	0.08-0.12	0.25-0.64
Fluoranthene	0.0003-0.04	0.12-0.21	0.2-166
Fluorene		0.01	
Indeno(1,2,3-cd)pyrene	0.01-0.015	0.063-0.1	8-61
Phenanthrene	0.03	0.05-0.14	
Pyrene	0.001-0.02	0.1-0.15	0.15-147
Total PAH's[2]	0.13-1.67	0.76-2.34	25.2-582.86

(1) Taken from, "Toxicological Profile for Polycyclic Aromatic Hydrocarbons," prepared by the U.S. Department of Health and Human Services.
(2) Sum of individual PAH values presented in the PAH Toxicological Profile Report.

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6.2.4 Metals

Elevated metal levels were detected in soil and sediment samples obtained from the HEHS area. Cadmium, chromium, lead, mercury, copper, and zinc levels in sediment from the HEHS drainage trench appeared to be elevated compared to average regional background metal concentrations for soil (see Tables 5-3 and 5-5). Zinc, lead, and copper levels were elevated in some surface soil samples from areas immediately adjacent to the HEHS. Metals detected in soil samples from off-site sampling points further from the HEHS appeared to be within regional background levels, except elevated lead levels in the upgradient surface soil sample.

Levels of lead detected on the property exceeded typical MDOH cleanup guidelines for soil in residential areas. Soil levels of other metals did not exceed MDOH health-based cleanup standards. Because the extent of elevated metal levels was limited and detected metal concentrations were generally within applicable health-based standards, lead was the only metal selected as a chemical of concern for this site.

6.3. CHEMICAL PHYSICAL PROPERTIES

6.3.1 DDD, DDE, and DDT

DDT and DDD were pesticides frequently used to control insects on agricultural plants. The use of DDT was banned in the United States in 1972. DDE is a breakdown product of DDT, with similar chemical structure and physical characteristics. In general, these compounds exhibit a strong preference for adsorption to soil particles, a low solubility, and extreme persistence in the environment. Due to these physical characteristics, these compounds have a low mobility potential. DDD, DDE and DDT migration is most likely a result of the erosion of soil having adsorbed pesticide residuals. Chemical properties of the organic compounds detected most frequently on the property are summarized in Table 6-5.

6.3.2. Lead

Lead is a dense, blue-gray metal used in paints and batteries which also occurs naturally in soil. In the past, lead has been used as a gasoline

TABLE 6-5
PHYSICAL PROPERTIES OF DETECTED ORGANIC COMPOUNDS
CITY OF KANSAS CITY, MISSOURI
HEALTH EMERGENCY HAZMAT SITE

Parameter	Water Solubility (1) (ug/l)	Organic Carbon Partitioning Coefficient (Koc) (ml/g)	Vapor Pressure (1) (mm Hg)	Bioaccumulation Factor (1) (BCF) (l/kg)	Half-Life in Surface Water (years)	Half-Life in Soil (years)
DDT	5	243000	5.50E-06	54000	0.02 - 1.0	2 - 15.6
DDE	40	4400000	6.80E-05	51000	0.02	2 - 15.6
DDD	100	770000	1.89E-06	-	-	2 - 15.6
2,4-D	620000	20	4.00E-01	-	-	0.14
Dicamba	4500000	0.4	-	-	-	-
g-BHC (Lindane)	7800	1080	1.60E-04	130	0.04 - 0.66	0.66
Xylenes	175000	25.4	1.00E+01	2.2	0.02 - 0.08	0.02 - 0.08
Toluene	535000	300	2.81E+01	10.7	0.01 - 0.06	0.01 - 0.06
Trichlorofluoromethane	1100000	159	6.67E+02	Minimal	0.5 - 1.0	0.5 - 1.0
Acetone	1000000	2.2	2.70E+02	-	< 0.02	< 0.02
Pyrene	132	38000	2.50E-06	-	-	0.6 - 5.2
Fluoranthene	206	38000	5.00E-06	1150	0.01	0.4 - 1.2
Butylbenzylphthalate	2690	68 to 350	8.60E-06	663	< 0.02	< 0.02
2-Methylnaphthalene	-	-	-	-	-	-
Methylene chloride	20000000	8.8	3.62E+02	-	0.02 - 0.08	0.02 - 0.08

(1) Physical characteristic data obtained from Superfund Health Evaluation Manual, and Handbook of Environmental Fate and Exposure Data for Organic Chemicals.
(2) Half-life information obtained from Handbook of Environmetal Degradation Rates, Philip H. Howard, et. al., 1991.

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additive and in pesticides. Due to its prevalent use, many sources may contribute to the lead levels detected in soil in an urban area.

Lead has a long residence time compared to most other chemicals. Lead, due to its low solubility, tends to accumulate in surface soil and sediment. Due to its low solubility and mobility, bioavailability of most lead complexes is also considered to be low.

6.4 CHEMICAL MOBILITY

6.4.1 Air Pathway

The detected chemicals of concern, DDD, DDE, DDT, and lead, each have a low volatilization potential and would not be expected to migrate from the site in a vapor state. Release potential through the air pathway would be limited to releases of blowing dust. The potential for blowing dust releases is minimized by concrete site surface and the vegetative growth around the Hazmat Site. The grass and brush serves as a wind break and also stabilizes surface soil. In its current state, a low potential exists for releases from the site and adjacent area through the air pathway.

6.4.2. Groundwater Pathway

The detected chemicals of concern are characterized as having low solubilities and a preference to adsorb to soil surfaces. These physical characteristics and the clay soil and Pennsylvania Bedrock beneath the site would be expected to effectively prevent releases to groundwater.

The tendency for these site chemicals of concern to adsorb to soil can be demonstrated by a review of the investigation data. On the HEHS site, levels of detected compounds were highest in sediment. At off-site locations where both surface soil and subsurface soil samples were collected, analytical results consistently indicate that contaminant levels were highest in the surface soil. Elevated lead levels were generally identified in sediment or surface soil samples and decreased to natural ranges with depth. DDD, DDE, and DDT levels showed a similar distribution pattern.

Based on a review of local hydrogeologic conditions, groundwater migration potential is also limited by site geologic characteristics. The Kansas City Group typically consists of alternating layers of shale and limestone, with an occasional sandstone. Vertical groundwater movement is inhibited by low permeability shale layers beneath the site. Groundwater movement is expected to be primarily horizontal, along higher permeability limestone and sandstone units and bedding planes. Groundwater flow from the site is expected to surface along the rock bluff located a short distance downhill of the site. Based on contaminant and geologic characteristics, significant contaminant migration from the area through groundwater would be unlikely.

6.4.3. Surface Water Pathway

Direct chemical releases to the surface water pathway were prevented by the removal of wastes from the HEHS in January 1994. Soluble hazardous substance release potential is minimized by the low solubility of the chemicals of concern. High hazardous substance levels detected in sediment from the HEHS drainage trench indicates that accidental on-site releases may have occurred in the past. However, soil sampling results do not indicate that significant releases from the HEHS have occurred. Surface contamination largely appeared to be localized to the immediate vicinity of the HEHS.

Releases to surface water may also have been possible by erosion of impacted soil. The highest levels of hazardous substances were detected in sediment samples obtained from the HEHS drainage trench and storm water drainage structures. Based on the occurrence of the highest hazardous substance levels in these sediment samples and the preference of observed chemicals to adsorb to soil, hazardous substance migration through erosion of impacted soil is the release pathway most likely to be present at this property.

The potential for erosion releases is minimized by the small slope of the HEHS drainage trench and the thick grass and brush cover which limit surface water flow velocity downgradient of the site. Surface soil samples obtained downgradient of the HEHS contained generally low levels of site-related chemicals. As a result, this data does not indicate that significant hazardous substance migration from the site in surface water has occurred.

The presence of lead, pesticides, and petroleum-related VOCs in upgradient surface soil and storm sewer sediment suggests that the presence of detected hazardous substances partially resulted from the past use of the property as a farm and would not be related to the temporary storage of wastes at the HEHS. A hydraulic connection between the storm sewer system and the HEHS has not been identified. As a result, identified hazardous substance levels in the storm sewer appear to be related more to past property uses than to the management of wastes on the HEHS.

6.5 EXPOSURE POTENTIAL

Based on the comparison of site analytical data to MDOH Any-Use levels or Region III risk-based concentrations, the levels of lead, DDD, DDE, and DDT in sediment from the drainage trench and drainage structures would pose exposure concerns if repeated exposures to sediment with the detected levels were possible.

Exposure potential is currently limited by access controls at the property and the location of the contaminated sediment within a storm sewer drainage structure and the fenced HEHS. The remoteness of the property and the existing access controls appear to have effectively prevented exposure concerns at the property.

Future release potential for the site has been reduced by removal of the wastes formerly stored on the property. Future exposure and release concerns are now limited to the small areas of contaminated sediment identified on the property. These sediment collection points have elevated levels of property-related hazardous substances and reflect worst-case conditions on the property. Future exposure risks are limited by the small areal extent of the detected elevated hazardous substance levels and the access controls at the property and site. Existing exposures to human health or the environment have not been identified.

* * * * *

7.0 SUMMARY AND CONCLUSIONS

The property which surrounds the HEHS has been used for agricultural and office purposes. The HEHS was used in the past for temporary waste storage. The purpose of this investigation was to evaluate whether past unintentional releases from the HEHS impacted the area's soil or water. The investigation consisted of the collection of soil and surface water samples from the HEHS and surrounding areas. Site sampling was completed in accordance with work plans approved by the MDNR.

This SC was performed to determine the nature and extent of hazardous substances related to past accidental releases of materials stored at the HEHS. Sampling of soil, sediment, and surface water was performed in areas most likely to be impacted by unintentional releases from the HEHS. Soil samples were collected from beneath the concrete pad on which waste materials were stored, shallow subsurface areas immediately surrounding the HEHS, and surface soil from downgradient drainage paths or areas adjacent to the HEHS. Sediment samples were collected from a drainage trench on the concrete pad on which waste materials were stored and storm water drainage structures. Water samples were collected during a storm event from the storm water drainage structures and a pool of storm water immediately north of the HEHS area on the same concrete pad. Samples collected were analyzed for a full range of possible hazardous substances, including pesticides (chlorinated, organophosphorus, and carbamate), herbicides, VOCs, SVOCs, and metals.

Observations and data from the investigation indicated that unintentional releases of waste materials within the HEHS have likely occurred in the past. Compounds detected in the HEHS drainage trench sediment and subsurface primarily included the following:

- Petroleum-related VOCs
- Dicamba
- 2,4-D
- Lead

Petroleum-related organics, and Dicamba, and 2,4-D were detected at their highest levels in drainage trench sediment Sample TS-1, from the north end of the HEHS area, and subsurface soil samples from beneath the concrete slab at CS-2, near sampling location TS-1. The sediment was observed to be blackened with an oily substance, and the subsurface soil had a noticeable, chemical odor believed to be pesticide- or herbicide-related. Levels of chemicals detected in the drainage trench sediment exceeded MDOH Any-Use levels; however, levels detected in subsurface soil samples from beneath the concrete pad were below these health-based standards.

An evaluation of hazardous substance levels and health-based Any-Use levels indicates that principal chemicals of concern detected on the property are DDD, DDE, DDT, and lead. Although the site is not expected to be the primary source of these compounds, they were identified as chemicals of concern due to levels and frequencies of detection during the HEHS and off-site investigation. The presence of these compounds in upgradient surface soil locations indicates that storage of waste materials at the HEHS would not be the only possible source of these hazardous substances. Lead has many uses and is a common contaminant in urban areas. DDD, DDE, and DDT are likely residuals from past agricultural activities on the property.

Lead was detected at the highest levels in the HEHS drainage trench; however, it was also found at elevated levels in an upgradient surface soil sample. Based on the observed distribution, accidental lead releases in the HEHS may have occurred; however, off-site releases of lead from the HEHS do not appear to have been significant. Other property uses or urban contributions also appear to be a source of lead in the area's surface soil.

DDD, DDE, and DDT were also detected in the HEHS; however, the highest DDT surface soil level was detected at an upgradient sampling location. Based on the distribution of DDD, DDE, and DDT compounds on the property, the HEHS is not considered the principal source of these compounds. The DDD, DDE, and DDT appeared to be residuals from past agricultural use of the property and not related to temporary waste storage at the HEHS.

High levels of some hazardous substances were detected in the storm water drainage structure sediment. Levels detected in storm water in these structures were low, suggesting that off-site releases from the drainage structures are not significant. The source of hazardous substances in the drainage structures is currently not believed to be the HEHS. A hydraulic connection between the HEHS and the drainage system has not been found. With the exception of 2,4-D, residuals detected in the drainage structures were also detected at other off-site sampling locations.

Migration of hazardous substances accidently released at the HEHS was not confirmed to be a significant concern. Surface and subsurface soil samples collected from off-site locations adjacent to an stained soil area within the HEHS had significantly lower levels of hazardous substances, indicating that chemical mobility in this setting was low. Analytical results for surface soil samples obtained from potential downgradient surface water drainage paths did not appear to be impacted by site conditions. Based on this data, the extent of site-related chemicals appeared to be limited to the immediate site area.

The potential for migration of chemicals of concern identified for the property (lead, DDD, DDE, and DDT) also appeared to be low. DDD, DDE, and DDT each have extremely low solubilities and a high tendency to adsorb to soil. Based on these physical characteristics, leaching of these compounds to surface water is not expected.

Similarly, these compounds have a low potential to migrate in the subsurface. DDD, DDE, and DDT were primarily detected in surface soil samples obtained from the upper 6 inches of soil. These compounds were generally not detected in subsurface soil samples obtained from the same locations. The low occurrences of these compounds at depths of 1.5 to 3.0 feet supports conclusions regarding the low mobility of these compounds in the subsurface environment.

Lead is also characterized by a low solubility and high potential to adsorb to soil. Its potential for migration through surface water and the subsurface is also low.

The chemicals of concern could potentially migrate off the site with eroding soil; however, the extensive vegetation in the area greatly reduces erosion potential. Storm water samples obtained during the investigation contained low levels of hazardous substances. Investigation data indicated that the hazardous substances detected in storm water samples are not necessarily related to past temporary waste storage activities at the HEHS.

In summary, the site investigation indicated that unintentional releases of small quantities of petroleum products and herbicides likely occurred at the HEHS in the past; however, the extent of chemical residuals related to the releases appears to be limited to the sediment and shallow subsurface soil on and beneath the HEHS. Detected levels of hazardous substances in the HEHS sediment exceeded MDOH Any-Use levels; however, subsurface soil chemical levels were consistently within these health-based standards. While accidental off-site releases may have occurred in the past, other sources of these hazardous substances appear to contributed to the detected levels at off-site locations. The relative levels detected on and off the site, coupled with the upgradient detection of elevated hazardous substance levels suggests that sources other than the HEHS may be a significant source of the detected off-site hazardous substance levels. Based on investigation data, the limited site access, and the remote location of the facility, past operations at the HEHS have not caused existing exposures to human health or the environment.

Past operations on the property and other urban contributions are believed to have created elevated levels of DDD, DDE, DDT, and lead in the shallow surface soil. These hazardous substances were also detected in drainage structure sediment at elevated levels. The presence of these hazardous substances at levels exceeding health-based standards will limit future uses of the property; however, considering the remote property location, an existing exposure to human health or the environment has not been identified.

* * * * *

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APPENDIX A
Field Technical Memorandum

FIELD TECHNICAL MEMORANDUM

Field work for the Site Characterization (SC) at the City of Kansas City, Missouri, Health Emergency Hazmat Site (HEHS), was performed from March 29 through April 1, 1994, and on April 11, 1994. All work was performed in accordance with procedures presented in the Missouri Department of Natural Resources (MDNR) approved work plan. The locations, numbers, and types of samples collected generally followed those proposed in the work plans, but were modified based on field observations and discussions with the MDNR representative present during sampling activities. Sample locations and rationale are discussed in this memorandum.

Subsurface Soil Samples From Beneath the Concrete Slab

Five 5-inch diameter holes were cored through the concrete slab which underlies the HEHS compound and the area immediately north of the HEHS. The coring was performed by Kansas City Coring and Cutting Company. Core hole locations were placed where cracks in the concrete met near the trench in order to sample soil most likely impacted by infiltration of storm water through the concrete slab.

Subsurface soil samples were collected from beneath each core hole. These samples were labeled CS-1 through CS-5, numbering sequentially from north to south along the slab. Soil samples were collected using the JMC subsoil probe from depths of zero to 3 feet below the ground surface (bgs) at each location except CS-2, where samples were collected to a depth of 9 feet. Sample bottles collected from each hole included a 2-ounce sample for volatile organic compound (VOC) analysis; two 4-ounce samples for pH, metals, semivolatile organic compound (SVOC), chlorinated pesticide, chlorinated herbicide, and organophosphorus pesticide analyses (one from the top 1.5 feet and one from the bottom 1.5 feet of each hole); and one 8-ounce sample for carbamate pesticide analysis. The following samples were collected:

- CS-1 was collected from below the slab, north of the asphalt curb at the north end of the HEHS toward the western portion of the slab where the concrete was heavily stained black. The soil was

light brown, stiff clay. Evidence of hazardous substances was not detected with the photoionization detector (PID) or visually. An 8-ounce split of this sample was collected and given to Ms. Kathy Flippen, the MDNR representative on the site on March 29, 1994.

- CS-2 was collected from below the concrete south of the asphalt curb, 6 inches west of the trench where several cracks in the concrete converged. The soil was light brown, plastic clay and exhibited a strong pesticide odor. Soil from the surface of the sample produced PID readings of 300 parts per million (ppm) and soil from a depth of 3 feet produced readings of 200 ppm. An 8-ounce split of this sample was collected for MDNR.

  This soil probe was initially only extended to a 3 feet depth, but was later extended to a depth of 9 feet during the field activities. Soil collected at this location was a light brown, stiff clay which exhibited pesticide/herbicide-like odor and organic vapor PID readings to the full 9 foot depth. PID readings were 100 ppm at 9 feet bgs. Soil samples were collected from the entire length of soil core at CS-2. Three 2-ounce VOC samples, four 4-ounce samples, and one 8-ounce sample were collected for analysis.

- CS-3 was collected from below the concrete surface, near the trench, in line with the southern edge of the concrete block shelter within the HEHS. The soil was light brown clay to 8 inches bgs and the remainder was medium grey clay. PID readings were 1 to 2 ppm.

- CS-4 was collected from below the concrete surface near the center of the area between the wooden building and concrete brick shelter. The soil was stiff, medium grey clay. PID readings were 1 to 2 ppm. An 8-ounce split of this sample was collected for MDNR.

- CS-5 was collected from below the concrete surface at the south end of the HEHS. Evidence of hazardous substances was not detected with the PID or visually. The soil was stiff, medium grey clay at the surface, followed by deeper layers of gravel, sand, and light brown clay. An 8-ounce split of this sample was collected for the MDNR.

Soil collected from CS-1, CS-2, CS-3, CS-4, and CS-5 was generally plastic to stiff clay. The clay at CS-1 and CS-2 was light brown, CS-3 and CS-4 was grey, and CS-5 was grey and brown, with small bits of gravel and sand. The grey to olive-grey clay, gravel, and sand materials in CS-3, CS-4, and CS-5 were significantly different than soils seen elsewhere on the site (all stiff, light brown clay), indicating that a layer of fill may be located immediately under the southern portion of the HEHS concrete slab.

Trench Sediment Samples

Five composite samples were collected from the sediment at the bottom of the drainage trench along the eastern edge of the HEHS concrete slab. These samples were labeled TS-1, TS-2, TS-3, TS-5, and TS-6 (TS-4 was a duplicate of TS-2). For each sediment sample, a clean, stainless steel scoop was used to collect three to five aliquots of sediment, which were mixed using the scoop in a clean, stainless steel bowl. Each composite sample was then placed into sample bottles, one 4-ounce bottle to be analyzed for pH, metals, SVOCs, chlorinated pesticides, chlorinated herbicides, and organophosphorus pesticides, one 8-ounce bottle to be analyzed for carbamate pesticides and a 2-once bottle to be analyzed for VOCs. The following samples were collected:

- TS-1 was collected from the trench, approximately 15 to 20 feet south of the northern HEHS fence and immediately east of CS-2. The sediment in the trench at this location was blackened and had a strong, pesticide odor. This sample was collected to identify the material which had stained sediment in this section of the trench and produced the pesticide odor. In addition, a composite sample of sediment from this area and the top portion of CS-2 was

collected in an 8-ounce container for analysis for dioxin compounds.

- The sediment sample from locations TS-2 and TS-4 was collected from the trench near the northern fence of the HEHS and downgradient (north) of a asphalt curb approximately 3 to 4 inches high, which extended west to east across the entire width of the HEHS area, about 10 feet south of the fence. This curb was located between sampling points TS-1 and TS-2. The sediment at TS-2 was light brown sandy material. This sample was collected to determine the extent to which the black, stained material migrated north past the asphalt curb.

- Sediment sample TS-3 was collected in several aliquots along an approximately 20-foot section of the trench immediately east of the northern edge of the wooden building in the HEHS. This sediment was granular, red material, not sand or decaying organic matter as at the previous two locations.

- Sediment sample TS-5 was collected in several aliquots along a 20-foot length of trench in the southern portion of the HEHS. This sediment was sandy, organic material overgrown with vegetation. It was collected to identify materials potentially released by containers stored in the southern portion of the facility enclosure.

- Sediment sample TS-6 was collected in several aliquots along a 20-foot interval of the trench, north of the HEHS fence. This sediment was sandy, organic material overgrown with vegetation. It was collected to identify compounds which could have been transported off the HEHS property by surface water flow in the trench. Due to the thin, sediment layer present at this location, a sediment sample was not collected for VOC analysis. Based on visual observations, VOCs would not be expected to be present.

Surface Soil Sampling

A total of six surface soil samples were collected from locations across the property. These samples were designated SS-1 through SS-6. For each surface soil sample, a clean, stainless steel scoop was used to collect five aliquots of soil, which were mixed using the scoop in a clean, stainless steel bowl. The five aliquots were collected from an approximately 10-foot square grid area. Each composite sample was then placed into sample bottles, one 4-ounce bottle to be analyzed for pH, metals, SVOCs, chlorinated pesticides, chlorinated herbicides, and organophosphorus pesticides, and one 8-ounce bottle to be analyzed for carbamate pesticides. The following samples were collected:

- SS-1, a upgradient soil sample, was collected from surface soil in an area west of and upgradient of the HEHS. The soil was dark brown topsoil.

- SS-2 was collected from surface soil downgradient of the HEHS. The sample location was immediately east of the HEHS concrete slab and trench, across from the southern end of the wooden building in the HEHS compound. The soil was dark brown topsoil. It was collected to determine if hazardous substances had been released over the east wall of the trench.

- SS-3 was collected from surface soil downgradient of the HEHS. The sample location was immediately east of the HEHS concrete slab and trench at the northern end of the HEHS compound, immediately across the fence from the area where drums were apparently stored on the short, concrete ledge east of the trench. The soil was dark brown topsoil. It was collected to determine if hazardous substances had been released over the east wall of the trench.

- SS-4 was collected along the west wall of the kennel buildings at the bottom of the hill, east of the HEHS. The sample location was immediately east of CS-2 (sample collected beneath the concrete surface). The soil was dark brown to black topsoil. It was

collected to determine if hazardous substances had been washed down the hill by surface water flow.

- SS-5 was collected at the northwest corner of the kennel buildings at the bottom of the hill, east of the HEHS. The five aliquots were collected from an approximate 10-foot square grid area. The soil was dark brown to black topsoil. It was collected to determine if hazardous substances had been washed down the hill by surface water flow.

- SS-6 was collected from surface soil downgradient of the HEHS. The sample location was immediately east of the HEHS concrete slab and trench across from the northern end of the wooden building in the HEHS compound, immediately across the fence. The five aliquots were collected from an approximate 10-foot square grid area. The soil was dark brown topsoil. It was collected to determine if hazardous substances had been released over the east wall of the trench.

Subsurface Soil Samples

Subsurface soil samples were collected from seven off-site locations. These samples were collected with the JMC subsoil soil probe using the same procedures as for the collection of the samples from beneath the HEHS concrete slab. Sample bottles collected from each hole included a 2-ounce sample for VOC analysis; two 4-ounce samples for pH, metals, SVOCs, chlorinated pesticides, chlorinated herbicides, and organophosphorus pesticides analyses (one from the top 1.5 feet and one from the bottom 1.5 feet of each hole); and one 8-ounce sample for carbamate pesticides analysis. The following samples were collected:

- SB-1, a upgradient soil sample, was collected from the same area as SS-1, west and upgradient of the HEHS. The top 6 inches of the sample consisted of black topsoil, and the remainder of the sample was light brown clay.

- CS-6 was collected near the south end of the HEHS, from a location east of and across the fence from CS-5. The soil consisted of light brown clay covered by approximately 18 inches of black topsoil. This sample location was selected to determine if subsurface hazardous substance migration from the site and to the east had occurred.

- CS-7 was collected across the fence from the north end of the wooden building. The light brown, clay soil contained small rocks and was covered by approximately 10 inches of black topsoil. This sample was collected to determine if hazardous substances had seeped through the trench bottom and migrated east.

- CS-8 was collected immediately across the fence from CS-2 (due to its proximity to CS-2, CS-8 was extended to a depth of 6 feet). The light brown, clay soil was covered by approximately 18 inches of black topsoil. This sample was collected across from CS-2 and extended to a depth of 6 feet to evaluate the horizontal mobility of the material causing the pesticide odor in CS-2.

- CS-9 was collected from soil at the bottom of the hill, east and slightly north of CS-2 along the west foundation of the kennels. The light brown, clay soil contained occasional small rocks and was covered by approximately 10 inches of topsoil. It was collected to evaluate the horizontal and erosional mobility of hazardous substances.

- CS-10 was collected just east of the trench, approximately 15 feet north of the fenced HEHS area. The light brown, clay soil contained occasional small rocks and was covered by approximately 10 inches of topsoil. It was collected to evaluate the horizontal mobility of potential hazardous substances.

- CS-11 was collected from a low area approximately 20 feet northwest of the northwest corner of the kennels. The light

brown, clay soil contained occasional small rocks and was covered by approximately 10 to 12 inches of topsoil. It was collected to determine if hazardous substances had migrated off the site and infiltrated into the subsurface.

Drainage Structure Sediment Sampling

Composite samples of sediment were collected at the bottom of two drainage structures near the HEHS. For each sediment sample, a clean, stainless steel scoop was used to collect aliquots of soil from the bottom of the drainage structure. The aliquots were mixed using the scoop in a clean, stainless steel bowl. Each composite sample was then placed into sample bottles, one 2-ounce bottle for VOC analysis, one 4-ounce bottle to be analyzed for pH, metals, SVOCs, chlorinated pesticides, chlorinated herbicides, and organophosphorus pesticides, and one 8-ounce bottle to be analyzed for carbamate pesticide. The following samples were collected:

- DSS-1 was collected from sediment at the bottom of the drainage structure southeast of the HEHS. The sediment was light brown in color and appeared to consist primarily of clay and fine silt or sand. This sample was collected to determine if hazardous substances had entered this drainage structure.

- DSS-2 was collected from sediment at the bottom of the drainage structure northwest of the site. The light brown sediment in Sample DSS-2 had a slight, chemical odor. This sample was collected to determine if hazardous substances had entered a drainage system connected to and upgradient of this structure.

Storm Water Samples

Storm water samples were collected during a period of precipitation. The areas from which these samples were collected, the two drainage structures and the north end of the HEHS slab, are usually dry. During the precipitation, water collected in the bottom of each of the drainage structure and pooled at the north end of the slab. The following samples were collected:

- CW-1 was collected from water at the bottom of the drainage structure southeast of the HEHS. Water flow into the structure was low and from a influent pipe located on the southern part of the structure. It flowed slowly out to the north. This water was very turbid.

- CW-2 was collected from water at the bottom of the drainage structure northwest of the HEHS. The water entered the structure at a medium flow rate from pipes located on the southeast and southwest walls. It exited through piping located on the northwest structure wall. Water leaving from the structure was only slightly turbid and flowed rapidly.

- SW-1 was collected from a pool of water at the northern end of the HEHS concrete slab. The sample was collected from the area outside of the fence. The 3 to 4-inch deep pool of water infiltrated into the ground through cracks in the concrete pad within 6 hours after the precipitation ended.

Each storm water sample was analyzed for VOCs, metals, SVOCs, chlorinated pesticides, chlorinated herbicides, organophosphorus pesticides, and carbamate pesticides.

* * * * *

TETRA TECH

June 7, 2013

Mr. Todd Davis
Site Assessment Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

Subject: Phase II Targeted Brownfields Assessment, Rev. 01
KCMO Municipal Farms
Municipal Correctional Institute at 8100 Ozark Road in Kansas City, Missouri
EPA Region 7, START 3, Contract No. EP-S7-06-01, Task Order No. 0002.015.022
Task Monitor: Todd Davis, Site Assessment Manager

Dear Mr. Davis:

Tetra Tech, Inc. (Tetra Tech) is submitting the revised Phase II Targeted Brownfields Assessment (TBA) report regarding the former Municipal Correctional Institute in Kansas City, Missouri. The TBA includes an investigation to confirm or eliminate recognized environmental conditions specified in the Phase I TBA report prepared by Tetra Tech in January 2013.

If you have any questions or comments regarding this submittal, please call the project manager at (816) 412-1788.

Sincerely,

David Zimmerman, CHMM
START Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Roy Crossland, START Project Officer (cover letter only)

415 Oak Street, Kansas City, MO 64106
Tel 816.412.1741 Fax 816.410.1748 www.tetratech.com

PHASE II TARGETED BROWNFIELDS ASSESSMENT REPORT, REV. 01

MUNICIPAL CORRECTIONAL INSTITUTE
8100 OZARK ROAD, KANSAS CITY, MISSOURI

Superfund Technical Assessment and Response Team (START) 3

Contract No. EP-S7-06-01, Task Order No. 0002.015.022

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

June 7, 2013

Prepared By:

Tetra Tech, Inc.
415 Oak Street
Kansas City, Missouri 64106
(816) 412-1741

CONTENTS

CONTENTS (Continued)

APPENDICES

EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the approximately 21.8-acre former Municipal Correctional Institute (MCI) at 8100 Ozark Road in Kansas City, Jackson County, Missouri (subject property). The City of Kansas City, Missouri (City) requested assessment assistance under the TBA program from EPA Region 7 for assessment prior to redevelopment of the former MCI, which is a part of the Municipal Farms redevelopment area. The Conceptual Land Use Plan (CLUP) within the 2012 Municipal Farm Sustainable Reuse Plan indicates the former MCI is most suited for mixed use residential future development (City 2012b). START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

Tetra Tech EM Inc. conducted a Phase I TBA of the subject property in November 2012, identifying the following environmental concerns and recognized environmental conditions (REC) associated with the subject property (Tetra Tech EM Inc. 2013):

- The subject property was listed in the environmental response tracking database SPILLS, for an incident reported in June 1999. Limited information is provided in the environmental database. A concerned citizen submitted a complaint to the State of Missouri that a sewer pipe from the former MCI facility routinely broke, resulting in a discharge of sewage to Round Grove Creek. Due to the limited information available, the alleged discharge of wastewater to the Round Grove Creek from historical operations of the MCI is considered an environmental concern to the subject property.

- The former Men's Reformatory structure and MCI appear on the subject property on the aerial photographs. The Men's Reformatory and MCI both housed a tank that contained a petroleum product according to the fire insurance maps and the environmental database search. The Men's Reformatory and MCI likely used pesticides and other chemicals during grounds keeping activities. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the subject property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. The possibility that historical releases of petroleum products occurred from either the Men's Reformatory or MCI poses a REC to the subject property.

- Review of city directories identified the following facilities at the subject property address of 8100 Ozark Road: the MCI, Women's Reformatory, and Kansas City Municipal Farm. It is unclear whether the subject property was included in the Municipal Farm land, and if so, what was applied to the land. The MCI housed a tank that contained a petroleum product according to the

environmental database search. The MCI, Women's Reformatory, and Kansas City Municipal Farm likely used pesticides and other chemicals during groundskeeping activities. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the subject property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. The possibility that historical releases of petroleum products occurred during use of the subject property poses a REC to the subject property.

- Review of the Fire Insurance Maps identified the following facilities on the subject property: Men's Reformatory, pig sties, a feed building, stable and garage, canning factory, dwellings, poultry houses, and a hot bed. The Men's Reformatory structure did contain a 30-gallon tank of some sort of oil enclosed in concrete. Pesticides and other chemicals likely were used during grounds keeping activities near the pig sties, feed building, stable and garage, and canning factory. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the subject property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. The possibility of historical releases of petroleum products from the Men's Reformatory tank poses a REC to the subject property.

- According to Tetra Tech's March 2011Phase I Environmental Site Assessment (ESA) Rev. 01, (Tetra Tech EM Inc. 2011a) prepared for the Municipal Garden Farm Community Garden, the subject property had been developed as an orchard based on the review of a 1952 aerial photograph. This aerial photograph was not reviewed as part of the November 2012 Phase I TBA.

- According to Tetra Tech's April 2011 Phase II Environmental Site Assessment, for the Municipal Garden Farm Community Garden in April , the soil did not appear to have been affected by historical activities within the area where the community garden was proposed or within adjacent properties (Tetra Tech EM Inc. 2011b). Pesticides and/or chemical fertilizers are commonly used on orchards. Because sampling previously conducted as part of the Phase II ESA of the municipal garden was limited, the possibility of historical releases of hazardous materials or hazardous waste at the subject property poses a REC to the subject property.

The Municipal Farm Sustainable Reuse Plan, prepared by the City and several stakeholders, provides a path to revitalize the city-owned property at Municipal Farm. The sustainable reuse plan recommends a preliminary environmental assessment of the former agricultural use sub-areas, former canning factory sub-area, former city workhouse, and former MCI facility. The plan recommends additional historical research and interviews with local experts related to the former Municipal Farm activities, specifically regarding the former canning factory sub-area, areas of maintenance and storage, feed house locations, former orchard sub-area, and two correctional institutes. The plan also recommends additional investigations of the former agricultural use sub-area, including sampling of the sediment and drainage relief point downgradient of most of the area.

To summarize, the possibility of releases of past petroleum product from the Men's Reformatory and MCI tanks poses RECs to the subject property. In addition, the possibility of past hazardous material or hazardous waste releases from neighboring commercial and industrial facilities poses a REC to the subject property.

The purpose of this Phase II TBA was to determine if historical activities at the subject property had impacted soils and groundwater at and around RECs. During this Phase II TBA at the subject property, soil samples were collected to determine environmental impacts. Analytical results were compared to EPA Regional Screening Levels (RSL) for residential soil and industrial soil, and to Missouri Risk-Based Corrective Action (MRBCA) Tier 1 target levels for residential and non-residential land use for clayey soil types.

Findings and recommendations are as follows:

Based on sampling during this Phase II TBA, arsenic and several semivolatile organic compounds (SVOC), specifically polycyclic aromatic hydrocarbons (PAH), are present in soils at the subject property. However, the arsenic is well below the mean background concentration for Jackson County, Missouri (U.S. Geological Survey [USGS] 2012a). Although benzo(a)pyrene was detected at concentrations above all benchmark values, it is a common compound found in urban environments. Other sources of this PAH are vehicle exhaust and pavement sealcoat (potentially from the road running along the subject property boundary and the parking lot used for municipal garden activity and former MCI facility); burning of vegetation (a likely possibility at this undeveloped site with large amounts of vegetation); and fertilization with burned material, such as ashes (possibly used at the municipal garden). In addition, the single surface soil sample containing benzo(a)pyrene at a concentration above all benchmarks (sample SS-5) was collected from a drainage area on the subject property, at which more widespread, diluted levels of this contaminant could be concentrating. As a result, Tetra Tech recommends no further sampling at the subject property.

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the approximately 21.8-acre former Municipal Correctional Institute (MCI) at 8100 Ozark Road in Kansas City, Jackson County, Missouri (subject property). The City of Kansas City, Missouri (City) requested assessment assistance under the TBA program from EPA Region 7 for assessment prior to redevelopment of the former MCI. The Conceptual Land Use Plan (CLUP) within the 2012 Municipal Farm Sustainable Reuse Plan indicates the former MCI is most suited for mixed use residential future development (City 2012b). START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

1.1 PURPOSE

The purpose of this Phase II TBA was to determine if historical activities at the subject property had impacted soil and groundwater at and around recognized environmental conditions (REC) specified during a Phase I TBA of the subject property Tetra Tech EM Inc. conducted in November 2012 (Tetra Tech EM Inc. 2013). The subject property is currently vacant except for some improved roadways and a parking lot associated with the previous development, a radio tower, and a municipal garden. Historically, the former MCI and Men's Reformatory were present here. During this Phase II TBA at the subject property, soil samples were collected to confirm or eliminate RECs. Analytical results were compared to EPA Regional Screening Levels (RSL) for residential soil and industrial soil, and to Missouri Risk-Based Corrective Action (MRBCA) target levels and Tier 1 target levels for residential land use for clayey soil types.

1.2 SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions for the TBA.

2.0 BACKGROUND AND SITE HISTORY

This section provides a brief description of the site: the physical setting, including geology, hydrogeology, and hydrology; site history and land use; adjacent land use; and a summary of previous assessments.

2.1 SITE DESCRIPTION AND FEATURES

The subject property is an approximately 21.8-acre tract of land at 8700 Ozark Road in Kansas City, Jackson County, Missouri (see Figure 1, Appendix A). According to the City of Kansas City, Missouri KC Mapper website (http://gisweb.kcmo.org/kcmap/viewer.htm), the legal description for the tract of land that encompasses the subject property is "Sec 30-49-32 NW ¼, all that pt of NW ¼ ly E of Eastern Avenue and North of Ozark Road and swly of Raytown Road (ex W 180 thof)" (City 2012a). The subject property is depicted on the U.S. Geological Survey (USGS) 7.5 minute series Independence, Missouri, topographic quadrangle map (USGS 1996) in northwest ¼, Section 30, Township 49 north, Range 32 west (Figure 1, Appendix A). According to Google Earth 2012, the coordinates at the approximate center of the property are 39° 2' 24.88" north latitude and 94° 29' 26.08" west longitude (Google Earth 2012).

The subject property is currently vacant land except for some improved roadways and a parking lot associated with the previous development, a radio tower, and a municipal garden.

2.2 PHYSICAL SETTING

The subject property is part of a lightly developed area with an adjoining residential neighborhood in Kansas City, Missouri. The subject property is bounded north by a vacant wooded land, an animal shelter, Round Grove Creek former City landfill, and Raytown Road beyond; northeast by vacant land with woods beyond; east by trees and Ozark Road beyond; south by Ozark Road with residential development beyond; west by vacant wooded land with the Army National Guard Armory beyond; and northwest by woods, the former Municipal Farms, and City of Kansas City Missouri Health Emergency Hazmat Site (HEHS), with the Kansas City Police Department Helicopter and Canine Unit beyond (see Figure 2, Appendix A).

According to the U.S. Department of Agriculture's (USDA) 1984 Soil Survey of Jackson County, Missouri, Jackson County is within the west-central part of Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area of the Central Feed Grains and Livestock Region of the United States. The Missouri River is the northern boundary of the county. The northern part of the county is the nearly level flood plain of the Missouri River. Adjacent to the flood plain and south are moderately sloping to steep, loess-covered bluffs and hills. The rest of the county consists of gently sloping to moderately sloping uplands

and flood plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their tributaries (U.S. Department of Agriculture [USDA] 1984).

Elevations in Jackson County range from 1,105 feet above mean sea level (amsl) on the divide in the south-central part of the county to 690 feet amsl at normal water level on the Missouri River at the county line on the eastern side of the county (USDA 1984). Based on a review of the USGS 7.5-minute series Independence, Missouri, topographic quadrangle map (USGS 1996), the subject property ranges from approximately 886 to 920 feet amsl. The subject property appears flat to gently sloping. Area topography slopes north and northeast toward Round Grove Creek.

2.2.1 Geologic Setting

According to the USDA's WebSoil Survey, located at http://websoilsurvey.nrcs.usda.gov/app/, soils on the subject property consist of Knox-Urban Land complex and Knox silty clay loam. The Knox Urban Land complex has 5- to 9-percent slopes. The typical soil profile is 0 to 6 inches silt loam, 6 to 46 inches silty clay loam, and 46 to 80 inches silt loam. The Knox silty clay loam has 9- to 14-percent slopes that are severely eroded. The typical soil profile is 0 to 4 inches silty clay loam, 4 to 54 inches silty clay loam, and 54 to 60 inches silt loam (USDA 2011b). Based on the ALS Environmental (ALS) Particle Size Distribution report (Appendix D) and the USDA Textural Classification Chart found at http://soils.usda.gov/technical/aids/investigations/texture/, (USDA 2011a), soil at the subject property is classified as Soil Type 3 (Clayey).

According to a 1917 geological map of Kansas City, Missouri from the Missouri Bureau of Geology and Mines, the upper bedrock formation in the vicinity of the subject property consists of the middle Kansas City Group, Missourian Series, Pennsylvania System (Missouri Bureau of Geology and Mines 1917). According to Missouri Department of Natural Resource's (MDNR) 1997 Water Resources Report Number 46, shales of the Pleasanton Group lay underneath the Kansas City Group. Underlying the Pleasanton Group are predominantly shales of the Marmaton and Cherokee Groups of the Desmoinesian Series (Missouri Department of Natural Resources [MDNR] 1997). According to MDNR Engineering Geology Report Number 6, entitled Geologic Aspects of Hazardous-Waste Isolation in Missouri, maximum thicknesses of these groups are as follows: Kansas City Group, 135 feet; Pleasanton Group, 150 feet; and Marmaton Group, 190 feet (Stohr, St. Ivany, and Williams 1981).

2.2.2 Hydrogeology

Local Pennsylvanian-age bedrock units generally yield low quantities of marginal quality groundwater high in dissolved solids—particularly chlorides, iron, and bicarbonates (Stohr, St. Ivany, and Williams 1981). Water for the subject property is supplied by the City of Kansas City, Missouri, Water Department, and is obtained from the Missouri River and groundwater sources near the river.

Mississippian and Pennsylvania formations form the bedrock aquifers in this region. The Pennsylvanian aquifers are characterized by water table conditions; however, because of the geologic structure in the region, artesian conditions may exist locally in shallow wells. Artesian conditions exist in deeper wells that were drilled to Ordovician bedrock. Water yields are low—1 to 15 gallons per minute (gpm)—and the water is high in chlorides, sodium, iron, bicarbonates, and other dissolved solids. Water yields increase in deeper wells, but quality decreases significantly with depth. Water table depths in the alluvium and terraces of the flood plains in the region are 20 to 30 feet (Stohr, St. Ivany, and Williams 1981).

Mississippian and older bedrock aquifers exhibit leaky artesian conditions; however, water table conditions exist near the border of the Ozark Plateaus. Water yields vary from 25 to a few hundred gpm. Water quality is the highest near the eastern border of the Osage Plains and decreases toward the northwest, with increasing concentrations of chlorides, sodium, and other dissolved solids. Recharge is by regional water movement from the Ozark Plateaus and by limited infiltration of precipitation (Stohr, St. Ivany, and Williams 1981).

Numerous drainageways dissect the bedrock in this area and flow into the Blue River. The site is on a hilltop that slopes downward to the north-northeast, and shallow groundwater likely perches seasonally at the top of bedrock. Transient water also may be encountered within fracture zones and along bedding planes, and frequently discharges at bedrock outcrops.

The 2012 EDR Radius Map™ with Geocheck® Report compiled by Environmental Data Resources, Inc. (EDR), a START subcontractor, identified one federal USGS water well within 1 mile of the subject property by searching state and USGS database listings; no other water wells were listed in any federal or state database. The reported total depth of the well is 36 feet below ground surface (bgs). Static water levels were not provided for the wells, and EDR extracted no data on groundwater flow and velocity (EDR 2012). In the absence of site-specific data or other indicators, the direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, shallow groundwater flow is inferred to the north, in the direction of the topographic gradient and surface water flow.

2.2.3 Hydrology

According to USGS Water Resources, (http://water.usgs.gov/lookup/getwatershed?10300101) the subject property is in the Lower Missouri - Crooked watershed (USGS Cataloging Unit 10300101) (USGS 2012b). Surface water on the subject property appears to follow surface topography and either infiltrates the ground or flows north about 0.25 mile toward Round Grove Creek. Round Grove Creek flows west-northwest about 1.2 miles where it discharges to the Blue River. The Blue River flows north-northeast for about 6.5 miles where it discharges to the Missouri River. Runoff from the subject property generally follows regional topography to the north toward Round Grove Creek.

2.3 SITE HISTORY AND LAND USE

The subject property is currently vacant land except for some improved roadways and a parking lot associated with the previous development, a radio tower, and an approximate 3-acre municipal garden. The former Men's Reformatory was north of the former MCI. According to the historical fire insurance maps, the Men's Reformatory was constructed between 1911 and 1914 (Tetra Tech EM, Inc. 2011a). The Men's Reformatory was used by the City until the 1960s and was demolished in 1991 (EAE 2012). At least one 30-gallon gasoline tank in a concrete box was on the west side of the Men's Reformatory main building (Tetra Tech EM, Inc. 2011a).

The former MCI was on 9.7 acres of land on the north side of Ozark Road. Construction of the correction institute began in 1968. It was completed and occupied in May 1971. The structures were abated for asbestos and demolished in 2011 (EAE 2012). The environmental database report indicated that a 5,000-gallon UST had been removed from the MCI in 1994. A maintenance building was reportedly present along the southern boundary of the current location of the community garden. The maintenance building reportedly stored gas, diesel, oil-based and latex paint, auto lubricants, antifreeze, paint thinner, and other miscellaneous solvents and cleaners (Tetra Tech EM Inc. 2011a).

2.4 ADJACENT PROPERTY USE

Currently, the subject property is bounded north by vacant wooded land, east by a vacant land with Ozark Road beyond, south by Ozark Road with residential development beyond, and west and northwest by woods, the former Municipal Farms, and the HEHS. A review of historical documents indicates the area surrounding the subject property has been used for a variety of residential and municipal purposes.

The possibility of past hazardous material or hazardous waste releases from neighboring commercial and industrial facilities poses a REC to the subject property.

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

A Phase I Site Characterization report (Burns & McDonnell 1994), Investigation Addendum Report and Remedial Action Plan (Burns & McDonnell 1995), Closure Plan (Burns & McDonnell 1996), and a Summary of Closure Corrective Action Sampling Results (Burns & McDonnell 1997) were prepared on behalf of the City by Burns & McDonnell Waste Consultants, Inc., regarding the HEHS. The HEHS is northwest of the subject property across a drainage ravine. In the mid-1980s, the City Health Department began to use a small, rectangular, fenced-in area that contained two structures to store household hazardous waste (HHW), school laboratory waste, and other hazardous wastes generated by City operations and hazardous materials (hazmat) cleanups. This site had not been permitted to accept or store hazardous waste. In November 1993, the City received a Notice of Violation (NOV) from the MDNR after an inspection found numerous violations. The State sought an assessment of penalties for the City's non-compliance. The State and the City agreed to settle the matter by entering into a Consent Decree. A deed restriction has also been filed for the HEHS property. Since that time, the HEHS property has been sampled, all the structures have been demolished, the contaminated soil has been excavated, and the State has approved site closure (City 2008). The subject property is not included in the deed restriction (Burns & McDonnell Waste Consultants Inc. 1999). A ravine is between the HEHS and the subject property. Because the HEHS site was remediated and the state approved closure, this site does not pose a REC to the subject property.

In May 2010, surface soil samples were collected from the subject property and field screened for Resource Conservation and Recovery Act (RCRA) metals using an x-ray fluorescence (XRF) analyzer. The sampling and analysis was performed by the Soil Chemistry Laboratory, Department of Agronomy, Kansas State University (KSU). Based on the data, KSU concluded that no significant metals concentrations had been identified inconsistent with future use as a community garden (KSU 2010), but recommended followup testing for possible pesticides such as dichlorodiphenyltrichloroethane (DDT) and dichlorodiphenyldichloroethene (DDE) (City 2010).

In March 2011, Tetra Tech prepared a Phase I Environmental Site Assessment (ESA) on behalf of the City for the Municipal Garden Farm Community Garden project, which is included in the subject property boundaries (Tetra Tech EM Inc. 2011a), followed by a Phase II ESA that included the collection of environmental samples and analysis for the pesticides recommended by KSU (Tetra Tech EM Inc. 2011b).

With the exception of arsenic, no contaminant in soil or groundwater exceeded appropriate state standards established by the Missouri voluntary cleanup program.

In November 2012, under contract to EPA Region 7, Tetra Tech conducted a Phase I TBA at the subject property, identifying the following findings, environmental concerns and RECs:

- The subject property was listed in the SPILLS database for an incident reported in June 1999. Limited information is provided in the environmental database. A concerned citizen submitted a complaint to the State of Missouri that a sewer pipe from the former MCI facility routinely broke, resulting in a discharge of sewage to Round Grove Creek. Due to the limited information available, the alleged discharge of wastewater to the Round Grove Creek from historical operations of the MCI is considered an environmental concern to the subject property.

- The former Men's Reformatory structure and MCI appear on the subject property on the aerial photographs. The Men's Reformatory and MCI both housed a tank that contained a petroleum product according to the fire insurance maps and the environmental database search. The Men's Reformatory and MCI likely used pesticides and other chemicals during grounds keeping activities. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the subject property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. The possibility that historical releases of petroleum products occurred from either the Men's Reformatory or MCI poses a REC to the subject property.

- Review of city directories identified the following facilities at the subject property address of 8100 Ozark Road: the MCI, Women's Reformatory, and Kansas City Municipal Farm. It is unclear whether the subject property was included in the Municipal Farm land, and if so, what was applied to the land. The MCI housed a tank that contained a petroleum product according to the environmental database search. The MCI, Women's Reformatory, and Kansas City Municipal Farm likely used pesticides and other chemicals during groundskeeping activities. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the subject property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural chemical mixing, large-quantity storage, or materials processing at the subject property. The possibility that historical releases of petroleum products occurred during use of the subject property poses a REC to the subject property.

- Review of the Fire Insurance Maps identified the following facilities on the subject property: Men's Reformatory, pig sties, a feed building, stable and garage, canning factory, dwellings, poultry houses, and a hot bed. The Men's Reformatory structure did contain a 30-gallon tank of some sort of oil enclosed in concrete. Pesticides and other chemicals likely were used during grounds keeping activities near the pig sties, feed building, stable and garage, and canning factory. However, normal use and application of pesticides and other chemicals generally does not trigger enforcement actions, assessments by regulatory agencies, or recommendation for further assessment of the subject property unless evidence indicates misuse, dumping, or improper storage of chemicals. No indications have been found of these types of activities or of on-site agricultural

chemical mixing, large-quantity storage, or materials processing at the subject property. The possibility of historical releases of petroleum products from the Men's Reformatory tank poses a REC to the subject property.

- According to the previous Phase I ESA by Tetra Tech EM Inc. prepared for the Municipal Garden Farm Community Garden, the subject property had been developed as an orchard based on the review of a 1952 aerial photograph. This aerial photograph was not reviewed as part of the November 2012 Phase I TBA.

- During Tetra Tech EM Inc.'s Phase II ESA of the Municipal Garden Farm Community Garden in April 2011, one groundwater and multiple soil samples were collected and analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), TPH-oil range organics (ORO), RCRA metals, and pesticides. Based on this limited sampling during the Phase II ESA at the proposed municipal garden, the soil did not appear to have been affected by historical activities within the area of the proposed community garden or within adjacent properties. Pesticides and/or chemical fertilizers are commonly used on orchards. Because sampling previously conducted as part of the Phase II ESA of the municipal garden was limited, the possibility of historical releases of hazardous materials or hazardous waste at the subject property poses a REC to the subject property.

EAE included environmental recommendations for the Municipal Farms properties in an Area-Wide Brownfields Plan (AWBP), to be used to facilitate sustainable reuse and development of the area. The AWBP includes known and potential Brownfields concerns, prior assessment and cleanup activities, background environmental studies, and results of sampling in the area. Brownfields and areas of potential concern were highlighted in the AWBP. Both the former Men's Reformatory and MCI, which are on the subject property, were discussed in the AWBP. The AWBP outlined the history of each facility and recommended a Phase I ESA of these areas as a preliminary investigation. Following the initial investigation, targeted screening or Phase II ESA sampling was recommended to confirm presence of contamination at unacceptable levels. Possibly present contaminants within these CLUP areas are primarily petroleum-related contaminants, herbicides, pesticides, rodenticides, lead, and hazardous waste chemicals based on the former uses as a correctional institution, canning factory, agricultural use, and other Municipal Farm activities (EAE 2012).

The City provided a copy of the Municipal Farm Sustainable Reuse Plan prepared in 2012 by the City and several stakeholders. The plan includes future uses for the subject property, providing a path to revitalize the city-owned property at Municipal Farm and the surrounding Eastwood Hills Neighborhood. The plan sets the stage for assessment and cleanup of known and potential Brownfields (including the subject property), restoration of the site's natural resources, and proactive, sustainable development that embraces research, innovation, and recreation. The subject property is discussed under the sections specific to CLUP areas 12 and 13. Based on the Sustainability Reuse Plan, the subject property is likely to be reused

for mixed use residential development based on its location, physiography, and relationship to the land uses on the remainder of the Municipal Farm site (City 2012b).

3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

The purposes of this Phase II TBA were to determine if historical activities at the subject property had impacted surface and subsurface soils and groundwater at and around items posing RECs.

The following sections describe the scope of the Phase II TBA, and field exploration and methods. START team members (STM) Kaitlyn Bahr and Joanna Sciegienka conducted surface soil sampling on March 16, 2013. STMs Cosmo Canacari, Danny O'Connor, and Ashley Gleason conducted belowground soil and groundwater sampling on March 22, 2013.

3.1 SCOPE OF THE ASSESSMENT

STMs conducted environmental sampling to determine if soil and groundwater had been impacted by current or historical activities at the subject property. Photographs taken to document the Phase II TBA field activities are included in Appendix B. Phase II TBA activities were recorded in a site logbook included in Appendix C. Chain-of-custody records, field sheets, analytical data packages, and a data validation report are in Appendix D. Analytical summary tables appear in Appendix E. The sampling proceeded in accordance with Tetra Tech's approved 2013 Quality Assurance Project Plan (QAPP) Rev. 01, completed under Task Order 015.022 (Tetra Tech 2013).

3.1.1 Conceptual Site Model and Sampling Plan

The proposed sampling scheme for collection of soil and groundwater samples was biased/judgmental, in accordance with the *Guidance for Performing Site Inspections under Comprehensive Environmental Response Compensation and Liability Act (CERCLA)*, Office of Solid Waste and Emergency Response (OSWER) Directive #9345.1-05, September 1992; and the *Removal Program Representative Sampling Guidance, Volume 1: Soil*, OSWER Directive 9360.4-10, November 1991. The objectives were to characterize possible historical releases to the environment in anticipation of future development of the property. Surface soil samples were collected to determine if contamination leaves the site in stormwater runoff. Attempts to sample groundwater at two locations were unsuccessful. The DPT probe used to advance the temporary well screen encountered refusal before reaching groundwater. Table E-1 summarizes samples collected during the Phase II TBA and the analyses performed. Subsurface soil sample labels include depths of collection.

3.1.2 Chemical Testing Plan

Laboratory analyses for chemical parameters were selected based on potential contaminants associated with current and historical uses of the subject property. Soil samples were submitted to ALS in Holland, Michigan, for analyses for following parameters: herbicides via EPA Method SW-846 8151; pesticides via EPA Method SW-846 8081; mercury via EPA Method SW-846 7471; RCRA metals via EPA Method SW-846 6020A; TPH-DRO, TPH-ORO, and SVOCs via EPA Method SW-846 8270; and VOCs including TPH-GRO via EPA Method SW-846 8260. Not all samples were analyzed for all parameters, as shown in Table E-1.

3.1.3 Deviations from the QAPP

Deviations from the QAPP and the rationale for these are as follows:

- START was unable to collect groundwater samples from the property because of probe refusal before encounter with groundwater.
- START collected surface soil sample SS-6 outside the subject property boundary in a drainage area to determine if concentrated contaminants in stormwater were traveling off site.

3.2 FIELD EXPLORATION AND METHODS

Field activities at the subject property occurred on March 16 and 22, 2013. The sections below summarize the soil sample collection that occurred.

3.2.1 Surface Soil Sampling

Surface soil samples were collected at six locations at the subject property during the Phase II TBA (see Appendix A, Figure 3). At each location, a composite surface soil sample (0 to 6 inches bgs) containing five aliquots was collected using disposable sampling equipment. At each sample location where VOCs and TPH-GRO were of concern, sampling was first conducted according to EPA Method 5035 guidelines for VOCs and TPH-GRO. Remaining soil (for analyses other than VOCs and TPH-GRO) was transferred to a disposable aluminum pie pan and homogenized with a disposable stainless steel spoon prior to transfer into an appropriate container.

Pertinent data, including sample locations, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at temperatures at or below 4 degrees Celsius (°C).

3.2.2 Subsurface Soil Sampling

Soil samples were collected at six boring locations (SB-1, SB-2, SB- 3, SB-4, SB-5, and SB-6) to a maximum depth of 13 feet bgs before refusal (see Appendix A, Figure 3). Each borehole was advanced using a Geoprobe™ 4-foot-long Macro-Core® sampler fitted with a disposable polyvinyl chloride (PVC) liner. Soil samples were collected in accordance with Region 7 EPA Standard Operating Procedures (SOP) 4230.07: Geoprobe™ operations, SOP 4230.03: Sampling Soil for Determinations of Volatile Organic Compounds, and SOP 4231.2012: Soil Sampling. Each 4-foot core interval was screened by a hand-held photoionization detector (PID) for volatile organics. Two samples were collected: one from the bottom 2-foot section of the soil core and one from the interval inducing the highest PID readings or showing other evidence of contamination. If no elevated PID readings or other signs of contamination were noted, the second sample was collected from a default depth of 6-8 feet bgs. Each sample for laboratory analysis included a grab sample for analysis for VOCs and TPH-GRO collected in accordance with EPA SW 846 Method 5035, and consisted of two 5-gram soil aliquots in separate 40-milliliter (mL) vials preserved with sodium bisulfate, and one 5-gram soil aliquot in a 40 mL vial preserved with methanol. After collection of the grab samples, the remaining soil from each sample interval was placed in a disposable aluminum pie pan for homogenization, and then transferred to appropriate containers. The Geoprobe™ Macro-Core® sampler was decontaminated using an alconox/water solution, followed by a fresh water rinse. Decontamination rinse water was city-supplied water from Kansas City, Missouri. Pertinent data, including analyses to be performed and sample locations, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at or below 4 °C.

3.2.3 Quality Control Sampling

One field blank and one equipment rinsate blank prepared with deionized (DI) water were submitted for the following analyses: VOCs, TPH-GRO, SVOCs, TPH-DRO, -ORO, pesticides, herbicides, and RCRA metals. In addition, two soil trip blanks (one for surface soil, one for subsurface soil) and one water trip blank supplied by ALS Environmental were analyzed for VOCs and TPH-GRO.

4.0 EVALUATION AND PRESENTATION OF RESULTS

Sections 4.1 and 4.2 summarize the analytical data from the surface soil and subsurface soil samples collected during the Phase II TBA. Soil sample results from this TBA were compared to standard benchmarks; that is, their respective EPA RSLs in the 2012 Regional Screening Level Summary Table for both residential and industrial soils (EPA 2012) and MRBCA Tier 1 target levels for residential and non-residential land use for clayey soil types found in the 2006 Missouri Risk-Based Corrective Action Technical Guidance (MDNR 2006). These values have been established to represent protective concentration thresholds of common environmental contaminants. Arsenic concentrations were also compared to mean background concentrations in Jackson County, Missouri using the USGS National Geochemical Survey at http://tin.er.usgs.gov/geochem/doc/averages/countydata.htm (USGS 2012a). The complete analytical data packages for soil samples are included as Appendix D, and results are compared to screening values in Appendix E Tables E-2 through E-8. A level II data validation report completed by Tetra Tech is included in Appendix D.

4.1 SURFACE SOIL SAMPLES

As shown in Table E-2, no VOCs exceeded any benchmarks. The following PAH compounds exceeded one or more benchmarks: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene (Table E-3). Benzo(a)pyrene exceeded all benchmarks in surface soil sample SS-5. The only metal detected above a benchmark in surface soil was arsenic, but it was always found below the MRBCA Tier 1 target level for non-residential clayey soil and the USGS background concentration in Jackson County, MO (Table E-4). No pesticides exceeded any benchmark levels (Table E-5), and no herbicides were detected. For all constituent exceedances, see Table E-9 in Appendix E.

4.2 SUBSURFACE SOIL SAMPLES

As shown in Table E-6, no VOCs exceeded any benchmarks. The following PAH compounds exceeded one or more benchmarks: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene (Table E-7). No PAHs exceeded all benchmarks in any sample. The only metal detected above a benchmark in subsurface soil was arsenic, but it was always found below the MRBCA Tier 1 target level for non-residential clayey soil and the USGS background concentration in Jackson County, MO (Table E-8). For all constituent exceedances, see Table E-9 in Appendix E. Grain size analysis of sample SB-3 (7-9’) revealed 0.84% sand, 52.00% silt, and 47.16% clay. Based on laboratory

analysis and MRBCA soil classification guidelines (MDNR 2006), the soil at MCI can be classified as Soil Type 3 - Clayey.

4.3 QUALITY CONTROL SAMPLES

Although no groundwater was sampled from the subject property, one field blank and one equipment rinsate blank prepared with DI water were submitted for the following analyses: VOCs, TPH-GRO, SVOCs, TPH-DRO, TPH-ORO, pesticides, herbicides, and RCRA metals. The following metals were detected below quantitation limits ("J" coded) in the field blank: barium, chromium, lead, and selenium. The SVOCs butyl benzyl phthalate and di-n-butyl phthalate were also detected below quantitation limits in the field blank. The rinsate blank contained amounts of barium, chromium, and lead (metals) and bis(2-ethylhexyl)phthalate (SVOC) in concentrations below quantitation limits. The VOC toluene was found in trace amounts. In addition, ALS supplied one soil trip blank for surface soil and one soil trip blank and one water trip blank for subsurface soil and groundwater; all were analyzed for VOCs. Chloroform and toluene were detected below quantitation limits in the soil trip blank sample for surface soil sampling. Chloroform and methylene chloride were detected below quantitation limits in the soil trip blank sample for subsurface soil sampling. No VOCs were detected in the water trip blank. Concentrations detected were very small and considered laboratory contaminants; thus no qualifications to the data are required.

5.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

This section summarizes findings and conclusions of the Phase II TBA, and offers recommendations based on these results of the Phase II TBA.

5.1 RECOGNIZED ENVIRONMENTAL CONDITIONS

No surface or subsurface soil samples contained levels of VOCs above EPA RSLs or MRBCA Tier 1 target levels. Of the surface and subsurface soil samples that contained elevated levels of SVOCs, only one surface soil sample (SS-5) exhibited concentrations exceeding MRBCA Tier 1 Residential benchmarks for clayey soil, with benzo(a)pyrene exceeding the MRBCA Tier 1 Non-residential benchmark for clayey soil. Benzo(a)pyrene is a common contaminant found in urban environments. Sources of this PAH include vehicle exhaust and pavement sealcoat (potentially from the road running along the subject property boundary and the parking lot used for municipal garden activity and former MCI facility); burning of vegetation (a likely possibility at this undeveloped site with large amounts of vegetation); and fertilization with burned material, such as ashes (potentially used at the municipal garden). Moreover, sample SS-5 was collected at a drainage area downhill from the parking lot and the municipal garden on the subject property; the drainage area could be concentrating more widespread, diluted levels of this contaminant and other SVOCs. For example, SS-5 exhibited the highest levels of TPH-DRO and TPH-ORO, common constituents in fuel. Surface soil sample SS-6, downhill of SS-5 but further away from the parking lot, did not exhibit the same levels of PAHs or TPH-DRO/TPH-ORO. Most likely, it is the parking lot, still in use, that is elevating the concentration of benzo(a)pyrene beyond benchmark levels. All soil samples had elevated levels of arsenic, but no arsenic concentration was above the MRBCA Tier 1 clayey non-residential target level or USGS background concentrations. Although pesticides and herbicides were a concern due to previous uses at and near the subject property, no herbicides were detected, and pesticides that were detected were below all benchmark levels.

5.2 AFFECTED MEDIA

Based on sampling during this Phase II TBA, arsenic and several PAHs are present in soils at the subject property. However, arsenic concentrations are well below the mean background concentration for Jackson County, Missouri (USGS 2012a). One PAH exceeded all benchmarks in surface soil from one sample, but is likely a contaminant from the parking lot and not from other sources on the subject property. As a result, Tetra Tech recommends no further sampling at the former MCI.

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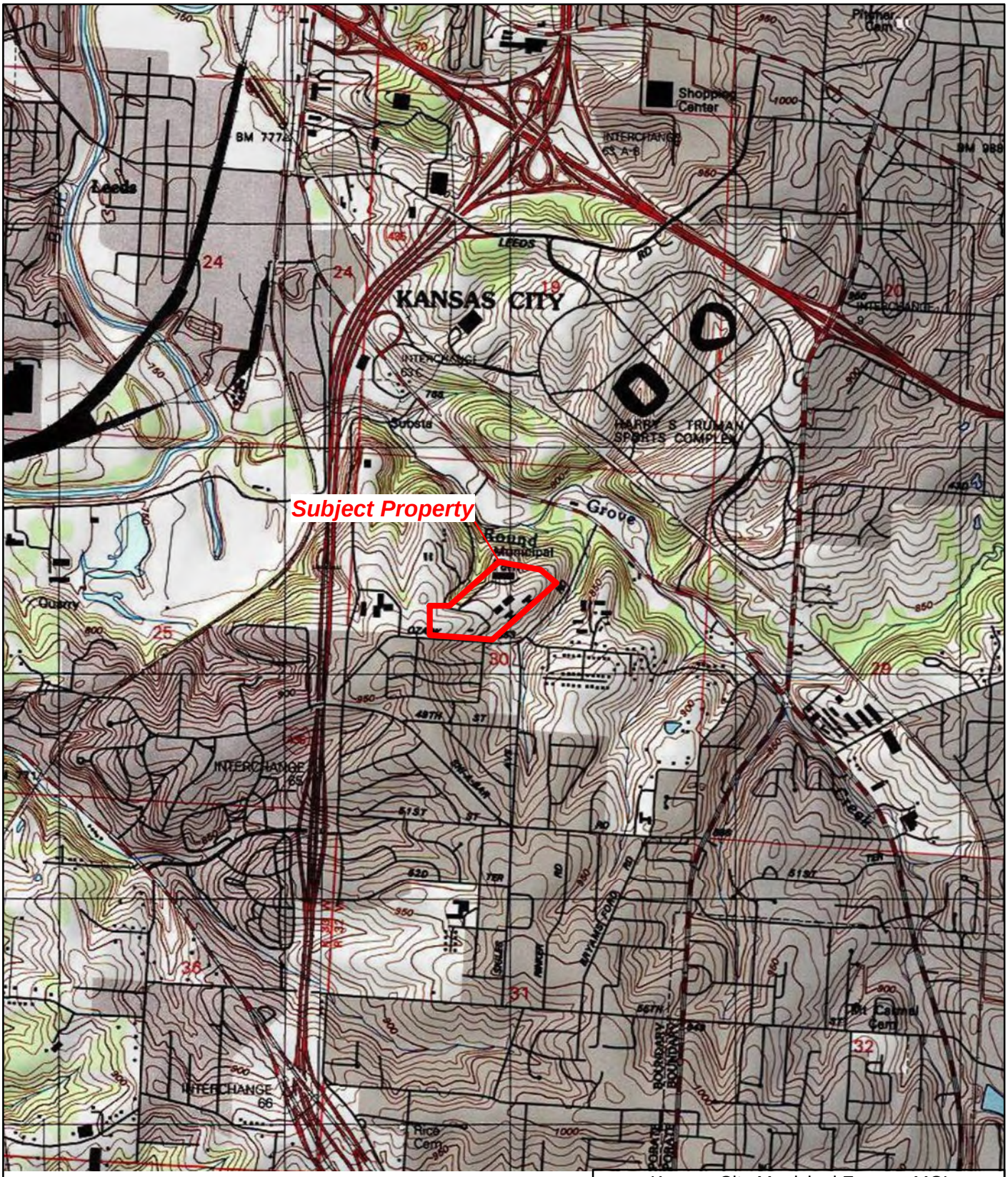
APPENDIX A

FIGURES



N

0 1,000 2,000

Feet

Source: USGS Independence, MO 7.5 Minute Topo Quad, 1996
USGS Kansas City, MO 7.5 Minute Topo Quad, 1996

Kansas City Municipal Farms - MCI
8100 Ozark Road
Kansas City, Missouri

Figure 1
Site Location Map

TETRA TECH

Date: 04/09/13 Drawn By: Nick Wiederholt Project No: X9004.L.06.0002.015.022

X:\G\9004\002\2015\022\MCI\Projects\mxd\Figure1.mxd

Legend

- Major road
- Street
- Stream/River
- Approximate subject property boundary

HEHS Health Emergency Hazmat Site

Source: ArcGIS Online, Bing Maps Hybrid, 2012; HSIP Gold, 2007

Kansas City Municipal Farms - MCI
8100 Ozark Road
Kansas City, Missouri

Figure 2
Site Layout Map

TETRA TECH

Date: 04/09/13 Drawn By: Nick Wiederholt Project No: X9004.L.06.0002.015.022

X:\G\9004\002\2015\022\MCI\Projects\mxd\Figure2.mxd

Legend

- DPT soil and groundwater sample location
- Soil classification sample location
- Subsurface soil sample location
- Surface soil sample location
- Street
- Approximate subject property boundary
- DPT Direct push technology

Source: ArcGIS Online, Bing Maps Hybrid, 2012; HSIP Gold, 2007

Kansas City Municipal Farms - MCI
8100 Ozark Road
Kansas City, Missouri

Figure 3

Sample Location Map

TETRA TECH

Date: 04/09/13 Drawn By: Nick Wiederholt Project No: X9004.L.06.0002.015.022

X:\G\9004\0002\015\022\MCI\Projects\mxd\Figure3_SampleLocMap.mxd

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

MUNICIPAL FARMS - MCI
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: East	DESCRIPTION	This photograph shows the area on the subject property where surface soil sample SS-1 was collected.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/15/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: North	DESCRIPTION	This photograph shows the area on the subject property where surface soil sample SS-2 was collected.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/15/13
	PHOTOGRAPHER	Kaitlyn Bahr	

MUNICIPAL FARMS - MCI
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: North	DESCRIPTION	This photograph shows the area on the subject property where surface soil sample SS-3 was collected.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/15/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: Northwest	DESCRIPTION	This photograph shows the area on the subject property where surface soil sample SS-4 was collected.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/15/13
	PHOTOGRAPHER	Kaitlyn Bahr	

MUNICIPAL FARMS - MCI
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: West	DESCRIPTION	This photograph shows the area on the subject property where surface soil sample SS-5 was collected.	5
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/15/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: East	DESCRIPTION	This photograph shows the area on the subject property where surface soil sample SS-6 was collected.	6
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/15/13
	PHOTOGRAPHER	Kaitlyn Bahr	

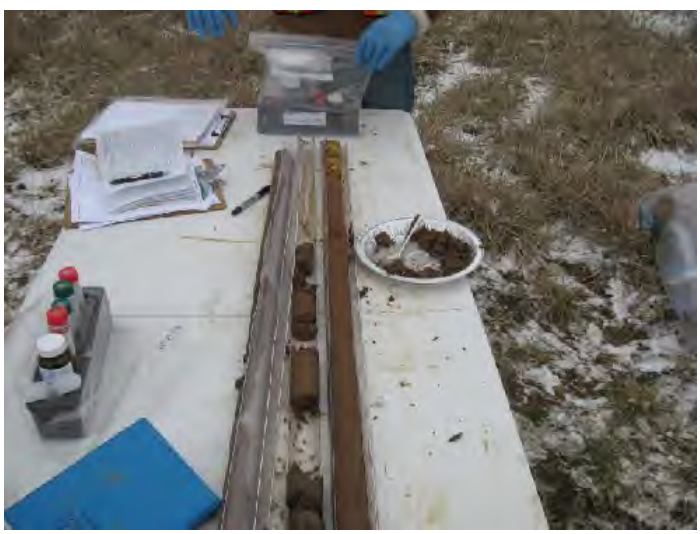
MUNICIPAL FARMS - MCI
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: North	DESCRIPTION	This photograph shows Superfund Technical Assessment and Response Team (START) personnel using a truck-mounted Geoprobe® to collect soil borings from SB-1.	7
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/22/13
	PHOTOGRAPHER	Danny O'Connor	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows soil borings being prepared for documentation and sampling.	8
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/22/13
	PHOTOGRAPHER	Danny O'Connor	

MUNICIPAL FARMS - MCI
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows soil boring SB-4. START documented color, texture, and photoionization detector (PID) readings from each soil boring.	9
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/22/13
	PHOTOGRAPHER	Danny O'Connor	



TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows START personnel collecting a sample from a soil boring.	10
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/22/13
	PHOTOGRAPHER	Danny O'Connor	

APPENDIX C

SITE LOGBOOK

3/16/13

MCI Site

0700 Joanna Sciegienka and Kaitlyn Bahr arrive on site to meet city personnel to unlock the gate and to gain access to the building by the radiotower that was not accessed during the Phase I site walk.

0725 The utility locate company arrives on site to mark utilities

0805 Collect surface soil sample SS-1
39.04129 N
94.49141 W

0821 Collect surface soil sample SS-2
39.04152 N
94.49163 W

0843 Collect surface soil sample SS-3
39.04132 N
94.48977 W

0858 collect surface soil sample SS-4
39.04144 N
94.48907 W

0919 Collect surface soil sample SS-5
39.03920 N
94.49099 W

0946 Collect surface soil sample SS-6
39.03916 N
94.49001 W

3-22-13 MCI - KC Municipal Farms

0600 STM O'Connor arrives @ Tt, prep for days activities

0700 STMs Cosmo Canacari & Ashley Gleason arrive @ Tt. Preform daily tailgate, discuss site activities

0730 Depart for site

0750 Arrive on site, MCI
Begin soil probing @ SB-1 (soil only)
39.03956, -94.49364
Collect 2 samples

0845 SB-1 (6-8')

0835 SB-1 ~~(13-15')~~ (10-12')
- Refusal @ ~~15'~~ 12' bgs - shale
No high PID readings

0919 Begin boring @ SB-2 (soil only)
39.04011, -94.49099
No high PID readings
Collect 2 samples

0935 SB-2 (5-7')

0945 SB-2 (7-9')
Refusal @ 9' bgs, bedrock

0955 Begin boring @ SB-3 (grain size analysis only)

1015 ↗ SB-3 (7-9')
~~0945~~ 39.03998, -94.49033
D.O.

3-22-13 MCI - KC Municipal Farms
refusal @ 9' bgs
Collect sample for grain size analysis

1030 Begin boring @ SB-4
Will attempt to collect soil & groundwater from this location
39.04067, -94.49042
Collect 2 soil samples, 10' refusal

1050 SB-4 (6-8')

1100 SB-4 (8-10')
- Soil appears dry @ bottom of hole
send down check valve to confirm no Groundwater. - No Groundwater

1113 Arrive @ SB-5
Will attempt to collect soil & groundwater samples
39.04152, -94.49120
refusal @ 5' bgs. Soil boring appears to have significant amount of brick & concrete
- Try three other locations, all have refusal @ ≤2' bgs. Collect one sample from first location

1140 SB-5 (3-5') - Metals, VOCs, SVOCs
No Groundwater present

1150 Arrive @ SB-6
39.04174, -94.49088

3-22-13 MCI/Animal Shelter - KC Municipal Farms
Refusal @ 13' bgs
Collect two samples
1215 SB-6 (6-8') Metals, VOCs, SVOC
1220 SB-6 (11-13') " "
1230 Arrive @ animal shelter. Quick site recon
1230 Lunch
1300 End Lunch
1325 Begin installing temp groundwater monitoring well @ GW-1
39.04461, -94.49278
refusal @ 2', try another spot refusal @ 4'
Third spot refusal @ 4'
Unable to collect sample from GW-1
1340 Begin surface soil sampling
1347 SS-1: VOCs, SVOCs, herb., pest., warfarin, metals
39.04462, -94.49352
1405 Collect surface soil sample from SS-3
VOCs, SVOCs, herb., pest., warfarin, metals
39.04448, -94.49388
Attempt to install temp monitoring well @ GW-2, 39.04491, -94.49338
1440 Begin collecting samples from GW-2 location
VOCs, SVOCs, herb, pest, priority pollutant metals (dissolved), TDS

3-22-13 Animal Shelter - KC Municipal Farms
Groundwater @ 28' bgs, refusal @ 32' bgs
1535 Begin collecting SS-2
39.04404, -94.49345
Analyze for VOCs, SVOCs, herb, pest., priority pollutant metals, warfarin
STM Cunacari attempts to install temp monitoring well @ GW-4
-39.04416, -94.49319
Refusal @ 18'. No Groundwater, unable to collect sample
1600 Begin collecting SS-4
39.04539, -94.49463
VOCs, SVOCs, herb, pest, warfarin, metals
1615 STM Cunacari attempts to install temp monitoring well @ GW-3
39.04492, -94.49407
Refusal @ 25' bgs - will allow to sit
1640 Begin soil boring SB-7 (grain size analysis)
39.04528, -94.49490. Refusal @ 11'
Collect sample
SB-7 (9-11') - grain size analysis
1715 Return to GW-3. No Groundwater, no sample collected
1730 Complete field activities, depart for office

3-22-13 MCI/Animal Shelter - KC Municipal Farms

1750 Collect Field Blank sample

1800 Collect Rinsate Sample

- Prep samples For 3-25 shipement

1845 End day

Danny O.
3-22-13

APPENDIX D

CHAIN-OF-CUSTODY RECORDS, ANALYTICAL DATA PACKAGES, AND DATA VALIDATION REPORT

25-Mar-2013

Emily Fisher
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Municipal Farms-MCI, Kansas City, MO 3/15/13** Work Order: **1303495**

Dear Emily,

ALS Environmental received 7 samples on 16-Mar-2013 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 81.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

ALS Group USA, Corp

Date: 25-Mar-13

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Work Order: **1303495**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1303495-01	SS-1	Soil		3/15/2013 08:05	3/16/2013 10:00	☐
1303495-02	SS-2	Soil		3/15/2013 08:21	3/16/2013 10:00	☐
1303495-03	SS-3	Soil		3/15/2013 08:43	3/16/2013 10:00	☐
1303495-04	SS-4	Soil		3/15/2013 08:58	3/16/2013 10:00	☐
1303495-05	SS-5	Soil		3/15/2013 09:19	3/16/2013 10:00	☐
1303495-06	SS-6	Soil		3/15/2013 09:46	3/16/2013 10:00	☐
1303495-07	Trip Blank	Soil		3/15/2013	3/16/2013 10:00	☐

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Work Order: 1303495

Case Narrative

Batch 46961 sample 1303495-01 Herbicide analysis had to be run at a dilution due to matrix. The surrogate was diluted out.

Batch 46961 samples 1303495-02 through 1303495-06 Herbicide analyses had to be run at a dilution due to matrix. The surrogate recoveries were below control limits. The reporting limits may be biased low.

Batch 46974 MS/MSD data for Pesticides is not related to this project's samples. No data requires qualification.

Batches 46995 and 47041 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 46998 sample SS-1 MS/MSD recoveries for GRO were above control limits. The corresponding result for GRO in the parent may be biased high due to matrix interference.

Batch 47009 LCS recoveries for Carbazole and N-Nitrosodiphenylamine were above the upper control limit. All samples in this quality control batch were ND for Carbazole and N-Nitrosodiphenylamine. No data requires qualification. The MS/MSD data for Semi-Volatiles is not related to this project's samples. No data requires qualification. Sample 1303495-01 Semi-Volatiles and DRO analyses had one high surrogate recovery due to matrix interference.

Batch R117582 sample 1303495-02 Volatiles analysis had one high surrogate recovery due to matrix interference. The LCS recovery for 1,2-Dibromoehane was above the upper control limit. All sample results in the batch were non-detect for this compound. No qualification is necessary for 1,2-Dibromoethane. The MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

Batch R117689 LCS recovery for 1,2-Dibromoehane was above the upper control limit. All sample results in the batch were non-detect for this compound. No qualification is necessary for 1,2-Dibromoethane. The MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

ALS Group USA, Corp

Date: 25-Mar-13

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
WorkOrder: **1303495**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-1
Collection Date: 3/15/2013 08:05 AM

Work Order: 1303495
Lab ID: 1303495-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method:	**SW8151**		Prep: SW8151M / 3/18/13		Analyst: **JD**
2,4,5-T	U		25	1,300	µg/Kg-dry	20	3/22/2013 10:50
2,4,5-TP (Silvex)	U		17	2,500	µg/Kg-dry	20	3/22/2013 10:50
2,4-D	U		18	1,300	µg/Kg-dry	20	3/22/2013 10:50
2,4-DB	U		83	1,300	µg/Kg-dry	20	3/22/2013 10:50
Dalapon	U		83	1,300	µg/Kg-dry	20	3/22/2013 10:50
Dicamba	U		83	1,300	µg/Kg-dry	20	3/22/2013 10:50
Dichlorprop	U		83	1,300	µg/Kg-dry	20	3/22/2013 10:50
Dinoseb	U		83	1,300	µg/Kg-dry	20	3/22/2013 10:50
MCPA	U		8,300	43,000	µg/Kg-dry	20	3/22/2013 10:50
MCPP	U		8,300	43,000	µg/Kg-dry	20	3/22/2013 10:50
Surr: DCAA	*0*	S		*30-150*	*%REC*	20	3/22/2013 10:50
PESTICIDES		Method:	**SW8081**		Prep: SW3541 / 3/19/13		Analyst: **JD**
4,4´-DDD	**9.0**	J	**3.9**	**12**	**µg/Kg-dry**	1	3/20/2013 19:51
4,4´-DDE	**47**		**2.4**	**12**	**µg/Kg-dry**	1	3/20/2013 19:51
4,4´-DDT	**22**		**2.8**	**12**	**µg/Kg-dry**	1	3/20/2013 19:51
Aldrin	U		1.1	12	µg/Kg-dry	1	3/20/2013 19:51
alpha-BHC	U		3.9	12	µg/Kg-dry	1	3/20/2013 19:51
alpha-Chlordane	U		3.4	12	µg/Kg-dry	1	3/20/2013 19:51
beta-BHC	U		4.6	12	µg/Kg-dry	1	3/20/2013 19:51
Chlordane, Technical	U		610	1,500	µg/Kg-dry	50	3/20/2013 16:29
delta-BHC	U		4.5	12	µg/Kg-dry	1	3/20/2013 19:51
Dieldrin	U		52	610	µg/Kg-dry	50	3/20/2013 16:29
Endosulfan I	U		80	610	µg/Kg-dry	50	3/20/2013 16:29
Endosulfan II	U		67	610	µg/Kg-dry	50	3/20/2013 16:29
Endosulfan sulfate	U		75	610	µg/Kg-dry	50	3/20/2013 16:29
Endrin	U		180	610	µg/Kg-dry	50	3/20/2013 16:29
Endrin aldehyde	U		150	610	µg/Kg-dry	50	3/20/2013 16:29
Endrin ketone	U		240	610	µg/Kg-dry	50	3/20/2013 16:29
gamma-BHC (Lindane)	U		5.7	12	µg/Kg-dry	1	3/20/2013 19:51
gamma-Chlordane	U		2.0	12	µg/Kg-dry	1	3/20/2013 19:51
Heptachlor	U		6.3	12	µg/Kg-dry	1	3/20/2013 19:51
Heptachlor epoxide	U		97	610	µg/Kg-dry	50	3/20/2013 16:29
Methoxychlor	U		150	610	µg/Kg-dry	50	3/20/2013 16:29
Toxaphene	U		720	3,700	µg/Kg-dry	50	3/20/2013 16:29
Surr: Decachlorobiphenyl	*108*			*45-135*	*%REC*	1	3/20/2013 19:51
Surr: Tetrachloro-m-xylene	*109*			*45-124*	*%REC*	1	3/20/2013 19:51
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/21/13		Analyst: **LR**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-1
Collection Date: 3/15/2013 08:05 AM

Work Order: 1303495
Lab ID: 1303495-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.12**		**0.00086**	**0.017**	**mg/Kg-dry**	1	3/21/2013 14:37
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/19/13		Analyst: **RH**
Arsenic	**6.3**		**0.069**	**0.51**	**mg/Kg-dry**	1	3/19/2013 23:51
Barium	**200**		**0.14**	**5.1**	**mg/Kg-dry**	10	3/20/2013 15:02
Cadmium	**1.3**		**0.0020**	**0.20**	**mg/Kg-dry**	1	3/19/2013 23:51
Chromium	**13**		**0.083**	**0.51**	**mg/Kg-dry**	1	3/19/2013 23:51
Lead	**150**		**0.020**	**5.1**	**mg/Kg-dry**	10	3/20/2013 15:02
Selenium	**1.0**		**0.065**	**0.51**	**mg/Kg-dry**	1	3/19/2013 23:51
Silver	**0.073**	J	**0.0020**	**0.51**	**mg/Kg-dry**	1	3/19/2013 23:51
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
DRO (C10-C21)	**31**		**1.5**	**3.6**	**mg/Kg-dry**	1	3/21/2013 02:16
ORO (C21-C35)	**170**		**1.7**	**3.6**	**mg/Kg-dry**	1	3/21/2013 02:16
Surr: 4-Terphenyl-d14	*140*	S		*25-137*	*%REC*	1	3/21/2013 02:16
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
1,1`-Biphenyl	U		6.1	410	µg/Kg-dry	1	3/21/2013 02:16
2,4,5-Trichlorophenol	U		9.9	200	µg/Kg-dry	1	3/21/2013 02:16
2,4,6-Trichlorophenol	U		9.9	200	µg/Kg-dry	1	3/21/2013 02:16
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	3/21/2013 02:16
2,4-Dimethylphenol	U		50	410	µg/Kg-dry	1	3/21/2013 02:16
2,4-Dinitrophenol	U		53	820	µg/Kg-dry	1	3/21/2013 02:16
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	3/21/2013 02:16
2-Chloronaphthalene	U		11	99	µg/Kg-dry	1	3/21/2013 02:16
2-Chlorophenol	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
2-Methylnaphthalene	**40**	J	**12**	**99**	**µg/Kg-dry**	1	3/21/2013 02:16
2-Methylphenol	U		12	200	µg/Kg-dry	1	3/21/2013 02:16
2-Nitroaniline	U		9.4	820	µg/Kg-dry	1	3/21/2013 02:16
2-Nitrophenol	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
3,3´-Dichlorobenzidine	U		12	820	µg/Kg-dry	1	3/21/2013 02:16
3-Nitroaniline	U		100	820	µg/Kg-dry	1	3/21/2013 02:16
4,6-Dinitro-2-methylphenol	U		60	410	µg/Kg-dry	1	3/21/2013 02:16
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
4-Chloroaniline	U		16	820	µg/Kg-dry	1	3/21/2013 02:16
4-Chlorophenyl phenyl ether	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
4-Methylphenol	**130**	J	**12**	**200**	**µg/Kg-dry**	1	3/21/2013 02:16
4-Nitroaniline	U		18	820	µg/Kg-dry	1	3/21/2013 02:16
4-Nitrophenol	U		50	820	µg/Kg-dry	1	3/21/2013 02:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-1
Collection Date: 3/15/2013 08:05 AM

Work Order: 1303495
Lab ID: 1303495-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthene	**91**		**11**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Acenaphthylene	**87**		**12**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Acetophenone	U		6.2	410	µg/Kg-dry	1	3/21/2013 02:16
Anthracene	**290**		**13**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Atrazine	U		13	410	µg/Kg-dry	1	3/21/2013 02:16
Benzaldehyde	U		16	410	µg/Kg-dry	1	3/21/2013 02:16
Benzo(a)anthracene	**630**		**15**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Benzo(a)pyrene	**540**		**19**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Benzo(b)fluoranthene	**830**		**20**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Benzo(g,h,i)perylene	**190**		**29**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Benzo(k)fluoranthene	**440**		**17**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	3/21/2013 02:16
Bis(2-chloroethyl)ether	U		10	200	µg/Kg-dry	1	3/21/2013 02:16
Bis(2-chloroisopropyl)ether	U		9.6	200	µg/Kg-dry	1	3/21/2013 02:16
Bis(2-ethylhexyl)phthalate	U		12	410	µg/Kg-dry	1	3/21/2013 02:16
Butyl benzyl phthalate	**130**	J	**17**	**200**	**µg/Kg-dry**	1	3/21/2013 02:16
Caprolactam	U		18	410	µg/Kg-dry	1	3/21/2013 02:16
Carbazole	U		14	200	µg/Kg-dry	1	3/21/2013 02:16
Chrysene	**870**		**14**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Dibenzo(a,h)anthracene	**57**		**21**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Dibenzofuran	**81**	J	**11**	**200**	**µg/Kg-dry**	1	3/21/2013 02:16
Diethyl phthalate	U		10	410	µg/Kg-dry	1	3/21/2013 02:16
Dimethyl phthalate	U		10	410	µg/Kg-dry	1	3/21/2013 02:16
Di-n-butyl phthalate	U		12	410	µg/Kg-dry	1	3/21/2013 02:16
Di-n-octyl phthalate	U		15	200	µg/Kg-dry	1	3/21/2013 02:16
Fluoranthene	**1,100**		**15**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Fluorene	**79**		**11**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
Hexachlorobutadiene	U		10	200	µg/Kg-dry	1	3/21/2013 02:16
Hexachlorocyclopentadiene	U		43	410	µg/Kg-dry	1	3/21/2013 02:16
Hexachloroethane	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
Indeno(1,2,3-cd)pyrene	**190**		**23**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Isophorone	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
Naphthalene	**26**	J	**11**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Nitrobenzene	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	3/21/2013 02:16
N-Nitrosodiphenylamine	U		73	200	µg/Kg-dry	1	3/21/2013 02:16
Pentachlorophenol	U		18	410	µg/Kg-dry	1	3/21/2013 02:16
Phenanthrene	**890**		**37**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Phenol	U		10	200	µg/Kg-dry	1	3/21/2013 02:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-1
Collection Date: 3/15/2013 08:05 AM

Work Order: 1303495
Lab ID: 1303495-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	**1,500**		**15**	**37**	**µg/Kg-dry**	1	3/21/2013 02:16
Surr: 2,4,6-Tribromophenol	*72.0*			*34-140*	*%REC*	1	3/21/2013 02:16
Surr: 2-Fluorobiphenyl	*66.2*			*12-100*	*%REC*	1	3/21/2013 02:16
Surr: 2-Fluorophenol	*77.8*			*33-117*	*%REC*	1	3/21/2013 02:16
Surr: 4-Terphenyl-d14	*140*	S		*25-137*	*%REC*	1	3/21/2013 02:16
Surr: Nitrobenzene-d5	*68.2*			*37-107*	*%REC*	1	3/21/2013 02:16
Surr: Phenol-d6	*80.3*			*40-106*	*%REC*	1	3/21/2013 02:16
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/18/13		Analyst: **RS**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/20/2013 04:07
Surr: Toluene-d8	*96.3*			*70-130*	*%REC*	1	3/20/2013 04:07
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,1,2,2-Tetrachloroethane	U		0.15	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,1,2-Trichloroethane	U		0.20	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,1,2-Trichlorotrifluoroethane	U		0.29	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,1-Dichloroethane	U		0.27	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,1-Dichloroethene	U		0.24	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,2,4-Trichlorobenzene	U		0.22	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,2-Dibromo-3-chloropropane	U		0.21	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,2-Dibromoethane	U		0.21	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,2-Dichlorobenzene	U		0.21	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,2-Dichloroethane	U		0.29	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,2-Dichloropropane	U		0.27	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,3-Dichlorobenzene	U		0.20	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
1,4-Dichlorobenzene	U		0.22	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
2-Butanone	**8.4**	J	**0.81**	**10**	**µg/Kg-dry**	0.825	3/20/2013 18:10
2-Hexanone	U		0.32	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
4-Methyl-2-pentanone	U		0.21	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Acetone	**87**		**0.98**	**10**	**µg/Kg-dry**	0.825	3/20/2013 18:10
Benzene	U		0.26	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Bromodichloromethane	U		0.22	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Bromoform	U		0.16	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Bromomethane	U		0.37	10	µg/Kg-dry	0.825	3/20/2013 18:10
Carbon disulfide	**0.79**	J	**0.39**	**5.2**	**µg/Kg-dry**	0.825	3/20/2013 18:10
Carbon tetrachloride	U		0.21	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Chlorobenzene	U		0.23	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Chloroethane	U		0.59	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Chloroform	**0.60**	J	**0.27**	**5.2**	**µg/Kg-dry**	0.825	3/20/2013 18:10
Chloromethane	U		0.32	10	µg/Kg-dry	0.825	3/20/2013 18:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-1
Collection Date: 3/15/2013 08:05 AM

Work Order: 1303495
Lab ID: 1303495-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.31	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
cis-1,3-Dichloropropene	U		0.19	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Cyclohexane	U		0.33	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Dibromochloromethane	U		0.18	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Dichlorodifluoromethane	U		0.35	10	µg/Kg-dry	0.825	3/20/2013 18:10
Ethylbenzene	U		0.20	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Isopropylbenzene	U		0.20	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
m,p-Xylene	U		0.39	2.6	µg/Kg-dry	0.825	3/20/2013 18:10
Methyl acetate	U		0.84	10	µg/Kg-dry	0.825	3/20/2013 18:10
Methyl tert-butyl ether	U		0.26	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Methylcyclohexane	U		0.29	10	µg/Kg-dry	0.825	3/20/2013 18:10
Methylene chloride	U		0.30	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
o-Xylene	U		0.21	2.6	µg/Kg-dry	0.825	3/20/2013 18:10
Styrene	U		0.19	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Tetrachloroethene	U		0.31	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Toluene	**1.8**	J	**0.25**	**5.2**	**µg/Kg-dry**	0.825	3/20/2013 18:10
trans-1,2-Dichloroethene	U		0.31	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.825	3/20/2013 18:10
Trichloroethene	U		0.24	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Trichlorofluoromethane	U		1.2	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Vinyl chloride	U		0.32	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Xylenes, Total	U		0.60	5.2	µg/Kg-dry	0.825	3/20/2013 18:10
Surr: 1,2-Dichloroethane-d4	*117*			*70-120*	*%REC*	0.825	3/20/2013 18:10
Surr: 4-Bromofluorobenzene	*107*			*75-120*	*%REC*	0.825	3/20/2013 18:10
Surr: Dibromofluoromethane	*106*			*85-115*	*%REC*	0.825	3/20/2013 18:10
Surr: Toluene-d8	*102*			*85-120*	*%REC*	0.825	3/20/2013 18:10
MOISTURE		Method:	**A2540 G**				Analyst: **KF**
Moisture	**21**		**0.025**	**0.050**	**% of sample**	1	3/18/2013 14:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-2
Collection Date: 3/15/2013 08:21 AM

Work Order: 1303495
Lab ID: 1303495-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method:	**SW8151**		Prep: SW8151M / 3/18/13		Analyst: **JD**
2,4,5-T	U		12	640	µg/Kg-dry	10	3/22/2013 11:36
2,4,5-TP (Silvex)	U		8.5	1,300	µg/Kg-dry	10	3/22/2013 11:36
2,4-D	U		9.1	640	µg/Kg-dry	10	3/22/2013 11:36
2,4-DB	U		42	640	µg/Kg-dry	10	3/22/2013 11:36
Dalapon	U		42	640	µg/Kg-dry	10	3/22/2013 11:36
Dicamba	U		42	640	µg/Kg-dry	10	3/22/2013 11:36
Dichlorprop	U		42	640	µg/Kg-dry	10	3/22/2013 11:36
Dinoseb	U		42	640	µg/Kg-dry	10	3/22/2013 11:36
MCPA	U		4,200	22,000	µg/Kg-dry	10	3/22/2013 11:36
MCPP	U		4,200	22,000	µg/Kg-dry	10	3/22/2013 11:36
Surr: DCAA	*10.0*	S		*30-150*	*%REC*	10	3/22/2013 11:36
PESTICIDES		Method:	**SW8081**		Prep: SW3541 / 3/19/13		Analyst: **JD**
4,4´-DDD	**5.0**	J	**4.0**	**12**	**µg/Kg-dry**	1	3/20/2013 20:07
4,4´-DDE	**38**		**2.4**	**12**	**µg/Kg-dry**	1	3/20/2013 20:07
4,4´-DDT	**17**		**2.9**	**12**	**µg/Kg-dry**	1	3/20/2013 20:07
Aldrin	U		1.1	12	µg/Kg-dry	1	3/20/2013 20:07
alpha-BHC	U		4.0	12	µg/Kg-dry	1	3/20/2013 20:07
alpha-Chlordane	U		3.4	12	µg/Kg-dry	1	3/20/2013 20:07
beta-BHC	U		4.7	12	µg/Kg-dry	1	3/20/2013 20:07
Chlordane, Technical	U		61	150	µg/Kg-dry	5	3/20/2013 16:45
delta-BHC	U		4.6	12	µg/Kg-dry	1	3/20/2013 20:07
Dieldrin	U		5.3	62	µg/Kg-dry	5	3/20/2013 16:45
Endosulfan I	U		8.1	62	µg/Kg-dry	5	3/20/2013 16:45
Endosulfan II	U		6.8	62	µg/Kg-dry	5	3/20/2013 16:45
Endosulfan sulfate	U		7.6	62	µg/Kg-dry	5	3/20/2013 16:45
Endrin	U		18	62	µg/Kg-dry	5	3/20/2013 16:45
Endrin aldehyde	U		15	62	µg/Kg-dry	5	3/20/2013 16:45
Endrin ketone	U		24	62	µg/Kg-dry	5	3/20/2013 16:45
gamma-BHC (Lindane)	U		5.7	12	µg/Kg-dry	1	3/20/2013 20:07
gamma-Chlordane	U		2.1	12	µg/Kg-dry	1	3/20/2013 20:07
Heptachlor	U		6.4	12	µg/Kg-dry	1	3/20/2013 20:07
Heptachlor epoxide	U		9.8	62	µg/Kg-dry	5	3/20/2013 16:45
Methoxychlor	U		15	62	µg/Kg-dry	5	3/20/2013 16:45
Toxaphene	U		73	370	µg/Kg-dry	5	3/20/2013 16:45
Surr: Decachlorobiphenyl	*114*			*45-135*	*%REC*	1	3/20/2013 20:07
Surr: Tetrachloro-m-xylene	*102*			*45-124*	*%REC*	1	3/20/2013 20:07
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/21/13		Analyst: **LR**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-2
Collection Date: 3/15/2013 08:21 AM

Work Order: 1303495
Lab ID: 1303495-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.61**		**0.0049**	**0.099**	**mg/Kg-dry**	5	3/21/2013 15:59
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/19/13		Analyst: **RH**
Arsenic	**8.9**		**0.064**	**0.47**	**mg/Kg-dry**	1	3/19/2013 23:57
Barium	**220**		**0.13**	**4.7**	**mg/Kg-dry**	10	3/20/2013 15:08
Cadmium	**2.6**		**0.0019**	**0.19**	**mg/Kg-dry**	1	3/19/2013 23:57
Chromium	**24**		**0.077**	**0.47**	**mg/Kg-dry**	1	3/19/2013 23:57
Lead	**220**		**0.019**	**4.7**	**mg/Kg-dry**	10	3/20/2013 15:08
Selenium	**1.4**		**0.060**	**0.47**	**mg/Kg-dry**	1	3/19/2013 23:57
Silver	**0.28**	J	**0.0019**	**0.47**	**mg/Kg-dry**	1	3/19/2013 23:57
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
DRO (C10-C21)	**40**		**1.6**	**3.7**	**mg/Kg-dry**	1	3/21/2013 02:45
ORO (C21-C35)	**110**		**1.8**	**3.7**	**mg/Kg-dry**	1	3/21/2013 02:45
Surr: 4-Terphenyl-d14	*88.6*			*25-137*	*%REC*	1	3/21/2013 02:45
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
1,1`-Biphenyl	U		6.3	420	µg/Kg-dry	1	3/21/2013 02:45
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	3/21/2013 02:45
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	3/21/2013 02:45
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	3/21/2013 02:45
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	3/21/2013 02:45
2,4-Dinitrophenol	U		54	840	µg/Kg-dry	1	3/21/2013 02:45
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	3/21/2013 02:45
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	3/21/2013 02:45
2-Chlorophenol	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
2-Methylnaphthalene	**110**		**12**	**100**	**µg/Kg-dry**	1	3/21/2013 02:45
2-Methylphenol	U		12	200	µg/Kg-dry	1	3/21/2013 02:45
2-Nitroaniline	U		9.6	840	µg/Kg-dry	1	3/21/2013 02:45
2-Nitrophenol	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
3,3´-Dichlorobenzidine	U		12	840	µg/Kg-dry	1	3/21/2013 02:45
3-Nitroaniline	U		100	840	µg/Kg-dry	1	3/21/2013 02:45
4,6-Dinitro-2-methylphenol	U		61	420	µg/Kg-dry	1	3/21/2013 02:45
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
4-Chloroaniline	U		16	840	µg/Kg-dry	1	3/21/2013 02:45
4-Chlorophenyl phenyl ether	U		12	200	µg/Kg-dry	1	3/21/2013 02:45
4-Methylphenol	U		12	200	µg/Kg-dry	1	3/21/2013 02:45
4-Nitroaniline	U		19	840	µg/Kg-dry	1	3/21/2013 02:45
4-Nitrophenol	U		51	840	µg/Kg-dry	1	3/21/2013 02:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-2
Collection Date: 3/15/2013 08:21 AM

Work Order: 1303495
Lab ID: 1303495-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthene	U		12	38	µg/Kg-dry	1	3/21/2013 02:45
Acenaphthylene	U		12	38	µg/Kg-dry	1	3/21/2013 02:45
Acetophenone	U		6.3	420	µg/Kg-dry	1	3/21/2013 02:45
Anthracene	U		13	38	µg/Kg-dry	1	3/21/2013 02:45
Atrazine	U		13	420	µg/Kg-dry	1	3/21/2013 02:45
Benzaldehyde	**41**	J	**16**	**420**	**µg/Kg-dry**	1	3/21/2013 02:45
Benzo(a)anthracene	**52**		**15**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Benzo(a)pyrene	**34**	J	**20**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Benzo(b)fluoranthene	**84**		**20**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Benzo(g,h,i)perylene	U		30	38	µg/Kg-dry	1	3/21/2013 02:45
Benzo(k)fluoranthene	**34**	J	**17**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	3/21/2013 02:45
Bis(2-chloroethyl)ether	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
Bis(2-chloroisopropyl)ether	U		9.9	200	µg/Kg-dry	1	3/21/2013 02:45
Bis(2-ethylhexyl)phthalate	**31**	J	**13**	**420**	**µg/Kg-dry**	1	3/21/2013 02:45
Butyl benzyl phthalate	**43**	J	**18**	**200**	**µg/Kg-dry**	1	3/21/2013 02:45
Caprolactam	U		18	420	µg/Kg-dry	1	3/21/2013 02:45
Carbazole	U		14	200	µg/Kg-dry	1	3/21/2013 02:45
Chrysene	**71**		**14**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Dibenzo(a,h)anthracene	U		22	38	µg/Kg-dry	1	3/21/2013 02:45
Dibenzofuran	**60**	J	**12**	**200**	**µg/Kg-dry**	1	3/21/2013 02:45
Diethyl phthalate	U		11	420	µg/Kg-dry	1	3/21/2013 02:45
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	3/21/2013 02:45
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	3/21/2013 02:45
Di-n-octyl phthalate	U		16	200	µg/Kg-dry	1	3/21/2013 02:45
Fluoranthene	**98**		**15**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Fluorene	U		11	38	µg/Kg-dry	1	3/21/2013 02:45
Hexachlorobenzene	U		12	200	µg/Kg-dry	1	3/21/2013 02:45
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
Hexachlorocyclopentadiene	U		44	420	µg/Kg-dry	1	3/21/2013 02:45
Hexachloroethane	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
Indeno(1,2,3-cd)pyrene	U		24	38	µg/Kg-dry	1	3/21/2013 02:45
Isophorone	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
Naphthalene	**49**		**11**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Nitrobenzene	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	3/21/2013 02:45
N-Nitrosodiphenylamine	U		75	200	µg/Kg-dry	1	3/21/2013 02:45
Pentachlorophenol	U		19	420	µg/Kg-dry	1	3/21/2013 02:45
Phenanthrene	**160**		**38**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Phenol	U		11	200	µg/Kg-dry	1	3/21/2013 02:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-2
Collection Date: 3/15/2013 08:21 AM

Work Order: 1303495
Lab ID: 1303495-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	**84**		**16**	**38**	**µg/Kg-dry**	1	3/21/2013 02:45
Surr: 2,4,6-Tribromophenol	*78.2*			*34-140*	*%REC*	1	3/21/2013 02:45
Surr: 2-Fluorobiphenyl	*66.7*			*12-100*	*%REC*	1	3/21/2013 02:45
Surr: 2-Fluorophenol	*80.7*			*33-117*	*%REC*	1	3/21/2013 02:45
Surr: 4-Terphenyl-d14	*88.6*			*25-137*	*%REC*	1	3/21/2013 02:45
Surr: Nitrobenzene-d5	*72.0*			*37-107*	*%REC*	1	3/21/2013 02:45
Surr: Phenol-d6	*81.3*			*40-106*	*%REC*	1	3/21/2013 02:45
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/18/13		Analyst: **RS**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/20/2013 04:30
Surr: Toluene-d8	*96.8*			*70-130*	*%REC*	1	3/20/2013 04:30
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.25	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,1,2,2-Tetrachloroethane	U		0.16	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,1,2-Trichloroethane	U		0.21	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,1,2-Trichlorotrifluoroethane	U		0.31	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,1-Dichloroethane	U		0.28	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,1-Dichloroethene	U		0.25	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,2,4-Trichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,2-Dibromo-3-chloropropane	U		0.22	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,2-Dibromoethane	U		0.23	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,2-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,2-Dichloroethane	U		0.31	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,2-Dichloropropane	U		0.29	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,3-Dichlorobenzene	U		0.21	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
1,4-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
2-Butanone	**12**		**0.86**	**11**	**µg/Kg-dry**	0.874	3/20/2013 15:19
2-Hexanone	U		0.34	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
4-Methyl-2-pentanone	U		0.22	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Acetone	**110**		**1.0**	**11**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Benzene	**0.81**	J	**0.28**	**5.6**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Bromodichloromethane	U		0.23	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Bromoform	U		0.17	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Bromomethane	U		0.39	11	µg/Kg-dry	0.874	3/20/2013 15:19
Carbon disulfide	**3.0**	J	**0.41**	**5.6**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Carbon tetrachloride	U		0.23	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Chlorobenzene	U		0.25	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Chloroethane	U		0.63	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Chloroform	**0.73**	J	**0.29**	**5.6**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Chloromethane	U		0.34	11	µg/Kg-dry	0.874	3/20/2013 15:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-2
Collection Date: 3/15/2013 08:21 AM

Work Order: 1303495
Lab ID: 1303495-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
cis-1,3-Dichloropropene	U		0.20	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Cyclohexane	**1.9**	J	**0.36**	**5.6**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Dibromochloromethane	U		0.19	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Dichlorodifluoromethane	U		0.37	11	µg/Kg-dry	0.874	3/20/2013 15:19
Ethylbenzene	**0.30**	J	**0.22**	**5.6**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Isopropylbenzene	U		0.22	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
m,p-Xylene	**0.48**	J	**0.42**	**2.8**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Methyl acetate	U		0.90	11	µg/Kg-dry	0.874	3/20/2013 15:19
Methyl tert-butyl ether	U		0.28	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Methylcyclohexane	**2.2**	J	**0.31**	**11**	**µg/Kg-dry**	0.874	3/20/2013 15:19
Methylene chloride	U		0.32	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
o-Xylene	U		0.22	2.8	µg/Kg-dry	0.874	3/20/2013 15:19
Styrene	U		0.20	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Tetrachloroethene	U		0.33	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Toluene	**1.2**	J	**0.26**	**5.6**	**µg/Kg-dry**	0.874	3/20/2013 15:19
trans-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.874	3/20/2013 15:19
Trichloroethene	U		0.26	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Trichlorofluoromethane	U		1.3	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Vinyl chloride	U		0.34	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Xylenes, Total	U		0.64	5.6	µg/Kg-dry	0.874	3/20/2013 15:19
Surr: 1,2-Dichloroethane-d4	*122*	S		*70-120*	*%REC*	0.874	3/20/2013 15:19
Surr: 4-Bromofluorobenzene	*99.3*			*75-120*	*%REC*	0.874	3/20/2013 15:19
Surr: Dibromofluoromethane	*104*			*85-115*	*%REC*	0.874	3/20/2013 15:19
Surr: Toluene-d8	*101*			*85-120*	*%REC*	0.874	3/20/2013 15:19

MOISTURE Method: **A2540 G** Analyst: **KF**

Moisture	**22**	**0.025**	**0.050**	**% of sample**	1	3/18/2013 14:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-3
Collection Date: 3/15/2013 08:43 AM

Work Order: 1303495
Lab ID: 1303495-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method:	**SW8151**		Prep: SW8151M / 3/18/13		Analyst: **JD**
2,4,5-T	U		6.5	330	µg/Kg-dry	5	3/22/2013 11:52
2,4,5-TP (Silvex)	U		4.4	670	µg/Kg-dry	5	3/22/2013 11:52
2,4-D	U		4.7	330	µg/Kg-dry	5	3/22/2013 11:52
2,4-DB	U		22	330	µg/Kg-dry	5	3/22/2013 11:52
Dalapon	U		22	330	µg/Kg-dry	5	3/22/2013 11:52
Dicamba	U		22	330	µg/Kg-dry	5	3/22/2013 11:52
Dichlorprop	U		22	330	µg/Kg-dry	5	3/22/2013 11:52
Dinoseb	U		22	330	µg/Kg-dry	5	3/22/2013 11:52
MCPA	U		2,200	11,000	µg/Kg-dry	5	3/22/2013 11:52
MCPP	U		2,200	11,000	µg/Kg-dry	5	3/22/2013 11:52
Surr: DCAA	*29.0*	S		*30-150*	*%REC*	5	3/22/2013 11:52
PESTICIDES		Method:	**SW8081**		Prep: SW3541 / 3/19/13		Analyst: **JD**
4,4´-DDD	U		4.2	13	µg/Kg-dry	1	3/20/2013 20:22
4,4´-DDE	U		2.5	13	µg/Kg-dry	1	3/20/2013 20:22
4,4´-DDT	**7.0**	J	**3.0**	**13**	**µg/Kg-dry**	1	3/20/2013 20:22
Aldrin	U		1.2	13	µg/Kg-dry	1	3/20/2013 20:22
alpha-BHC	U		4.2	13	µg/Kg-dry	1	3/20/2013 20:22
alpha-Chlordane	U		3.6	13	µg/Kg-dry	1	3/20/2013 20:22
beta-BHC	U		4.9	13	µg/Kg-dry	1	3/20/2013 20:22
Chlordane, Technical	U		65	160	µg/Kg-dry	5	3/20/2013 17:00
delta-BHC	U		4.8	13	µg/Kg-dry	1	3/20/2013 20:22
Dieldrin	U		5.5	65	µg/Kg-dry	5	3/20/2013 17:00
Endosulfan I	U		8.5	65	µg/Kg-dry	5	3/20/2013 17:00
Endosulfan II	U		7.2	65	µg/Kg-dry	5	3/20/2013 17:00
Endosulfan sulfate	U		8.0	65	µg/Kg-dry	5	3/20/2013 17:00
Endrin	U		19	65	µg/Kg-dry	5	3/20/2013 17:00
Endrin aldehyde	U		16	65	µg/Kg-dry	5	3/20/2013 17:00
Endrin ketone	U		25	65	µg/Kg-dry	5	3/20/2013 17:00
gamma-BHC (Lindane)	U		6.0	13	µg/Kg-dry	1	3/20/2013 20:22
gamma-Chlordane	U		2.2	13	µg/Kg-dry	1	3/20/2013 20:22
Heptachlor	U		6.7	13	µg/Kg-dry	1	3/20/2013 20:22
Heptachlor epoxide	U		10	65	µg/Kg-dry	5	3/20/2013 17:00
Methoxychlor	U		16	65	µg/Kg-dry	5	3/20/2013 17:00
Toxaphene	U		76	390	µg/Kg-dry	5	3/20/2013 17:00
Surr: Decachlorobiphenyl	*100*			*45-135*	*%REC*	1	3/20/2013 20:22
Surr: Tetrachloro-m-xylene	*93.1*			*45-124*	*%REC*	1	3/20/2013 20:22
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/21/13		Analyst: **LR**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-3
Collection Date: 3/15/2013 08:43 AM

Work Order: 1303495
Lab ID: 1303495-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.050**		**0.00090**	**0.018**	**mg/Kg-dry**	1	3/21/2013 14:42
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/20/13		Analyst: **RH**
Arsenic	**8.2**		**0.071**	**0.53**	**mg/Kg-dry**	1	3/21/2013 08:01
Barium	**220**		**0.15**	**5.3**	**mg/Kg-dry**	10	3/21/2013 15:14
Cadmium	**0.36**		**0.0021**	**0.21**	**mg/Kg-dry**	1	3/21/2013 08:01
Chromium	**13**		**0.086**	**0.53**	**mg/Kg-dry**	1	3/21/2013 08:01
Lead	**42**		**0.0021**	**0.53**	**mg/Kg-dry**	1	3/21/2013 08:01
Selenium	**1.3**		**0.067**	**0.53**	**mg/Kg-dry**	1	3/21/2013 08:01
Silver	**0.044**	J	**0.0021**	**0.53**	**mg/Kg-dry**	1	3/21/2013 08:01
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
DRO (C10-C21)	**23**		**1.7**	**3.9**	**mg/Kg-dry**	1	3/21/2013 03:14
ORO (C21-C35)	**89**		**1.9**	**3.9**	**mg/Kg-dry**	1	3/21/2013 03:14
Surr: 4-Terphenyl-d14	*81.1*			*25-137*	*%REC*	1	3/21/2013 03:14
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
1,1`-Biphenyl	U		6.6	440	µg/Kg-dry	1	3/21/2013 03:14
2,4,5-Trichlorophenol	U		11	210	µg/Kg-dry	1	3/21/2013 03:14
2,4,6-Trichlorophenol	U		11	210	µg/Kg-dry	1	3/21/2013 03:14
2,4-Dichlorophenol	U		13	210	µg/Kg-dry	1	3/21/2013 03:14
2,4-Dimethylphenol	U		55	440	µg/Kg-dry	1	3/21/2013 03:14
2,4-Dinitrophenol	U		57	880	µg/Kg-dry	1	3/21/2013 03:14
2,4-Dinitrotoluene	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
2,6-Dinitrotoluene	U		13	210	µg/Kg-dry	1	3/21/2013 03:14
2-Chloronaphthalene	U		12	110	µg/Kg-dry	1	3/21/2013 03:14
2-Chlorophenol	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
2-Methylnaphthalene	U		13	110	µg/Kg-dry	1	3/21/2013 03:14
2-Methylphenol	U		13	210	µg/Kg-dry	1	3/21/2013 03:14
2-Nitroaniline	U		10	880	µg/Kg-dry	1	3/21/2013 03:14
2-Nitrophenol	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
3,3´-Dichlorobenzidine	U		13	880	µg/Kg-dry	1	3/21/2013 03:14
3-Nitroaniline	U		110	880	µg/Kg-dry	1	3/21/2013 03:14
4,6-Dinitro-2-methylphenol	U		64	440	µg/Kg-dry	1	3/21/2013 03:14
4-Bromophenyl phenyl ether	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
4-Chloro-3-methylphenol	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
4-Chloroaniline	U		17	880	µg/Kg-dry	1	3/21/2013 03:14
4-Chlorophenyl phenyl ether	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
4-Methylphenol	U		13	210	µg/Kg-dry	1	3/21/2013 03:14
4-Nitroaniline	U		20	880	µg/Kg-dry	1	3/21/2013 03:14
4-Nitrophenol	U		54	880	µg/Kg-dry	1	3/21/2013 03:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-3
Collection Date: 3/15/2013 08:43 AM

Work Order: 1303495
Lab ID: 1303495-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthene	**43**		**12**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Acenaphthylene	U		13	40	µg/Kg-dry	1	3/21/2013 03:14
Acetophenone	U		6.7	440	µg/Kg-dry	1	3/21/2013 03:14
Anthracene	**110**		**14**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Atrazine	U		14	440	µg/Kg-dry	1	3/21/2013 03:14
Benzaldehyde	U		17	440	µg/Kg-dry	1	3/21/2013 03:14
Benzo(a)anthracene	**360**		**16**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Benzo(a)pyrene	**280**		**21**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Benzo(b)fluoranthene	**460**		**22**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Benzo(g,h,i)perylene	**87**		**32**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Benzo(k)fluoranthene	**210**		**18**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Bis(2-chloroethoxy)methane	U		11	210	µg/Kg-dry	1	3/21/2013 03:14
Bis(2-chloroethyl)ether	U		11	210	µg/Kg-dry	1	3/21/2013 03:14
Bis(2-chloroisopropyl)ether	U		10	210	µg/Kg-dry	1	3/21/2013 03:14
Bis(2-ethylhexyl)phthalate	U		13	440	µg/Kg-dry	1	3/21/2013 03:14
Butyl benzyl phthalate	**52**	J	**19**	**210**	**µg/Kg-dry**	1	3/21/2013 03:14
Caprolactam	U		19	440	µg/Kg-dry	1	3/21/2013 03:14
Carbazole	U		15	210	µg/Kg-dry	1	3/21/2013 03:14
Chrysene	**360**		**15**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Dibenzo(a,h)anthracene	U		23	40	µg/Kg-dry	1	3/21/2013 03:14
Dibenzofuran	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
Diethyl phthalate	U		11	440	µg/Kg-dry	1	3/21/2013 03:14
Dimethyl phthalate	U		11	440	µg/Kg-dry	1	3/21/2013 03:14
Di-n-butyl phthalate	U		13	440	µg/Kg-dry	1	3/21/2013 03:14
Di-n-octyl phthalate	U		16	210	µg/Kg-dry	1	3/21/2013 03:14
Fluoranthene	**840**		**16**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Fluorene	**30**	J	**12**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Hexachlorobenzene	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
Hexachlorobutadiene	U		11	210	µg/Kg-dry	1	3/21/2013 03:14
Hexachlorocyclopentadiene	U		47	440	µg/Kg-dry	1	3/21/2013 03:14
Hexachloroethane	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
Indeno(1,2,3-cd)pyrene	**95**		**25**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Isophorone	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
Naphthalene	U		11	40	µg/Kg-dry	1	3/21/2013 03:14
Nitrobenzene	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
N-Nitrosodi-n-propylamine	U		12	210	µg/Kg-dry	1	3/21/2013 03:14
N-Nitrosodiphenylamine	U		80	210	µg/Kg-dry	1	3/21/2013 03:14
Pentachlorophenol	U		20	440	µg/Kg-dry	1	3/21/2013 03:14
Phenanthrene	**470**		**40**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Phenol	U		11	210	µg/Kg-dry	1	3/21/2013 03:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-3
Collection Date: 3/15/2013 08:43 AM

Work Order: 1303495
Lab ID: 1303495-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	**670**		**17**	**40**	**µg/Kg-dry**	1	3/21/2013 03:14
Surr: 2,4,6-Tribromophenol	*67.6*			*34-140*	*%REC*	1	3/21/2013 03:14
Surr: 2-Fluorobiphenyl	*61.5*			*12-100*	*%REC*	1	3/21/2013 03:14
Surr: 2-Fluorophenol	*80.3*			*33-117*	*%REC*	1	3/21/2013 03:14
Surr: 4-Terphenyl-d14	*81.1*			*25-137*	*%REC*	1	3/21/2013 03:14
Surr: Nitrobenzene-d5	*71.2*			*37-107*	*%REC*	1	3/21/2013 03:14
Surr: Phenol-d6	*78.2*			*40-106*	*%REC*	1	3/21/2013 03:14
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/18/13		Analyst: **RS**
GRO (C6-C10)	U		1,700		µg/Kg-dry	1	3/20/2013 04:53
Surr: Toluene-d8	*98.2*			*70-130*	*%REC*	1	3/20/2013 04:53
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.24	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,1,2,2-Tetrachloroethane	U		0.15	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,1,2-Trichloroethane	U		0.21	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,1,2-Trichlorotrifluoroethane	U		0.30	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,1-Dichloroethane	U		0.28	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,1-Dichloroethene	U		0.25	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,2,4-Trichlorobenzene	U		0.23	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,2-Dibromo-3-chloropropane	U		0.22	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,2-Dibromoethane	U		0.22	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,2-Dichlorobenzene	U		0.22	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,2-Dichloroethane	U		0.30	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,2-Dichloropropane	U		0.28	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,3-Dichlorobenzene	U		0.21	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
1,4-Dichlorobenzene	U		0.23	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
2-Butanone	**22**		**0.84**	**11**	**µg/Kg-dry**	0.812	3/20/2013 19:08
2-Hexanone	U		0.33	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
4-Methyl-2-pentanone	U		0.22	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Acetone	**75**		**1.3**	**13**	**µg/Kg-dry**	1	3/20/2013 04:53
Benzene	U		0.27	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Bromodichloromethane	U		0.22	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Bromoform	U		0.17	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Bromomethane	U		0.38	11	µg/Kg-dry	0.812	3/20/2013 19:08
Carbon disulfide	U		0.40	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Carbon tetrachloride	U		0.22	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Chlorobenzene	U		0.24	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Chloroethane	U		0.61	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Chloroform	**0.62**	J	**0.29**	**5.5**	**µg/Kg-dry**	0.812	3/20/2013 19:08
Chloromethane	U		0.33	11	µg/Kg-dry	0.812	3/20/2013 19:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-3
Collection Date: 3/15/2013 08:43 AM

Work Order: 1303495
Lab ID: 1303495-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.32	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
cis-1,3-Dichloropropene	U		0.20	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Cyclohexane	U		0.35	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Dibromochloromethane	U		0.18	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Dichlorodifluoromethane	U		0.36	11	µg/Kg-dry	0.812	3/20/2013 19:08
Ethylbenzene	U		0.21	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Isopropylbenzene	U		0.21	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
m,p-Xylene	U		0.41	2.7	µg/Kg-dry	0.812	3/20/2013 19:08
Methyl acetate	U		0.88	11	µg/Kg-dry	0.812	3/20/2013 19:08
Methyl tert-butyl ether	U		0.28	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Methylcyclohexane	U		0.30	11	µg/Kg-dry	0.812	3/20/2013 19:08
Methylene chloride	U		0.31	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
o-Xylene	U		0.22	2.7	µg/Kg-dry	0.812	3/20/2013 19:08
Styrene	U		0.20	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Tetrachloroethene	U		0.33	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Toluene	**0.27**	J	**0.26**	**5.5**	**µg/Kg-dry**	0.812	3/20/2013 19:08
trans-1,2-Dichloroethene	U		0.32	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.812	3/20/2013 19:08
Trichloroethene	U		0.25	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Trichlorofluoromethane	U		1.3	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Vinyl chloride	U		0.33	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Xylenes, Total	U		0.63	5.5	µg/Kg-dry	0.812	3/20/2013 19:08
Surr: 1,2-Dichloroethane-d4	*99.5*			*70-120*	*%REC*	1	3/20/2013 04:53
Surr: 1,2-Dichloroethane-d4	*119*			*70-120*	*%REC*	0.812	3/20/2013 19:08
Surr: 4-Bromofluorobenzene	*99.5*			*75-120*	*%REC*	1	3/20/2013 04:53
Surr: 4-Bromofluorobenzene	*103*			*75-120*	*%REC*	0.812	3/20/2013 19:08
Surr: Dibromofluoromethane	*98.1*			*85-115*	*%REC*	1	3/20/2013 04:53
Surr: Dibromofluoromethane	*101*			*85-115*	*%REC*	0.812	3/20/2013 19:08
Surr: Toluene-d8	*101*			*85-120*	*%REC*	1	3/20/2013 04:53
Surr: Toluene-d8	*98.7*			*85-120*	*%REC*	0.812	3/20/2013 19:08
MOISTURE		Method: **A2540 G**					Analyst: **KF**
Moisture	**26**		**0.025**	**0.050**	**% of sample**	1	3/18/2013 14:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-4
Collection Date: 3/15/2013 08:58 AM

Work Order: 1303495
Lab ID: 1303495-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/21/13		Analyst: **LR**
Mercury	**0.047**		**0.0011**	**0.023**	**mg/Kg-dry**	1	3/21/2013 14:50
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/20/13		Analyst: **RH**
Arsenic	**8.1**		**0.086**	**0.63**	**mg/Kg-dry**	1	3/21/2013 08:07
Barium	**230**		**0.18**	**6.3**	**mg/Kg-dry**	10	3/21/2013 15:26
Cadmium	**0.38**		**0.0025**	**0.25**	**mg/Kg-dry**	1	3/21/2013 08:07
Chromium	**14**		**0.10**	**0.63**	**mg/Kg-dry**	1	3/21/2013 08:07
Lead	**26**		**0.0025**	**0.63**	**mg/Kg-dry**	1	3/21/2013 08:07
Selenium	**1.5**		**0.081**	**0.63**	**mg/Kg-dry**	1	3/21/2013 08:07
Silver	**0.045**	J	**0.0025**	**0.63**	**mg/Kg-dry**	1	3/21/2013 08:07
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
DRO (C10-C21)	**25**		**1.9**	**4.4**	**mg/Kg-dry**	1	3/21/2013 03:43
ORO (C21-C35)	**76**		**2.1**	**4.4**	**mg/Kg-dry**	1	3/21/2013 03:43
Surr: 4-Terphenyl-d14	*89.8*			*25-137*	*%REC*	1	3/21/2013 03:43
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
1,1`-Biphenyl	U		7.5	500	µg/Kg-dry	1	3/21/2013 03:43
2,4,5-Trichlorophenol	U		12	240	µg/Kg-dry	1	3/21/2013 03:43
2,4,6-Trichlorophenol	U		12	240	µg/Kg-dry	1	3/21/2013 03:43
2,4-Dichlorophenol	U		15	240	µg/Kg-dry	1	3/21/2013 03:43
2,4-Dimethylphenol	U		62	500	µg/Kg-dry	1	3/21/2013 03:43
2,4-Dinitrophenol	U		65	1,000	µg/Kg-dry	1	3/21/2013 03:43
2,4-Dinitrotoluene	U		14	240	µg/Kg-dry	1	3/21/2013 03:43
2,6-Dinitrotoluene	U		14	240	µg/Kg-dry	1	3/21/2013 03:43
2-Chloronaphthalene	U		14	120	µg/Kg-dry	1	3/21/2013 03:43
2-Chlorophenol	U		14	240	µg/Kg-dry	1	3/21/2013 03:43
2-Methylnaphthalene	U		15	120	µg/Kg-dry	1	3/21/2013 03:43
2-Methylphenol	U		15	240	µg/Kg-dry	1	3/21/2013 03:43
2-Nitroaniline	U		12	1,000	µg/Kg-dry	1	3/21/2013 03:43
2-Nitrophenol	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
3,3´-Dichlorobenzidine	U		14	1,000	µg/Kg-dry	1	3/21/2013 03:43
3-Nitroaniline	U		120	1,000	µg/Kg-dry	1	3/21/2013 03:43
4,6-Dinitro-2-methylphenol	U		73	500	µg/Kg-dry	1	3/21/2013 03:43
4-Bromophenyl phenyl ether	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
4-Chloro-3-methylphenol	U		14	240	µg/Kg-dry	1	3/21/2013 03:43
4-Chloroaniline	U		19	1,000	µg/Kg-dry	1	3/21/2013 03:43
4-Chlorophenyl phenyl ether	U		14	240	µg/Kg-dry	1	3/21/2013 03:43
4-Methylphenol	U		15	240	µg/Kg-dry	1	3/21/2013 03:43
4-Nitroaniline	U		22	1,000	µg/Kg-dry	1	3/21/2013 03:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-4
Collection Date: 3/15/2013 08:58 AM

Work Order: 1303495
Lab ID: 1303495-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		62	1,000	µg/Kg-dry	1	3/21/2013 03:43
Acenaphthene	U		14	46	µg/Kg-dry	1	3/21/2013 03:43
Acenaphthylene	U		14	46	µg/Kg-dry	1	3/21/2013 03:43
Acetophenone	U		7.6	500	µg/Kg-dry	1	3/21/2013 03:43
Anthracene	U		15	46	µg/Kg-dry	1	3/21/2013 03:43
Atrazine	U		15	500	µg/Kg-dry	1	3/21/2013 03:43
Benzaldehyde	U		19	500	µg/Kg-dry	1	3/21/2013 03:43
Benzo(a)anthracene	**34**	J	**19**	**46**	**µg/Kg-dry**	1	3/21/2013 03:43
Benzo(a)pyrene	U		23	46	µg/Kg-dry	1	3/21/2013 03:43
Benzo(b)fluoranthene	**80**		**25**	**46**	**µg/Kg-dry**	1	3/21/2013 03:43
Benzo(g,h,i)perylene	U		36	46	µg/Kg-dry	1	3/21/2013 03:43
Benzo(k)fluoranthene	**30**	J	**21**	**46**	**µg/Kg-dry**	1	3/21/2013 03:43
Bis(2-chloroethoxy)methane	U		12	240	µg/Kg-dry	1	3/21/2013 03:43
Bis(2-chloroethyl)ether	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
Bis(2-chloroisopropyl)ether	U		12	240	µg/Kg-dry	1	3/21/2013 03:43
Bis(2-ethylhexyl)phthalate	U		15	500	µg/Kg-dry	1	3/21/2013 03:43
Butyl benzyl phthalate	U		21	240	µg/Kg-dry	1	3/21/2013 03:43
Caprolactam	U		22	500	µg/Kg-dry	1	3/21/2013 03:43
Carbazole	U		17	240	µg/Kg-dry	1	3/21/2013 03:43
Chrysene	**49**		**17**	**46**	**µg/Kg-dry**	1	3/21/2013 03:43
Dibenzo(a,h)anthracene	U		26	46	µg/Kg-dry	1	3/21/2013 03:43
Dibenzofuran	U		14	240	µg/Kg-dry	1	3/21/2013 03:43
Diethyl phthalate	U		13	500	µg/Kg-dry	1	3/21/2013 03:43
Dimethyl phthalate	U		13	500	µg/Kg-dry	1	3/21/2013 03:43
Di-n-butyl phthalate	U		15	500	µg/Kg-dry	1	3/21/2013 03:43
Di-n-octyl phthalate	U		19	240	µg/Kg-dry	1	3/21/2013 03:43
Fluoranthene	**85**		**18**	**46**	**µg/Kg-dry**	1	3/21/2013 03:43
Fluorene	U		13	46	µg/Kg-dry	1	3/21/2013 03:43
Hexachlorobenzene	U		14	240	µg/Kg-dry	1	3/21/2013 03:43
Hexachlorobutadiene	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
Hexachlorocyclopentadiene	U		53	500	µg/Kg-dry	1	3/21/2013 03:43
Hexachloroethane	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
Indeno(1,2,3-cd)pyrene	U		29	46	µg/Kg-dry	1	3/21/2013 03:43
Isophorone	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
Naphthalene	U		13	46	µg/Kg-dry	1	3/21/2013 03:43
Nitrobenzene	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
N-Nitrosodi-n-propylamine	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
N-Nitrosodiphenylamine	U		90	240	µg/Kg-dry	1	3/21/2013 03:43
Pentachlorophenol	U		22	500	µg/Kg-dry	1	3/21/2013 03:43
Phenanthrene	U		46	46	µg/Kg-dry	1	3/21/2013 03:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-4
Collection Date: 3/15/2013 08:58 AM

Work Order: 1303495
Lab ID: 1303495-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		13	240	µg/Kg-dry	1	3/21/2013 03:43
Pyrene	**66**		**19**	**46**	**µg/Kg-dry**	1	3/21/2013 03:43
Surr: 2,4,6-Tribromophenol	*78.3*			*34-140*	*%REC*	1	3/21/2013 03:43
Surr: 2-Fluorobiphenyl	*64.9*			*12-100*	*%REC*	1	3/21/2013 03:43
Surr: 2-Fluorophenol	*85.9*			*33-117*	*%REC*	1	3/21/2013 03:43
Surr: 4-Terphenyl-d14	*89.8*			*25-137*	*%REC*	1	3/21/2013 03:43
Surr: Nitrobenzene-d5	*74.2*			*37-107*	*%REC*	1	3/21/2013 03:43
Surr: Phenol-d6	*83.9*			*40-106*	*%REC*	1	3/21/2013 03:43
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/18/13		Analyst: **RS**
GRO (C6-C10)	U		1,900		µg/Kg-dry	1	3/20/2013 05:16
Surr: Toluene-d8	*97.8*			*70-130*	*%REC*	1	3/20/2013 05:16
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.29	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,1,2,2-Tetrachloroethane	U		0.19	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,1,2-Trichloroethane	U		0.26	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,1,2-Trichlorotrifluoroethane	U		0.37	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,1-Dichloroethane	U		0.34	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,1-Dichloroethene	U		0.30	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,2,4-Trichlorobenzene	U		0.28	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,2-Dibromo-3-chloropropane	U		0.26	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,2-Dibromoethane	U		0.27	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,2-Dichlorobenzene	U		0.27	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,2-Dichloroethane	U		0.37	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,2-Dichloropropane	U		0.35	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,3-Dichlorobenzene	U		0.25	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
1,4-Dichlorobenzene	U		0.28	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
2-Butanone	**24**		**1.0**	**13**	**µg/Kg-dry**	0.864	3/20/2013 16:14
2-Hexanone	U		0.40	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
4-Methyl-2-pentanone	U		0.26	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Acetone	**130**		**1.3**	**13**	**µg/Kg-dry**	0.864	3/20/2013 16:14
Benzene	U		0.33	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Bromodichloromethane	U		0.28	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Bromoform	U		0.21	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Bromomethane	U		0.47	13	µg/Kg-dry	0.864	3/20/2013 16:14
Carbon disulfide	U		0.49	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Carbon tetrachloride	U		0.27	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Chlorobenzene	U		0.30	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Chloroethane	U		0.75	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Chloroform	**0.79**	J	**0.35**	**6.7**	**µg/Kg-dry**	0.864	3/20/2013 16:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-4
Collection Date: 3/15/2013 08:58 AM

Work Order: 1303495
Lab ID: 1303495-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.41	13	µg/Kg-dry	0.864	3/20/2013 16:14
cis-1,2-Dichloroethene	U		0.40	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
cis-1,3-Dichloropropene	U		0.24	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Cyclohexane	U		0.43	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Dibromochloromethane	U		0.23	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Dichlorodifluoromethane	U		0.44	13	µg/Kg-dry	0.864	3/20/2013 16:14
Ethylbenzene	U		0.26	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Isopropylbenzene	U		0.26	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
m,p-Xylene	U		0.50	3.3	µg/Kg-dry	0.864	3/20/2013 16:14
Methyl acetate	U		1.1	13	µg/Kg-dry	0.864	3/20/2013 16:14
Methyl tert-butyl ether	U		0.34	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Methylcyclohexane	U		0.37	13	µg/Kg-dry	0.864	3/20/2013 16:14
Methylene chloride	U		0.38	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
o-Xylene	U		0.27	3.3	µg/Kg-dry	0.864	3/20/2013 16:14
Styrene	U		0.24	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Tetrachloroethene	U		0.40	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Toluene	**0.60**	J	**0.32**	**6.7**	**µg/Kg-dry**	0.864	3/20/2013 16:14
trans-1,2-Dichloroethene	U		0.39	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
trans-1,3-Dichloropropene	U		0.25	13	µg/Kg-dry	0.864	3/20/2013 16:14
Trichloroethene	U		0.31	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Trichlorofluoromethane	U		1.6	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Vinyl chloride	U		0.41	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Xylenes, Total	U		0.77	6.7	µg/Kg-dry	0.864	3/20/2013 16:14
Surr: 1,2-Dichloroethane-d4	*115*			*70-120*	*%REC*	0.864	3/20/2013 16:14
Surr: 4-Bromofluorobenzene	*103*			*75-120*	*%REC*	0.864	3/20/2013 16:14
Surr: Dibromofluoromethane	*103*			*85-115*	*%REC*	0.864	3/20/2013 16:14
Surr: Toluene-d8	*99.3*			*85-120*	*%REC*	0.864	3/20/2013 16:14
MOISTURE		Method:	**A2540 G**				Analyst: **KF**
Moisture	**35**		**0.025**	**0.050**	**% of sample**	1	3/18/2013 14:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-5
Collection Date: 3/15/2013 09:19 AM

Work Order: 1303495
Lab ID: 1303495-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method:	**SW8151**		Prep: SW8151M / 3/18/13		Analyst: **JD**
2,4,5-T	U		12	630	µg/Kg-dry	10	3/22/2013 12:07
2,4,5-TP (Silvex)	U		8.3	1,300	µg/Kg-dry	10	3/22/2013 12:07
2,4-D	U		8.9	630	µg/Kg-dry	10	3/22/2013 12:07
2,4-DB	U		41	630	µg/Kg-dry	10	3/22/2013 12:07
Dalapon	U		41	630	µg/Kg-dry	10	3/22/2013 12:07
Dicamba	U		41	630	µg/Kg-dry	10	3/22/2013 12:07
Dichlorprop	U		41	630	µg/Kg-dry	10	3/22/2013 12:07
Dinoseb	U		41	630	µg/Kg-dry	10	3/22/2013 12:07
MCPA	U		4,100	21,000	µg/Kg-dry	10	3/22/2013 12:07
MCPP	U		4,100	21,000	µg/Kg-dry	10	3/22/2013 12:07
Surr: DCAA	*12.0*	S		*30-150*	*%REC*	10	3/22/2013 12:07
PESTICIDES		Method:	**SW8081**		Prep: SW3541 / 3/19/13		Analyst: **JD**
4,4´-DDD	**11**	J	**3.9**	**12**	**µg/Kg-dry**	1	3/20/2013 20:38
4,4´-DDE	**55**		**2.4**	**12**	**µg/Kg-dry**	1	3/20/2013 20:38
4,4´-DDT	**19**		**2.8**	**12**	**µg/Kg-dry**	1	3/20/2013 20:38
Aldrin	U		1.1	12	µg/Kg-dry	1	3/20/2013 20:38
alpha-BHC	U		3.9	12	µg/Kg-dry	1	3/20/2013 20:38
alpha-Chlordane	U		3.4	12	µg/Kg-dry	1	3/20/2013 20:38
beta-BHC	U		4.6	12	µg/Kg-dry	1	3/20/2013 20:38
Chlordane, Technical	U		61	150	µg/Kg-dry	5	3/20/2013 17:16
delta-BHC	U		4.5	12	µg/Kg-dry	1	3/20/2013 20:38
Dieldrin	U		5.2	62	µg/Kg-dry	5	3/20/2013 17:16
Endosulfan I	U		8.0	62	µg/Kg-dry	5	3/20/2013 17:16
Endosulfan II	U		6.8	62	µg/Kg-dry	5	3/20/2013 17:16
Endosulfan sulfate	U		7.5	62	µg/Kg-dry	5	3/20/2013 17:16
Endrin	U		18	62	µg/Kg-dry	5	3/20/2013 17:16
Endrin aldehyde	U		15	62	µg/Kg-dry	5	3/20/2013 17:16
Endrin ketone	U		24	62	µg/Kg-dry	5	3/20/2013 17:16
gamma-BHC (Lindane)	U		5.7	12	µg/Kg-dry	1	3/20/2013 20:38
gamma-Chlordane	U		2.1	12	µg/Kg-dry	1	3/20/2013 20:38
Heptachlor	U		6.3	12	µg/Kg-dry	1	3/20/2013 20:38
Heptachlor epoxide	U		9.7	62	µg/Kg-dry	5	3/20/2013 17:16
Methoxychlor	U		15	62	µg/Kg-dry	5	3/20/2013 17:16
Toxaphene	U		72	370	µg/Kg-dry	5	3/20/2013 17:16
Surr: Decachlorobiphenyl	*111*			*45-135*	*%REC*	1	3/20/2013 20:38
Surr: Tetrachloro-m-xylene	*101*			*45-124*	*%REC*	1	3/20/2013 20:38
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/21/13		Analyst: **LR**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-5
Collection Date: 3/15/2013 09:19 AM

Work Order: 1303495
Lab ID: 1303495-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**3.4**		**0.044**	**0.87**	**mg/Kg-dry**	50	3/21/2013 15:14
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/20/13		Analyst: **RH**
Arsenic	**5.7**		**0.063**	**0.46**	**mg/Kg-dry**	1	3/21/2013 08:13
Barium	**160**		**0.013**	**0.46**	**mg/Kg-dry**	1	3/21/2013 08:13
Cadmium	**1.2**		**0.0019**	**0.19**	**mg/Kg-dry**	1	3/21/2013 08:13
Chromium	**9.3**		**0.076**	**0.46**	**mg/Kg-dry**	1	3/21/2013 08:13
Lead	**94**		**0.0019**	**0.46**	**mg/Kg-dry**	1	3/21/2013 08:13
Selenium	**0.81**		**0.059**	**0.46**	**mg/Kg-dry**	1	3/21/2013 08:13
Silver	**0.068**	J	**0.0019**	**0.46**	**mg/Kg-dry**	1	3/21/2013 08:13
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
DRO (C10-C21)	**92**		**1.6**	**3.7**	**mg/Kg-dry**	1	3/21/2013 04:12
ORO (C21-C35)	**390**		**1.8**	**3.7**	**mg/Kg-dry**	1	3/21/2013 04:12
Surr: 4-Terphenyl-d14	*98.8*			*25-137*	*%REC*	20	3/21/2013 15:57
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
1,1`-Biphenyl	**96**	J	**6.3**	**420**	**µg/Kg-dry**	1	3/21/2013 04:12
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	3/21/2013 04:12
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	3/21/2013 04:12
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	3/21/2013 04:12
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	3/21/2013 04:12
2,4-Dinitrophenol	U		54	840	µg/Kg-dry	1	3/21/2013 04:12
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	3/21/2013 04:12
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	3/21/2013 04:12
2-Chlorophenol	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
2-Methylnaphthalene	**240**		**12**	**100**	**µg/Kg-dry**	1	3/21/2013 04:12
2-Methylphenol	U		12	200	µg/Kg-dry	1	3/21/2013 04:12
2-Nitroaniline	U		9.7	840	µg/Kg-dry	1	3/21/2013 04:12
2-Nitrophenol	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
3,3´-Dichlorobenzidine	U		12	840	µg/Kg-dry	1	3/21/2013 04:12
3-Nitroaniline	U		100	840	µg/Kg-dry	1	3/21/2013 04:12
4,6-Dinitro-2-methylphenol	U		61	420	µg/Kg-dry	1	3/21/2013 04:12
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
4-Chloroaniline	U		16	840	µg/Kg-dry	1	3/21/2013 04:12
4-Chlorophenyl phenyl ether	U		12	200	µg/Kg-dry	1	3/21/2013 04:12
4-Methylphenol	**220**		**12**	**200**	**µg/Kg-dry**	1	3/21/2013 04:12
4-Nitroaniline	U		19	840	µg/Kg-dry	1	3/21/2013 04:12
4-Nitrophenol	U		51	840	µg/Kg-dry	1	3/21/2013 04:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-5
Collection Date: 3/15/2013 09:19 AM

Work Order: 1303495
Lab ID: 1303495-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthene	**3,900**		**230**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Acenaphthylene	**30**	J	**12**	**38**	**µg/Kg-dry**	1	3/21/2013 04:12
Acetophenone	U		6.3	420	µg/Kg-dry	1	3/21/2013 04:12
Anthracene	**5,900**		**260**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Atrazine	U		13	420	µg/Kg-dry	1	3/21/2013 04:12
Benzaldehyde	U		16	420	µg/Kg-dry	1	3/21/2013 04:12
Benzo(a)anthracene	**12,000**		**310**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Benzo(a)pyrene	**9,700**		**390**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Benzo(b)fluoranthene	**12,000**		**410**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Benzo(g,h,i)perylene	**2,200**		**30**	**38**	**µg/Kg-dry**	1	3/21/2013 04:12
Benzo(k)fluoranthene	**7,100**		**350**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	3/21/2013 04:12
Bis(2-chloroethyl)ether	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
Bis(2-chloroisopropyl)ether	U		9.9	200	µg/Kg-dry	1	3/21/2013 04:12
Bis(2-ethylhexyl)phthalate	U		13	420	µg/Kg-dry	1	3/21/2013 04:12
Butyl benzyl phthalate	**94**	J	**18**	**200**	**µg/Kg-dry**	1	3/21/2013 04:12
Caprolactam	U		18	420	µg/Kg-dry	1	3/21/2013 04:12
Carbazole	U		15	200	µg/Kg-dry	1	3/21/2013 04:12
Chrysene	**12,000**		**290**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Dibenzo(a,h)anthracene	**1,300**		**22**	**38**	**µg/Kg-dry**	1	3/21/2013 04:12
Dibenzofuran	**1,700**		**12**	**200**	**µg/Kg-dry**	1	3/21/2013 04:12
Diethyl phthalate	U		11	420	µg/Kg-dry	1	3/21/2013 04:12
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	3/21/2013 04:12
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	3/21/2013 04:12
Di-n-octyl phthalate	U		16	200	µg/Kg-dry	1	3/21/2013 04:12
Fluoranthene	**31,000**		**300**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Fluorene	U		11	38	µg/Kg-dry	1	3/21/2013 04:12
Hexachlorobenzene	U		12	200	µg/Kg-dry	1	3/21/2013 04:12
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
Hexachlorocyclopentadiene	U		44	420	µg/Kg-dry	1	3/21/2013 04:12
Hexachloroethane	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
Indeno(1,2,3-cd)pyrene	**2,500**		**24**	**38**	**µg/Kg-dry**	1	3/21/2013 04:12
Isophorone	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
Naphthalene	**240**		**11**	**38**	**µg/Kg-dry**	1	3/21/2013 04:12
Nitrobenzene	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	3/21/2013 04:12
N-Nitrosodiphenylamine	U		76	200	µg/Kg-dry	1	3/21/2013 04:12
Pentachlorophenol	U		19	420	µg/Kg-dry	1	3/21/2013 04:12
Phenanthrene	**24,000**		**760**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Phenol	U		11	200	µg/Kg-dry	1	3/21/2013 04:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-5
Collection Date: 3/15/2013 09:19 AM

Work Order: 1303495
Lab ID: 1303495-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	**27,000**		**320**	**760**	**µg/Kg-dry**	20	3/21/2013 15:57
Surr: 2,4,6-Tribromophenol	*92.5*			*34-140*	*%REC*	1	3/21/2013 04:12
Surr: 2-Fluorobiphenyl	*66.8*			*12-100*	*%REC*	1	3/21/2013 04:12
Surr: 2-Fluorophenol	*82.5*			*33-117*	*%REC*	1	3/21/2013 04:12
Surr: 4-Terphenyl-d14	*98.8*			*25-137*	*%REC*	20	3/21/2013 15:57
Surr: Nitrobenzene-d5	*74.2*			*37-107*	*%REC*	1	3/21/2013 04:12
Surr: Phenol-d6	*83.6*			*40-106*	*%REC*	1	3/21/2013 04:12
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/18/13		Analyst: **RS**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/20/2013 05:39
Surr: Toluene-d8	*99.0*			*70-130*	*%REC*	1	3/20/2013 05:39
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,1,2,2-Tetrachloroethane	U		0.14	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,1,2-Trichloroethane	U		0.20	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,1,2-Trichlorotrifluoroethane	U		0.28	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,1-Dichloroethane	U		0.26	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,1-Dichloroethene	U		0.23	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,2,4-Trichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,2-Dibromo-3-chloropropane	U		0.20	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,2-Dibromoethane	U		0.21	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,2-Dichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,2-Dichloroethane	U		0.28	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,2-Dichloropropane	U		0.26	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,3-Dichlorobenzene	U		0.19	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
1,4-Dichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
2-Butanone	**13**		**0.78**	**10**	**µg/Kg-dry**	0.792	3/20/2013 16:42
2-Hexanone	U		0.31	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
4-Methyl-2-pentanone	U		0.20	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Acetone	**97**		**0.96**	**10**	**µg/Kg-dry**	0.792	3/20/2013 16:42
Benzene	U		0.25	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Bromodichloromethane	U		0.21	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Bromoform	U		0.16	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Bromomethane	U		0.36	10	µg/Kg-dry	0.792	3/20/2013 16:42
Carbon disulfide	**0.85**	J	**0.38**	**5.1**	**µg/Kg-dry**	0.792	3/20/2013 16:42
Carbon tetrachloride	U		0.21	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Chlorobenzene	U		0.23	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Chloroethane	U		0.57	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Chloroform	**0.63**	J	**0.27**	**5.1**	**µg/Kg-dry**	0.792	3/20/2013 16:42
Chloromethane	U		0.31	10	µg/Kg-dry	0.792	3/20/2013 16:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-5
Collection Date: 3/15/2013 09:19 AM

Work Order: 1303495
Lab ID: 1303495-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.30	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
cis-1,3-Dichloropropene	U		0.18	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Cyclohexane	U		0.33	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Dibromochloromethane	U		0.17	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Dichlorodifluoromethane	U		0.34	10	µg/Kg-dry	0.792	3/20/2013 16:42
Ethylbenzene	U		0.20	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Isopropylbenzene	U		0.20	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
m,p-Xylene	U		0.38	2.6	µg/Kg-dry	0.792	3/20/2013 16:42
Methyl acetate	U		0.82	10	µg/Kg-dry	0.792	3/20/2013 16:42
Methyl tert-butyl ether	U		0.26	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Methylcyclohexane	U		0.28	10	µg/Kg-dry	0.792	3/20/2013 16:42
Methylene chloride	U		0.29	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
o-Xylene	U		0.20	2.6	µg/Kg-dry	0.792	3/20/2013 16:42
Styrene	U		0.19	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Tetrachloroethene	U		0.31	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Toluene	**0.35**	J	**0.24**	**5.1**	**µg/Kg-dry**	0.792	3/20/2013 16:42
trans-1,2-Dichloroethene	U		0.30	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.792	3/20/2013 16:42
Trichloroethene	U		0.24	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Trichlorofluoromethane	U		1.2	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Vinyl chloride	U		0.31	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Xylenes, Total	U		0.59	5.1	µg/Kg-dry	0.792	3/20/2013 16:42
Surr: 1,2-Dichloroethane-d4	*120*			*70-120*	*%REC*	0.792	3/20/2013 16:42
Surr: 4-Bromofluorobenzene	*106*			*75-120*	*%REC*	0.792	3/20/2013 16:42
Surr: Dibromofluoromethane	*106*			*85-115*	*%REC*	0.792	3/20/2013 16:42
Surr: Toluene-d8	*99.2*			*85-120*	*%REC*	0.792	3/20/2013 16:42

MOISTURE Method: **A2540 G** Analyst: **KF**

Moisture	**22**	**0.025**	**0.050**	**% of sample**	1	3/18/2013 14:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-6
Collection Date: 3/15/2013 09:46 AM

Work Order: 1303495
Lab ID: 1303495-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method:	**SW8151**		Prep: SW8151M / 3/18/13		Analyst: **JD**
2,4,5-T	U		6.8	350	µg/Kg-dry	5	3/22/2013 12:22
2,4,5-TP (Silvex)	U		4.6	690	µg/Kg-dry	5	3/22/2013 12:22
2,4-D	U		5.0	350	µg/Kg-dry	5	3/22/2013 12:22
2,4-DB	U		23	350	µg/Kg-dry	5	3/22/2013 12:22
Dalapon	U		23	350	µg/Kg-dry	5	3/22/2013 12:22
Dicamba	U		23	350	µg/Kg-dry	5	3/22/2013 12:22
Dichlorprop	U		23	350	µg/Kg-dry	5	3/22/2013 12:22
Dinoseb	U		23	350	µg/Kg-dry	5	3/22/2013 12:22
MCPA	U		2,300	12,000	µg/Kg-dry	5	3/22/2013 12:22
MCPP	U		2,300	12,000	µg/Kg-dry	5	3/22/2013 12:22
Surr: DCAA	*28.0*	S		*30-150*	*%REC*	5	3/22/2013 12:22
PESTICIDES		Method:	**SW8081**		Prep: SW3541 / 3/19/13		Analyst: **JD**
4,4´-DDD	U		4.3	13	µg/Kg-dry	1	3/20/2013 20:53
4,4´-DDE	**5.3**	J	**2.6**	**13**	**µg/Kg-dry**	1	3/20/2013 20:53
4,4´-DDT	**6.7**	J	**3.1**	**13**	**µg/Kg-dry**	1	3/20/2013 20:53
Aldrin	U		1.2	13	µg/Kg-dry	1	3/20/2013 20:53
alpha-BHC	U		4.3	13	µg/Kg-dry	1	3/20/2013 20:53
alpha-Chlordane	U		3.7	13	µg/Kg-dry	1	3/20/2013 20:53
beta-BHC	U		5.1	13	µg/Kg-dry	1	3/20/2013 20:53
Chlordane, Technical	U		66	170	µg/Kg-dry	5	3/20/2013 17:31
delta-BHC	U		4.9	13	µg/Kg-dry	1	3/20/2013 20:53
Dieldrin	U		5.7	67	µg/Kg-dry	5	3/20/2013 17:31
Endosulfan I	U		8.7	67	µg/Kg-dry	5	3/20/2013 17:31
Endosulfan II	U		7.4	67	µg/Kg-dry	5	3/20/2013 17:31
Endosulfan sulfate	U		8.2	67	µg/Kg-dry	5	3/20/2013 17:31
Endrin	U		19	67	µg/Kg-dry	5	3/20/2013 17:31
Endrin aldehyde	U		16	67	µg/Kg-dry	5	3/20/2013 17:31
Endrin ketone	U		26	67	µg/Kg-dry	5	3/20/2013 17:31
gamma-BHC (Lindane)	U		6.2	13	µg/Kg-dry	1	3/20/2013 20:53
gamma-Chlordane	U		2.2	13	µg/Kg-dry	1	3/20/2013 20:53
Heptachlor	U		6.9	13	µg/Kg-dry	1	3/20/2013 20:53
Heptachlor epoxide	U		11	67	µg/Kg-dry	5	3/20/2013 17:31
Methoxychlor	U		16	67	µg/Kg-dry	5	3/20/2013 17:31
Toxaphene	U		78	400	µg/Kg-dry	5	3/20/2013 17:31
Surr: Decachlorobiphenyl	*113*			*45-135*	*%REC*	1	3/20/2013 20:53
Surr: Tetrachloro-m-xylene	*115*			*45-124*	*%REC*	1	3/20/2013 20:53
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/21/13		Analyst: **LR**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-6
Collection Date: 3/15/2013 09:46 AM

Work Order: 1303495
Lab ID: 1303495-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.22**		**0.00098**	**0.020**	**mg/Kg-dry**	1	3/21/2013 15:16
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/20/13		Analyst: **RH**
Arsenic	**6.2**		**0.070**	**0.52**	**mg/Kg-dry**	1	3/21/2013 08:19
Barium	**180**		**0.014**	**0.52**	**mg/Kg-dry**	1	3/21/2013 08:19
Cadmium	**3.9**		**0.0021**	**0.21**	**mg/Kg-dry**	1	3/21/2013 08:19
Chromium	**12**		**0.085**	**0.52**	**mg/Kg-dry**	1	3/21/2013 08:19
Lead	**180**		**0.021**	**5.2**	**mg/Kg-dry**	10	3/21/2013 15:32
Selenium	**1.2**		**0.066**	**0.52**	**mg/Kg-dry**	1	3/21/2013 08:19
Silver	**0.21**	J	**0.0021**	**0.52**	**mg/Kg-dry**	1	3/21/2013 08:19
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
DRO (C10-C21)	**32**		**1.7**	**4.1**	**mg/Kg-dry**	1	3/21/2013 04:41
ORO (C21-C35)	**70**		**1.9**	**4.1**	**mg/Kg-dry**	1	3/21/2013 04:41
Surr: 4-Terphenyl-d14	*85.2*			*25-137*	*%REC*	1	3/21/2013 04:41
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/20/13		Analyst: **RM**
1,1`-Biphenyl	U		6.9	460	µg/Kg-dry	1	3/21/2013 04:41
2,4,5-Trichlorophenol	U		11	220	µg/Kg-dry	1	3/21/2013 04:41
2,4,6-Trichlorophenol	U		11	220	µg/Kg-dry	1	3/21/2013 04:41
2,4-Dichlorophenol	U		14	220	µg/Kg-dry	1	3/21/2013 04:41
2,4-Dimethylphenol	U		57	460	µg/Kg-dry	1	3/21/2013 04:41
2,4-Dinitrophenol	U		59	920	µg/Kg-dry	1	3/21/2013 04:41
2,4-Dinitrotoluene	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
2,6-Dinitrotoluene	U		13	220	µg/Kg-dry	1	3/21/2013 04:41
2-Chloronaphthalene	U		13	110	µg/Kg-dry	1	3/21/2013 04:41
2-Chlorophenol	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
2-Methylnaphthalene	**150**		**14**	**110**	**µg/Kg-dry**	1	3/21/2013 04:41
2-Methylphenol	U		13	220	µg/Kg-dry	1	3/21/2013 04:41
2-Nitroaniline	U		11	920	µg/Kg-dry	1	3/21/2013 04:41
2-Nitrophenol	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
3,3´-Dichlorobenzidine	U		13	920	µg/Kg-dry	1	3/21/2013 04:41
3-Nitroaniline	U		110	920	µg/Kg-dry	1	3/21/2013 04:41
4,6-Dinitro-2-methylphenol	U		67	460	µg/Kg-dry	1	3/21/2013 04:41
4-Bromophenyl phenyl ether	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
4-Chloro-3-methylphenol	U		13	220	µg/Kg-dry	1	3/21/2013 04:41
4-Chloroaniline	U		18	920	µg/Kg-dry	1	3/21/2013 04:41
4-Chlorophenyl phenyl ether	U		13	220	µg/Kg-dry	1	3/21/2013 04:41
4-Methylphenol	U		14	220	µg/Kg-dry	1	3/21/2013 04:41
4-Nitroaniline	U		21	920	µg/Kg-dry	1	3/21/2013 04:41
4-Nitrophenol	U		56	920	µg/Kg-dry	1	3/21/2013 04:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-6
Collection Date: 3/15/2013 09:46 AM

Work Order: 1303495
Lab ID: 1303495-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthene	U		13	42	µg/Kg-dry	1	3/21/2013 04:41
Acenaphthylene	U		13	42	µg/Kg-dry	1	3/21/2013 04:41
Acetophenone	U		7.0	460	µg/Kg-dry	1	3/21/2013 04:41
Anthracene	**33**	J	**14**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Atrazine	U		14	460	µg/Kg-dry	1	3/21/2013 04:41
Benzaldehyde	U		18	460	µg/Kg-dry	1	3/21/2013 04:41
Benzo(a)anthracene	**140**		**17**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Benzo(a)pyrene	**130**		**22**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Benzo(b)fluoranthene	**240**		**22**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Benzo(g,h,i)perylene	**55**		**33**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Benzo(k)fluoranthene	**100**		**19**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Bis(2-chloroethoxy)methane	U		11	220	µg/Kg-dry	1	3/21/2013 04:41
Bis(2-chloroethyl)ether	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
Bis(2-chloroisopropyl)ether	U		11	220	µg/Kg-dry	1	3/21/2013 04:41
Bis(2-ethylhexyl)phthalate	U		14	460	µg/Kg-dry	1	3/21/2013 04:41
Butyl benzyl phthalate	**110**	J	**19**	**220**	**µg/Kg-dry**	1	3/21/2013 04:41
Caprolactam	U		20	460	µg/Kg-dry	1	3/21/2013 04:41
Carbazole	U		16	220	µg/Kg-dry	1	3/21/2013 04:41
Chrysene	**160**		**16**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Dibenzo(a,h)anthracene	U		24	42	µg/Kg-dry	1	3/21/2013 04:41
Dibenzofuran	**59**	J	**13**	**220**	**µg/Kg-dry**	1	3/21/2013 04:41
Diethyl phthalate	U		12	460	µg/Kg-dry	1	3/21/2013 04:41
Dimethyl phthalate	U		12	460	µg/Kg-dry	1	3/21/2013 04:41
Di-n-butyl phthalate	U		14	460	µg/Kg-dry	1	3/21/2013 04:41
Di-n-octyl phthalate	U		17	220	µg/Kg-dry	1	3/21/2013 04:41
Fluoranthene	**310**		**17**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Fluorene	U		12	42	µg/Kg-dry	1	3/21/2013 04:41
Hexachlorobenzene	U		13	220	µg/Kg-dry	1	3/21/2013 04:41
Hexachlorobutadiene	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
Hexachlorocyclopentadiene	U		49	460	µg/Kg-dry	1	3/21/2013 04:41
Hexachloroethane	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
Indeno(1,2,3-cd)pyrene	**56**		**26**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Isophorone	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
Naphthalene	**76**		**12**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Nitrobenzene	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
N-Nitrosodi-n-propylamine	U		12	220	µg/Kg-dry	1	3/21/2013 04:41
N-Nitrosodiphenylamine	U		83	220	µg/Kg-dry	1	3/21/2013 04:41
Pentachlorophenol	U		21	460	µg/Kg-dry	1	3/21/2013 04:41
Phenanthrene	**260**		**42**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Phenol	U		12	220	µg/Kg-dry	1	3/21/2013 04:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-6
Collection Date: 3/15/2013 09:46 AM

Work Order: 1303495
Lab ID: 1303495-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	**260**		**17**	**42**	**µg/Kg-dry**	1	3/21/2013 04:41
Surr: 2,4,6-Tribromophenol	*69.7*			*34-140*	*%REC*	1	3/21/2013 04:41
Surr: 2-Fluorobiphenyl	*64.3*			*12-100*	*%REC*	1	3/21/2013 04:41
Surr: 2-Fluorophenol	*82.8*			*33-117*	*%REC*	1	3/21/2013 04:41
Surr: 4-Terphenyl-d14	*85.2*			*25-137*	*%REC*	1	3/21/2013 04:41
Surr: Nitrobenzene-d5	*73.0*			*37-107*	*%REC*	1	3/21/2013 04:41
Surr: Phenol-d6	*81.5*			*40-106*	*%REC*	1	3/21/2013 04:41
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/18/13		Analyst: **RS**
GRO (C6-C10)	U		1,800		µg/Kg-dry	1	3/20/2013 06:02
Surr: Toluene-d8	*99.0*			*70-130*	*%REC*	1	3/20/2013 06:02
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.28	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,1,2,2-Tetrachloroethane	U		0.18	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,1,2-Trichloroethane	U		0.24	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,1,2-Trichlorotrifluoroethane	U		0.35	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,1-Dichloroethane	U		0.32	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,1-Dichloroethene	U		0.28	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,2,4-Trichlorobenzene	U		0.26	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,2-Dibromo-3-chloropropane	U		0.25	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,2-Dibromoethane	U		0.26	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,2-Dichlorobenzene	U		0.26	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,2-Dichloroethane	U		0.35	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,2-Dichloropropane	U		0.33	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,3-Dichlorobenzene	U		0.24	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
1,4-Dichlorobenzene	U		0.26	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
2-Butanone	**18**		**0.97**	**13**	**µg/Kg-dry**	0.899	3/21/2013 16:00
2-Hexanone	U		0.38	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
4-Methyl-2-pentanone	U		0.25	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Acetone	U		1.3	14	µg/Kg-dry	1	3/20/2013 06:02
Benzene	U		0.31	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Bromodichloromethane	U		0.26	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Bromoform	U		0.19	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Bromomethane	U		0.44	13	µg/Kg-dry	0.899	3/21/2013 16:00
Carbon disulfide	U		0.46	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Carbon tetrachloride	U		0.26	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Chlorobenzene	U		0.28	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Chloroethane	U		0.71	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Chloroform	**0.71**	J	**0.33**	**6.3**	**µg/Kg-dry**	0.899	3/21/2013 16:00
Chloromethane	U		0.39	13	µg/Kg-dry	0.899	3/21/2013 16:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: SS-6
Collection Date: 3/15/2013 09:46 AM

Work Order: 1303495
Lab ID: 1303495-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.37	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
cis-1,3-Dichloropropene	U		0.23	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Cyclohexane	U		0.40	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Dibromochloromethane	U		0.21	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Dichlorodifluoromethane	U		0.42	13	µg/Kg-dry	0.899	3/21/2013 16:00
Ethylbenzene	U		0.24	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Isopropylbenzene	U		0.24	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
m,p-Xylene	U		0.48	3.1	µg/Kg-dry	0.899	3/21/2013 16:00
Methyl acetate	U		1.0	13	µg/Kg-dry	0.899	3/21/2013 16:00
Methyl tert-butyl ether	U		0.32	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Methylcyclohexane	U		0.35	13	µg/Kg-dry	0.899	3/21/2013 16:00
Methylene chloride	U		0.36	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
o-Xylene	U		0.25	3.1	µg/Kg-dry	0.899	3/21/2013 16:00
Styrene	U		0.23	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Tetrachloroethene	U		0.38	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Toluene	U		0.30	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
trans-1,2-Dichloroethene	U		0.37	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
trans-1,3-Dichloropropene	U		0.23	13	µg/Kg-dry	0.899	3/21/2013 16:00
Trichloroethene	U		0.29	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Trichlorofluoromethane	U		1.5	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Vinyl chloride	U		0.38	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Xylenes, Total	U		0.73	6.3	µg/Kg-dry	0.899	3/21/2013 16:00
Surr: 1,2-Dichloroethane-d4	*98.6*			*70-120*	*%REC*	1	3/20/2013 06:02
Surr: 1,2-Dichloroethane-d4	*115*			*70-120*	*%REC*	0.899	3/21/2013 16:00
Surr: 4-Bromofluorobenzene	*99.7*			*75-120*	*%REC*	1	3/20/2013 06:02
Surr: 4-Bromofluorobenzene	*104*			*75-120*	*%REC*	0.899	3/21/2013 16:00
Surr: Dibromofluoromethane	*95.4*			*85-115*	*%REC*	1	3/20/2013 06:02
Surr: Dibromofluoromethane	*100*			*85-115*	*%REC*	0.899	3/21/2013 16:00
Surr: Toluene-d8	*101*			*85-120*	*%REC*	1	3/20/2013 06:02
Surr: Toluene-d8	*95.8*			*85-120*	*%REC*	0.899	3/21/2013 16:00
MOISTURE		Method: **A2540 G**					Analyst: **KF**
Moisture	**29**		**0.025**	**0.050**	**% of sample**	1	3/18/2013 14:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: Trip Blank
Collection Date: 3/15/2013

Work Order: 1303495
Lab ID: 1303495-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/18/13		Analyst: **RS**
GRO (C6-C10)	U		1,200		µg/Kg	1	3/20/2013 06:25
Surr: Toluene-d8	*98.6*			*70-130*	*%REC*	1	3/20/2013 06:25
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.0	µg/Kg	1	3/20/2013 11:07
1,1,2,2-Tetrachloroethane	U		0.14	5.0	µg/Kg	1	3/20/2013 11:07
1,1,2-Trichloroethane	U		0.19	5.0	µg/Kg	1	3/20/2013 11:07
1,1,2-Trichlorotrifluoroethane	U		0.28	5.0	µg/Kg	1	3/20/2013 11:07
1,1-Dichloroethane	U		0.26	5.0	µg/Kg	1	3/20/2013 11:07
1,1-Dichloroethene	U		0.23	5.0	µg/Kg	1	3/20/2013 11:07
1,2,4-Trichlorobenzene	U		0.21	5.0	µg/Kg	1	3/20/2013 11:07
1,2-Dibromo-3-chloropropane	U		0.20	5.0	µg/Kg	1	3/20/2013 11:07
1,2-Dibromoethane	U		0.20	5.0	µg/Kg	1	3/20/2013 11:07
1,2-Dichlorobenzene	U		0.20	5.0	µg/Kg	1	3/20/2013 11:07
1,2-Dichloroethane	U		0.28	5.0	µg/Kg	1	3/20/2013 11:07
1,2-Dichloropropane	U		0.26	5.0	µg/Kg	1	3/20/2013 11:07
1,3-Dichlorobenzene	U		0.19	5.0	µg/Kg	1	3/20/2013 11:07
1,4-Dichlorobenzene	U		0.21	5.0	µg/Kg	1	3/20/2013 11:07
2-Butanone	U		0.77	10	µg/Kg	1	3/20/2013 11:07
2-Hexanone	U		0.30	5.0	µg/Kg	1	3/20/2013 11:07
4-Methyl-2-pentanone	U		0.20	5.0	µg/Kg	1	3/20/2013 11:07
Acetone	U		0.94	10	µg/Kg	1	3/20/2013 11:07
Benzene	U		0.25	5.0	µg/Kg	1	3/20/2013 11:07
Bromodichloromethane	U		0.21	5.0	µg/Kg	1	3/20/2013 11:07
Bromoform	U		0.15	5.0	µg/Kg	1	3/20/2013 11:07
Bromomethane	U		0.35	10	µg/Kg	1	3/20/2013 11:07
Carbon disulfide	U		0.37	5.0	µg/Kg	1	3/20/2013 11:07
Carbon tetrachloride	U		0.20	5.0	µg/Kg	1	3/20/2013 11:07
Chlorobenzene	U		0.22	5.0	µg/Kg	1	3/20/2013 11:07
Chloroethane	U		0.56	5.0	µg/Kg	1	3/20/2013 11:07
Chloroform	**0.55**	J	**0.26**	**5.0**	**µg/Kg**	1	3/20/2013 11:07
Chloromethane	U		0.31	10	µg/Kg	1	3/20/2013 11:07
cis-1,2-Dichloroethene	U		0.30	5.0	µg/Kg	1	3/20/2013 11:07
cis-1,3-Dichloropropene	U		0.18	5.0	µg/Kg	1	3/20/2013 11:07
Cyclohexane	U		0.32	5.0	µg/Kg	1	3/20/2013 11:07
Dibromochloromethane	U		0.17	5.0	µg/Kg	1	3/20/2013 11:07
Dichlorodifluoromethane	U		0.33	10	µg/Kg	1	3/20/2013 11:07
Ethylbenzene	U		0.19	5.0	µg/Kg	1	3/20/2013 11:07
Isopropylbenzene	U		0.19	5.0	µg/Kg	1	3/20/2013 11:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *25-Mar-13*

Client: Tetra Tech
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13
Sample ID: Trip Blank
Collection Date: 3/15/2013

Work Order: 1303495
Lab ID: 1303495-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
m,p-Xylene	U		0.38	2.5	µg/Kg	1	3/20/2013 11:07
Methyl acetate	U		0.80	10	µg/Kg	1	3/20/2013 11:07
Methyl tert-butyl ether	U		0.25	5.0	µg/Kg	1	3/20/2013 11:07
Methylcyclohexane	U		0.28	10	µg/Kg	1	3/20/2013 11:07
Methylene chloride	U		0.28	5.0	µg/Kg	1	3/20/2013 11:07
o-Xylene	U		0.20	2.5	µg/Kg	1	3/20/2013 11:07
Styrene	U		0.18	5.0	µg/Kg	1	3/20/2013 11:07
Tetrachloroethene	U		0.30	5.0	µg/Kg	1	3/20/2013 11:07
Toluene	**0.35**	J	**0.24**	**5.0**	**µg/Kg**	1	3/20/2013 11:07
trans-1,2-Dichloroethene	U		0.29	5.0	µg/Kg	1	3/20/2013 11:07
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg	1	3/20/2013 11:07
Trichloroethene	U		0.23	5.0	µg/Kg	1	3/20/2013 11:07
Trichlorofluoromethane	U		1.2	5.0	µg/Kg	1	3/20/2013 11:07
Vinyl chloride	U		0.30	5.0	µg/Kg	1	3/20/2013 11:07
Xylenes, Total	U		0.58	5.0	µg/Kg	1	3/20/2013 11:07
Surr: 1,2-Dichloroethane-d4	*101*			*70-120*	*%REC*	1	3/20/2013 11:07
Surr: 4-Bromofluorobenzene	*97.6*			*75-120*	*%REC*	1	3/20/2013 11:07
Surr: Dibromofluoromethane	*96.3*			*85-115*	*%REC*	1	3/20/2013 11:07
Surr: Toluene-d8	*96.8*			*85-120*	*%REC*	1	3/20/2013 11:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 25-Mar-13

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46961** Instrument ID **GC7** Method: **SW8151**

MBLK Sample ID: **HBLKS1-46961-46961** Units: **µg/Kg** Analysis Date: **3/22/2013 10:19 AM**

Client ID: Run ID: **GC7_130322A** SeqNo: **2245976** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	U	50								
2,4,5-TP (Silvex)	U	100								
2,4-D	U	50								
2,4-DB	U	50								
Dalapon	U	50								
Dicamba	U	50								
Dichlorprop	U	50								
Dinoseb	U	50								
MCPA	U	1,700								
MCPP	U	1,700								
Surr: DCAA	*150*	0	*166.7*	0	*90*	*30-150*	0			

LCS Sample ID: **HLCSS1-46961-46961** Units: **µg/Kg** Analysis Date: **3/22/2013 10:35 AM**

Client ID: Run ID: **GC7_130322A** SeqNo: **2245977** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	166	50	166.7	0	99.6	30-150	0			
2,4,5-TP (Silvex)	166	100	166.7	0	99.6	30-150	0			
2,4-D	170.3	50	166.7	0	102	20-130	0			
2,4-DB	198	50	166.7	0	119	30-150	0			
Dalapon	90	50	166.7	0	54	30-150	0			
Dicamba	130.7	50	166.7	0	78.4	30-150	0			
Dichlorprop	150	50	166.7	0	90	30-150	0			
Dinoseb	162	50	166.7	0	97.2	10-110	0			
MCPA	16240	1,700	16670	0	97.4	20-130	0			
MCPP	18320	1,700	16670	0	110	20-130	0			
Surr: DCAA	*158.7*	0	*166.7*	0	*95.2*	*30-150*	0			

The following samples were analyzed in this batch: 1303495-01A 1303495-02A 1303495-03A 1303495-05A 1303495-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46974** Instrument ID **GC12** Method: **SW8081**

MBLK Sample ID: **PBLKS1-46974-46974** Units: **µg/Kg** Analysis Date: **3/20/2013 02:09 PM**

Client ID: Run ID: **GC12_130320A** SeqNo: **2243820** Prep Date: **3/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	10								
4,4´-DDE	U	10								
4,4´-DDT	U	10								
Aldrin	U	10								
alpha-BHC	U	10								
alpha-Chlordane	U	10								
beta-BHC	U	10								
Chlordane, Technical	U	25								
delta-BHC	U	10								
Dieldrin	U	10								
Endosulfan I	U	10								
Endosulfan II	U	10								
Endosulfan sulfate	U	10								
Endrin	U	10								
Endrin aldehyde	U	10								
Endrin ketone	U	10								
gamma-BHC (Lindane)	U	10								
gamma-Chlordane	U	10								
Heptachlor	U	10								
Heptachlor epoxide	U	10								
Methoxychlor	U	10								
Toxaphene	U	60								
Surr: Decachlorobiphenyl	*36.67*	0	*33.3*	0	*110*	*45-135*	0			
Surr: Tetrachloro-m-xylene	*33.33*	0	*33.3*	0	*100*	*45-124*	0			

LCS Sample ID: **PLCSS1-46974-46974** Units: **µg/Kg** Analysis Date: **3/20/2013 02:25 PM**

Client ID: Run ID: **GC12_130320A** SeqNo: **2243821** Prep Date: **3/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dieldrin	33.67	10	33.33	0	101	65-125	0			
Endosulfan I	34	10	33.33	0	102	15-135	0			
Endosulfan II	33.67	10	33.33	0	101	35-140	0			
Endosulfan sulfate	34.33	10	33.33	0	103	60-135	0			
Endrin	37.33	10	33.33	0	112	60-135	0			
Endrin aldehyde	30	10	33.33	0	90	35-145	0			
Endrin ketone	31.67	10	33.33	0	95	50-150	0			
Heptachlor epoxide	34	10	33.33	0	102	65-130	0			
Methoxychlor	39	10	33.33	0	117	55-145	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46974** Instrument ID **GC12** Method: **SW8081**

LCS Sample ID: **PLCSS1-46974-46974** Units: **µg/Kg** Analysis Date: **3/20/2013 05:47 PM**

Client ID: Run ID: **GC12_130320A** SeqNo: **2243866** Prep Date: **3/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	40.33	10	33.33	0	121	30-135	0			
4,4´-DDE	32.67	10	33.33	0	98	70-125	0			
4,4´-DDT	23.33	10	33.33	0	70	45-140	0			
Aldrin	30.33	10	33.33	0	91	45-140	0			
alpha-BHC	32.67	10	33.33	0	98	60-125	0			
alpha-Chlordane	33	10	33.33	0	99	50-150	0			
beta-BHC	32	10	33.33	0	96	60-125	0			
delta-BHC	34	10	33.33	0	102	55-130	0			
gamma-BHC (Lindane)	33	10	33.33	0	99	60-125	0			
gamma-Chlordane	34.33	10	33.33	0	103	50-150	0			
Heptachlor	30.33	10	33.33	0	91	50-140	0			
Surr: Decachlorobiphenyl	*38*	0	*33.3*	0	*114*	*45-135*	0			
Surr: Tetrachloro-m-xylene	*31*	0	*33.3*	0	*93.1*	*45-124*	0			

MS Sample ID: **1303418-05B MS** Units: **µg/Kg** Analysis Date: **3/20/2013 03:27 PM**

Client ID: Run ID: **GC12_130320A** SeqNo: **2243812** Prep Date: **3/19/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dieldrin	31.99	48	31.99	0	100	65-125	0			J
Endosulfan I	33.59	48	31.99	0	105	15-135	0			J
Endosulfan II	33.59	48	31.99	0	105	35-140	0			J
Endosulfan sulfate	35.19	48	31.99	0	110	60-135	0			J
Endrin	36.79	48	31.99	0	115	60-135	0			J
Endrin aldehyde	33.59	48	31.99	0	105	35-145	0			J
Endrin ketone	31.99	48	31.99	0	100	50-150	0			J
Heptachlor epoxide	33.59	48	31.99	0	105	65-130	0			J
Methoxychlor	43.19	48	31.99	0	135	55-145	0			J

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46974** Instrument ID **GC12** Method: **SW8081**

MS Sample ID: **1303418-05B MS** Units: **µg/Kg** Analysis Date: **3/20/2013 06:33 PM**

Client ID: Run ID: **GC12_130320A** SeqNo: **2243858** Prep Date: **3/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	34.23	9.6	31.99	0	107	30-135	0			
4,4´-DDE	29.75	9.6	31.99	0	93	70-125	0			
4,4´-DDT	20.47	9.6	31.99	0	64	45-140	0			
Aldrin	25.27	9.6	31.99	0	79	45-140	0			
alpha-BHC	29.43	9.6	31.99	0	92	60-125	0			
alpha-Chlordane	29.11	9.6	31.99	0	91	50-150	0			
beta-BHC	25.91	9.6	31.99	0	81	60-125	0			
delta-BHC	31.35	9.6	31.99	0	98	55-130	0			
gamma-BHC (Lindane)	30.07	9.6	31.99	0	94	60-125	0			
gamma-Chlordane	30.07	9.6	31.99	0	94	50-150	0			
Heptachlor	27.83	9.6	31.99	0	87	50-140	0			
Surr: Decachlorobiphenyl	*31.99*	0	*31.96*	0	*100*	*45-135*	0			
Surr: Tetrachloro-m-xylene	*29.11*	0	*31.96*	0	*91.1*	*45-124*	0			

MSD Sample ID: **1303418-05B MSD** Units: **µg/Kg** Analysis Date: **3/20/2013 03:43 PM**

Client ID: Run ID: **GC12_130320A** SeqNo: **2243813** Prep Date: **3/19/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dieldrin	31.39	50	33.03	0	95	65-125	0	0	35	J
Endosulfan I	33.04	50	33.03	0	100	15-135	0	0	35	J
Endosulfan II	33.04	50	33.03	0	100	35-140	0	0	35	J
Endosulfan sulfate	33.04	50	33.03	0	100	60-135	0	0	35	J
Endrin	34.69	50	33.03	0	105	60-135	0	0	35	J
Endrin aldehyde	33.04	50	33.03	0	100	35-145	0	0	35	J
Endrin ketone	29.73	50	33.03	0	90	50-150	0	0	35	J
Heptachlor epoxide	33.04	50	33.03	0	100	65-130	0	0	35	J
Methoxychlor	41.3	50	33.03	0	125	55-145	0	0	35	J

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46974** Instrument ID **GC12** Method: **SW8081**

MSD Sample ID: **1303418-05B MSD** Units: **µg/Kg** Analysis Date: **3/20/2013 06:49 PM**

Client ID: Run ID: **GC12_130320A** SeqNo: **2243859** Prep Date: **3/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	34.69	9.9	33.03	0	105	30-135	34.23	1.34	35	
4,4´-DDE	30.06	9.9	33.03	0	91	70-125	29.75	1.05	35	
4,4´-DDT	21.14	9.9	33.03	0	64	45-140	20.47	3.22	35	
Aldrin	26.76	9.9	33.03	0	81	45-140	25.27	5.72	35	
alpha-BHC	29.4	9.9	33.03	0	89	60-125	29.43	0.0904	35	
alpha-Chlordane	29.4	9.9	33.03	0	89	50-150	29.11	1	35	
beta-BHC	28.08	9.9	33.03	0	85	60-125	25.91	8.04	35	
delta-BHC	31.72	9.9	33.03	0	96	55-130	31.35	1.16	35	
gamma-BHC (Lindane)	30.06	9.9	33.03	0	91	60-125	30.07	0.0187	35	
gamma-Chlordane	30.06	9.9	33.03	0	91	50-150	30.07	0.0187	35	
Heptachlor	27.42	9.9	33.03	0	83	50-140	27.83	1.48	35	
Surr: Decachlorobiphenyl	*34.36*	0	*33.01*	0	*104*	*45-135*	31.99	*7.14*	*35*	
Surr: Tetrachloro-m-xylene	*30.4*	0	*33.01*	0	*92.1*	*45-124*	29.11	*4.32*	*35*	

The following samples were analyzed in this batch:

1303495-01A	1303495-02A	1303495-03A
1303495-05A	1303495-06A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47054** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-47054-47054** Units: **mg/Kg** Analysis Date: **3/21/2013 02:24 PM**
Client ID: Run ID: **HG1_130321A** SeqNo: **2244369** Prep Date: **3/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-47054-47054** Units: **mg/Kg** Analysis Date: **3/21/2013 02:27 PM**
Client ID: Run ID: **HG1_130321A** SeqNo: **2244370** Prep Date: **3/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1876	0.020	0.1665	0	113	80-120		0		

MS Sample ID: **1303574-04AMS** Units: **mg/Kg** Analysis Date: **3/21/2013 02:33 PM**
Client ID: Run ID: **HG1_130321A** SeqNo: **2244373** Prep Date: **3/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1731	0.013	0.1111	0.06558	96.8	75-125		0		

MSD Sample ID: **1303574-04AMSD** Units: **mg/Kg** Analysis Date: **3/21/2013 02:35 PM**
Client ID: Run ID: **HG1_130321A** SeqNo: **2244374** Prep Date: **3/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1936	0.014	0.1189	0.06558	108	75-125	0.1731	11.2	35	

The following samples were analyzed in this batch:

1303495-01A	1303495-02A	1303495-03A
1303495-04A	1303495-05A	1303495-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46995** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-46995-46995** Units: **mg/Kg** Analysis Date: **3/20/2013 12:27 PM**
Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2242000** Prep Date: **3/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	0.002064	0.10								J
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

LCS Sample ID: **LCS-46995-46995** Units: **mg/Kg** Analysis Date: **3/20/2013 12:33 PM**
Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2242001** Prep Date: **3/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.734	0.25	5	0	94.7	80-120	0			
Barium	4.861	0.25	5	0	97.2	80-120	0			
Cadmium	4.822	0.10	5	0	96.4	80-120	0			
Chromium	4.832	0.25	5	0	96.6	80-120	0			
Lead	4.954	0.25	5	0	99.1	80-120	0			
Selenium	4.415	0.25	5	0	88.3	80-120	0			
Silver	4.724	0.25	5	0	94.5	80-120	0			

MS Sample ID: **1303467-04BMS** Units: **mg/Kg** Analysis Date: **3/19/2013 11:28 PM**
Client ID: Run ID: **ICPMS1_130318A** SeqNo: **2241572** Prep Date: **3/19/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.75	0.75	7.508	13.37	-34.8	75-125	0			S
Barium	28.81	0.75	7.508	20.19	115	75-125	0			
Cadmium	6.631	0.30	7.508	0.09589	87	75-125	0			
Chromium	13.54	0.75	7.508	4.932	115	75-125	0			
Selenium	7.047	0.75	7.508	0.9756	80.9	75-125	0			
Silver	6.287	0.75	7.508	0.03857	83.2	75-125	0			

MS Sample ID: **1303467-04BMS** Units: **mg/Kg** Analysis Date: **3/20/2013 01:15 PM**
Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2242008** Prep Date: **3/19/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	14.93	0.75	7.508	8.062	91.4	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46995** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1303467-04BMSD** Units: **mg/Kg** Analysis Date: **3/19/2013 11:33 PM**

Client ID: Run ID: **ICPMS1_130318A** SeqNo: **2241574** Prep Date: **3/19/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.78	0.74	7.375	13.37	-21.5	75-125	10.75	9.12	25	S
Barium	31.8	0.74	7.375	20.19	157	75-125	28.81	9.85	25	S
Cadmium	6.645	0.29	7.375	0.09589	88.8	75-125	6.631	0.21	25	
Chromium	12.38	0.74	7.375	4.932	101	75-125	13.54	8.99	25	
Selenium	6.873	0.74	7.375	0.9756	80	75-125	7.047	2.49	25	
Silver	6.23	0.74	7.375	0.03857	84	75-125	6.287	0.906	25	

MSD Sample ID: **1303467-04BMSD** Units: **mg/Kg** Analysis Date: **3/20/2013 01:21 PM**

Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2242009** Prep Date: **3/19/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	14.97	0.74	7.375	8.062	93.7	75-125	14.93	0.295	25	

The following samples were analyzed in this batch: 1303495-01A 1303495-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47041** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-47041-47041** Units: **mg/Kg** Analysis Date: **3/20/2013 10:26 PM**
Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2243149** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	0.01636	0.25								J
Cadmium	0.00125	0.10								J
Chromium	U	0.25								
Lead	U	0.25								
Selenium	0.05145	0.25								J
Silver	U	0.25								

LCS Sample ID: **LCS-47041-47041** Units: **mg/Kg** Analysis Date: **3/20/2013 10:32 PM**
Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2243150** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.574	0.25	5	0	91.5	80-120	0			
Barium	4.812	0.25	5	0	96.2	80-120	0			
Cadmium	4.815	0.10	5	0	96.3	80-120	0			
Chromium	4.529	0.25	5	0	90.6	80-120	0			
Lead	4.96	0.25	5	0	99.2	80-120	0			
Selenium	4.462	0.25	5	0	89.2	80-120	0			
Silver	4.722	0.25	5	0	94.4	80-120	0			

MS Sample ID: **1303589-18BMS** Units: **mg/Kg** Analysis Date: **3/20/2013 10:55 PM**
Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2243154** Prep Date: **3/20/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.6	0.77	7.669	6.266	82.6	75-125	0			
Barium	201.2	0.77	7.669	194.5	88.2	75-125	0			O
Cadmium	7.551	0.31	7.669	0.4148	93.1	75-125	0			
Chromium	21.09	0.77	7.669	12.33	114	75-125	0			
Lead	19.63	0.77	7.669	11.79	102	75-125	0			
Selenium	7.281	0.77	7.669	1.018	81.7	75-125	0			
Silver	6.41	0.77	7.669	0.06014	82.8	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47041** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1303589-18BMSD** Units: **mg/Kg** Analysis Date: **3/20/2013 11:01 PM**

Client ID: Run ID: **ICPMS1_130320A** SeqNo: **2243155** Prep Date: **3/20/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.29	0.75	7.541	6.266	93.2	75-125	12.6	5.32	25	
Barium	205.4	0.75	7.541	194.5	145	75-125	201.2	2.07	25	SO
Cadmium	7.451	0.30	7.541	0.4148	93.3	75-125	7.551	1.33	25	
Chromium	21.34	0.75	7.541	12.33	119	75-125	21.09	1.19	25	
Lead	19.52	0.75	7.541	11.79	102	75-125	19.63	0.585	25	
Selenium	6.997	0.75	7.541	1.018	79.3	75-125	7.281	3.97	25	
Silver	6.376	0.75	7.541	0.06014	83.7	75-125	6.41	0.531	25	

The following samples were analyzed in this batch:

1303495-03A	1303495-04A	1303495-05A
1303495-06A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **SBLKS1-47009-47009** Units: **µg/Kg** Analysis Date: **3/20/2013 07:48 PM**

Client ID: Run ID: **SVMS6_130320A** SeqNo: **2244512** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	330								
2,4,5-Trichlorophenol	U	160								
2,4,6-Trichlorophenol	U	160								
2,4-Dichlorophenol	U	160								
2,4-Dimethylphenol	U	330								
2,4-Dinitrophenol	U	660								
2,4-Dinitrotoluene	U	160								
2,6-Dinitrotoluene	U	160								
2-Chloronaphthalene	U	80								
2-Chlorophenol	U	160								
2-Methylnaphthalene	U	80								
2-Methylphenol	U	160								
2-Nitroaniline	U	660								
2-Nitrophenol	U	160								
3,3´-Dichlorobenzidine	U	660								
3-Nitroaniline	U	660								
4,6-Dinitro-2-methylphenol	U	330								
4-Bromophenyl phenyl ether	U	160								
4-Chloro-3-methylphenol	U	160								
4-Chloroaniline	U	660								
4-Chlorophenyl phenyl ether	U	160								
4-Methylphenol	U	160								
4-Nitroaniline	U	660								
4-Nitrophenol	U	660								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Acetophenone	U	330								
Anthracene	U	30								
Atrazine	U	330								
Benzaldehyde	U	330								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Bis(2-chloroethoxy)methane	U	160								
Bis(2-chloroethyl)ether	U	160								
Bis(2-chloroisopropyl)ether	U	160								
Bis(2-ethylhexyl)phthalate	U	330								
Butyl benzyl phthalate	U	160								
Caprolactam	U	330								
Carbazole	U	160								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

Chrysene	U	30					
Dibenzo(a,h)anthracene	U	30					
Dibenzofuran	U	160					
Diethyl phthalate	U	330					
Dimethyl phthalate	U	330					
Di-n-butyl phthalate	U	330					
Di-n-octyl phthalate	U	160					
Fluoranthene	U	30					
Fluorene	U	30					
Hexachlorobenzene	U	160					
Hexachlorobutadiene	U	160					
Hexachlorocyclopentadiene	U	330					
Hexachloroethane	U	160					
Indeno(1,2,3-cd)pyrene	U	30					
Isophorone	U	160					
Naphthalene	U	30					
Nitrobenzene	U	160					
N-Nitrosodi-n-propylamine	U	160					
N-Nitrosodiphenylamine	U	160					
Pentachlorophenol	U	330					
Phenanthrene	U	30					
Phenol	U	160					
Pyrene	U	30					
Surr: 2,4,6-Tribromophenol	*1001*	0	*1667*	0	*60*	*34-140*	0
Surr: 2-Fluorobiphenyl	*1125*	0	*1667*	0	*67.5*	*12-100*	0
Surr: 2-Fluorophenol	*1489*	0	*1667*	0	*89.4*	*33-117*	0
Surr: 4-Terphenyl-d14	*1545*	0	*1667*	0	*92.7*	*25-137*	0
Surr: Nitrobenzene-d5	*1356*	0	*1667*	0	*81.3*	*37-107*	0
Surr: Phenol-d6	*1477*	0	*1667*	0	*88.6*	*40-106*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

LCS Sample ID: **SLCSS1-47009-47009** Units: **µg/Kg** Analysis Date: **3/20/2013 08:18 PM**

Client ID: Run ID: **SVMS6_130320A** SeqNo: **2244516** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	550.3	160	666.7	0	82.5	50-110	0			
2,4,6-Trichlorophenol	525.3	160	666.7	0	78.8	45-110	0			
2,4-Dichlorophenol	573.7	160	666.7	0	86	45-110	0			
2,4-Dimethylphenol	413	330	666.7	0	61.9	30-105	0			
2,4-Dinitrophenol	506.7	660	666.7	0	76	15-130	0			J
2,4-Dinitrotoluene	626	160	666.7	0	93.9	50-115	0			
2,6-Dinitrotoluene	626.3	160	666.7	0	93.9	50-110	0			
2-Chloronaphthalene	594	80	666.7	0	89.1	45-105	0			
2-Chlorophenol	603.7	160	666.7	0	90.5	45-105	0			
2-Methylnaphthalene	585	80	666.7	0	87.7	45-105	0			
2-Methylphenol	604.7	160	666.7	0	90.7	40-105	0			
2-Nitroaniline	677.7	660	666.7	0	102	45-120	0			
2-Nitrophenol	557.7	160	666.7	0	83.6	40-110	0			
3-Nitroaniline	631.7	660	666.7	0	94.7	25-150	0			J
4-Bromophenyl phenyl ether	564	160	666.7	0	84.6	45-115	0			
4-Chloro-3-methylphenol	634	160	666.7	0	95.1	45-115	0			
4-Chloroaniline	357.3	660	666.7	0	53.6	15-110	0			J
4-Chlorophenyl phenyl ether	582.3	160	666.7	0	87.3	45-110	0			
4-Methylphenol	641	160	666.7	0	96.1	40-105	0			
4-Nitroaniline	532.3	660	666.7	0	79.8	35-150	0			J
4-Nitrophenol	594	660	666.7	0	89.1	15-140	0			J
Acenaphthene	587.7	30	666.7	0	88.1	45-110	0			
Acenaphthylene	623.3	30	666.7	0	93.5	45-105	0			
Anthracene	631	30	666.7	0	94.6	55-105	0			
Benzo(a)anthracene	658	30	666.7	0	98.7	50-110	0			
Benzo(a)pyrene	678	30	666.7	0	102	50-110	0			
Benzo(b)fluoranthene	638	30	666.7	0	95.7	45-115	0			
Benzo(g,h,i)perylene	733	30	666.7	0	110	40-125	0			
Benzo(k)fluoranthene	676.7	30	666.7	0	101	45-115	0			
Bis(2-chloroethoxy)methane	595.3	160	666.7	0	89.3	45-110	0			
Bis(2-chloroethyl)ether	583	160	666.7	0	87.4	40-105	0			
Bis(2-chloroisopropyl)ether	601.7	160	666.7	0	90.2	20-115	0			
Bis(2-ethylhexyl)phthalate	820.7	330	666.7	0	123	45-125	0			
Butyl benzyl phthalate	718	160	666.7	0	108	50-125	0			
Carbazole	1374	160	666.7	0	206	50-150	0			S
Chrysene	645.3	30	666.7	0	96.8	55-110	0			
Dibenzo(a,h)anthracene	718.3	30	666.7	0	108	40-125	0			
Dibenzofuran	612.3	160	666.7	0	91.8	50-105	0			
Diethyl phthalate	656.3	330	666.7	0	98.4	50-115	0			
Dimethyl phthalate	607.3	330	666.7	0	91.1	50-110	0			
Di-n-butyl phthalate	682	330	666.7	0	102	55-110	0			
Di-n-octyl phthalate	789	160	666.7	0	118	40-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	646	30	666.7	0	96.9	55-115	0	
Fluorene	605.7	30	666.7	0	90.8	50-110	0	
Hexachlorobenzene	573.3	160	666.7	0	86	45-120	0	
Hexachlorobutadiene	537	160	666.7	0	80.5	40-115	0	
Hexachlorocyclopentadiene	441.3	330	666.7	0	66.2	40-115	0	
Hexachloroethane	601.7	160	666.7	0	90.2	35-110	0	
Indeno(1,2,3-cd)pyrene	714	30	666.7	0	107	40-120	0	
Isophorone	591	160	666.7	0	88.6	45-110	0	
Naphthalene	581.3	30	666.7	0	87.2	40-105	0	
Nitrobenzene	589.3	160	666.7	0	88.4	40-115	0	
N-Nitrosodi-n-propylamine	675.3	160	666.7	0	101	40-115	0	
N-Nitrosodiphenylamine	812.7	160	666.7	0	122	50-115	0	S
Pentachlorophenol	497	330	666.7	0	74.5	25-120	0	
Phenanthrene	611.3	30	666.7	0	91.7	50-110	0	
Phenol	611.3	160	666.7	0	91.7	40-100	0	
Pyrene	677.7	30	666.7	0	102	45-125	0	
Surr: 2,4,6-Tribromophenol	*1135*	0	*1667*	0	*68.1*	*34-140*	0	
Surr: 2-Fluorobiphenyl	*1156*	0	*1667*	0	*69.3*	*12-100*	0	
Surr: 2-Fluorophenol	*1510*	0	*1667*	0	*90.6*	*33-117*	0	
Surr: 4-Terphenyl-d14	*1536*	0	*1667*	0	*92.1*	*25-137*	0	
Surr: Nitrobenzene-d5	*1389*	0	*1667*	0	*83.3*	*37-107*	0	
Surr: Phenol-d6	*1424*	0	*1667*	0	*85.4*	*40-106*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

MS Sample ID: **1303486-01A MS** Units: **µg/Kg** Analysis Date: **3/20/2013 11:22 PM**

Client ID: Run ID: **SVMS6_130320A** SeqNo: **2244519** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1670	460	1927	0	86.6	50-110	0			
2,4,6-Trichlorophenol	1559	460	1927	0	80.9	45-110	0			
2,4-Dichlorophenol	1643	460	1927	0	85.2	45-110	0			
2,4-Dimethylphenol	1650	950	1927	0	85.6	30-105	0			
2,4-Dinitrophenol	1345	1,900	1927	0	69.8	15-130	0			J
2,4-Dinitrotoluene	1748	460	1927	0	90.7	50-115	0			
2,6-Dinitrotoluene	1753	460	1927	0	90.9	50-110	0			
2-Chloronaphthalene	1681	230	1927	0	87.2	45-105	0			
2-Chlorophenol	1694	460	1927	0	87.9	45-105	0			
2-Methylnaphthalene	1627	230	1927	0	84.4	45-105	0			
2-Methylphenol	1756	460	1927	0	91.1	40-105	0			
2-Nitroaniline	1966	1,900	1927	0	102	45-120	0			
2-Nitrophenol	1592	460	1927	0	82.6	40-110	0			
3-Nitroaniline	1834	1,900	1927	0	95.1	25-110	0			J
4-Bromophenyl phenyl ether	1613	460	1927	0	83.7	45-115	0			
4-Chloro-3-methylphenol	1856	460	1927	0	96.3	45-115	0			
4-Chloroaniline	1166	1,900	1927	0	60.5	15-110	0			J
4-Chlorophenyl phenyl ether	1633	460	1927	0	84.7	45-110	0			
4-Methylphenol	1837	460	1927	0	95.3	40-105	0			
4-Nitroaniline	2787	1,900	1927	0	145	35-150	0			
4-Nitrophenol	675.5	1,900	1927	0	35	15-140	0			J
Acenaphthene	1610	87	1927	0	83.5	45-110	0			
Acenaphthylene	1748	87	1927	0	90.7	45-105	0			
Anthracene	1816	87	1927	0	94.2	55-105	0			
Benzo(a)anthracene	1888	87	1927	0	97.9	50-110	0			
Benzo(a)pyrene	1935	87	1927	0	100	50-110	0			
Benzo(b)fluoranthene	1889	87	1927	70.79	94.3	45-115	0			
Benzo(g,h,i)perylene	2049	87	1927	0	106	40-125	0			
Benzo(k)fluoranthene	2017	87	1927	0	105	45-115	0			
Bis(2-chloroethoxy)methane	1648	460	1927	0	85.5	45-110	0			
Bis(2-chloroethyl)ether	1609	460	1927	0	83.5	40-105	0			
Bis(2-chloroisopropyl)ether	1639	460	1927	0	85	20-115	0			
Bis(2-ethylhexyl)phthalate	2275	950	1927	54.84	115	45-125	0			
Butyl benzyl phthalate	1938	460	1927	0	101	50-125	0			
Carbazole	4107	460	1927	0	213	50-150	0			S
Chrysene	1823	87	1927	0	94.6	55-110	0			
Dibenzo(a,h)anthracene	1970	87	1927	0	102	40-125	0			
Dibenzofuran	1704	460	1927	0	88.4	50-105	0			
Diethyl phthalate	1850	950	1927	0	96	50-115	0			
Dimethyl phthalate	1696	950	1927	0	88	50-110	0			
Di-n-butyl phthalate	1913	950	1927	0	99.2	55-110	0			
Di-n-octyl phthalate	2208	460	1927	0	115	40-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	1913	87	1927	60.82	96.1	55-115	0	
Fluorene	1717	87	1927	0	89.1	50-110	0	
Hexachlorobenzene	1634	460	1927	0	84.8	45-120	0	
Hexachlorobutadiene	1479	460	1927	0	76.7	40-115	0	
Hexachlorocyclopentadiene	336.3	950	1927	0	17.4	40-115	0	JS
Hexachloroethane	1244	460	1927	0	64.5	35-110	0	
Indeno(1,2,3-cd)pyrene	1995	87	1927	0	103	40-120	0	
Isophorone	1654	460	1927	0	85.8	45-110	0	
Naphthalene	1612	87	1927	0	83.6	40-105	0	
Nitrobenzene	1655	460	1927	0	85.9	40-115	0	
N-Nitrosodi-n-propylamine	1881	460	1927	0	97.6	40-115	0	
N-Nitrosodiphenylamine	2465	460	1927	0	128	50-115	0	S
Pentachlorophenol	1587	950	1927	0	82.3	25-120	0	
Phenanthrene	1765	87	1927	0	91.6	50-110	0	
Phenol	1706	460	1927	0	88.5	40-100	0	
Pyrene	1926	87	1927	58.82	96.9	45-125	0	
Surr: 2,4,6-Tribromophenol	*3583*	0	*4818*	0	*74.4*	*34-140*	0	
Surr: 2-Fluorobiphenyl	*3236*	0	*4818*	0	*67.2*	*12-100*	0	
Surr: 2-Fluorophenol	*4221*	0	*4818*	0	*87.6*	*33-117*	0	
Surr: 4-Terphenyl-d14	*4185*	0	*4818*	0	*86.9*	*25-137*	0	
Surr: Nitrobenzene-d5	*3845*	0	*4818*	0	*79.8*	*37-107*	0	
Surr: Phenol-d6	*4011*	0	*4818*	0	*83.3*	*40-106*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

MSD Sample ID: **1303486-01A MSD** Units: **µg/Kg** Analysis Date: **3/20/2013 11:51 PM**

Client ID: Run ID: **SVMS6_130320A** SeqNo: **2244523** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1525	450	1875	0	81.3	50-110	1670	9.04	30	
2,4,6-Trichlorophenol	1447	450	1875	0	77.1	45-110	1559	7.48	30	
2,4-Dichlorophenol	1477	450	1875	0	78.7	45-110	1643	10.7	30	
2,4-Dimethylphenol	1501	930	1875	0	80	30-105	1650	9.43	30	
2,4-Dinitrophenol	1165	1,900	1875	0	62.1	15-130	1345	0	30	J
2,4-Dinitrotoluene	1656	450	1875	0	88.3	50-115	1748	5.42	30	
2,6-Dinitrotoluene	1647	450	1875	0	87.8	50-110	1753	6.2	30	
2-Chloronaphthalene	1513	230	1875	0	80.7	45-105	1681	10.5	30	
2-Chlorophenol	1548	450	1875	0	82.5	45-105	1694	9.01	30	
2-Methylnaphthalene	1477	230	1875	0	78.7	45-105	1627	9.66	30	
2-Methylphenol	1605	450	1875	0	85.6	40-105	1756	8.96	30	
2-Nitroaniline	1869	1,900	1875	0	99.6	45-120	1966	0	30	J
2-Nitrophenol	1442	450	1875	0	76.9	40-110	1592	9.88	30	
3-Nitroaniline	1725	1,900	1875	0	92	25-110	1834	0	30	J
4-Bromophenyl phenyl ether	1526	450	1875	0	81.4	45-115	1613	5.52	30	
4-Chloro-3-methylphenol	1732	450	1875	0	92.3	45-115	1856	6.92	30	
4-Chloroaniline	1274	1,900	1875	0	67.9	15-110	1166	0	30	J
4-Chlorophenyl phenyl ether	1538	450	1875	0	82	45-110	1633	6.03	30	
4-Methylphenol	1683	450	1875	0	89.7	40-105	1837	8.73	30	
4-Nitroaniline	2696	1,900	1875	0	144	35-150	2787	3.29	30	
4-Nitrophenol	684.4	1,900	1875	0	36.5	15-140	675.5	0	30	J
Acenaphthene	1500	84	1875	0	80	45-110	1610	7.08	30	
Acenaphthylene	1614	84	1875	0	86.1	45-105	1748	7.94	30	
Anthracene	1734	84	1875	0	92.4	55-105	1816	4.66	30	
Benzo(a)anthracene	1750	84	1875	0	93.3	50-110	1888	7.54	30	
Benzo(a)pyrene	1775	84	1875	0	94.6	50-110	1935	8.63	30	
Benzo(b)fluoranthene	1934	84	1875	70.79	99.4	45-115	1889	2.38	30	
Benzo(g,h,i)perylene	1850	84	1875	0	98.6	40-125	2049	10.2	30	
Benzo(k)fluoranthene	1625	84	1875	0	86.6	45-115	2017	21.5	30	
Bis(2-chloroethoxy)methane	1497	450	1875	0	79.8	45-110	1648	9.57	30	
Bis(2-chloroethyl)ether	1465	450	1875	0	78.1	40-105	1609	9.35	30	
Bis(2-chloroisopropyl)ether	1487	450	1875	0	79.3	20-115	1639	9.73	30	
Bis(2-ethylhexyl)phthalate	2053	930	1875	54.84	107	45-125	2275	10.2	30	
Butyl benzyl phthalate	1783	450	1875	0	95.1	50-125	1938	8.31	30	
Carbazole	3889	450	1875	0	207	50-150	4107	5.45	30	S
Chrysene	1703	84	1875	0	90.8	55-110	1823	6.83	30	
Dibenzo(a,h)anthracene	1802	84	1875	0	96.1	40-125	1970	8.89	30	
Dibenzofuran	1601	450	1875	0	85.4	50-105	1704	6.19	30	
Diethyl phthalate	1755	930	1875	0	93.6	50-115	1850	5.27	30	
Dimethyl phthalate	1565	930	1875	0	83.4	50-110	1696	8.04	30	
Di-n-butyl phthalate	1782	930	1875	0	95	55-110	1913	7.06	30	
Di-n-octyl phthalate	2027	450	1875	0	108	40-130	2208	8.53	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47009** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	1819	84	1875	60.82	93.8	55-115	1913	5.03	30	
Fluorene	1611	84	1875	0	85.9	50-110	1717	6.39	30	
Hexachlorobenzene	1541	450	1875	0	82.2	45-120	1634	5.85	30	
Hexachlorobutadiene	1323	450	1875	0	70.5	40-115	1479	11.1	30	
Hexachlorocyclopentadiene	143.4	930	1875	0	7.65	40-115	336.3	0	30	JS
Hexachloroethane	964.7	450	1875	0	51.4	35-110	1244	25.3	30	
Indeno(1,2,3-cd)pyrene	1830	84	1875	0	97.6	40-120	1995	8.6	30	
Isophorone	1489	450	1875	0	79.4	45-110	1654	10.5	30	
Naphthalene	1454	84	1875	0	77.5	40-105	1612	10.3	30	
Nitrobenzene	1476	450	1875	0	78.7	40-115	1655	11.5	30	
N-Nitrosodi-n-propylamine	1705	450	1875	0	90.9	40-115	1881	9.79	30	
N-Nitrosodiphenylamine	2335	450	1875	0	125	50-115	2465	5.39	30	S
Pentachlorophenol	1431	930	1875	0	76.3	25-120	1587	10.4	30	
Phenanthrene	1689	84	1875	0	90.1	50-110	1765	4.39	30	
Phenol	1580	450	1875	0	84.2	40-100	1706	7.65	30	
Pyrene	1791	84	1875	58.82	92.4	45-125	1926	7.29	30	
Surr: 2,4,6-Tribromophenol	*3282*	0	*4688*	0	*70*	*34-140*	3583	*8.75*	*40*	
Surr: 2-Fluorobiphenyl	*2916*	0	*4688*	0	*62.2*	*12-100*	3236	*10.4*	*40*	
Surr: 2-Fluorophenol	*3828*	0	*4688*	0	*81.7*	*33-117*	4221	*9.77*	*40*	
Surr: 4-Terphenyl-d14	*3833*	0	*4688*	0	*81.8*	*25-137*	4185	*8.78*	*40*	
Surr: Nitrobenzene-d5	*3444*	0	*4688*	0	*73.5*	*37-107*	3845	*11*	*40*	
Surr: Phenol-d6	*3600*	0	*4688*	0	*76.8*	*40-106*	4011	*10.8*	*40*	

The following samples were analyzed in this batch:

1303495-01A	1303495-02A	1303495-03A
1303495-04A	1303495-05A	1303495-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **47010** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **DBLKS1-47010-47010** Units: **mg/Kg** Analysis Date: **3/20/2013 07:48 PM**
Client ID: Run ID: **SVMS6_130320A** SeqNo: **2244546** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	4.2								
ORO (C21-C35)	U	4.2								
Surr: 4-Terphenyl-d14	*1.545*	0	*1.667*	0	*92.7*	*25-137*	0			

LCS Sample ID: **DLCSS1-47010-47010** Units: **mg/Kg** Analysis Date: **3/20/2013 09:45 PM**
Client ID: Run ID: **SVMS6_130320A** SeqNo: **2244548** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	135.3	4.2	166.7	0	81.2	49-124	0			
ORO (C21-C35)	154	4.2	166.7	0	92.4	60-130	0			
Surr: 4-Terphenyl-d14	*1.538*	0	*1.667*	0	*92.3*	*25-137*	0			

MS Sample ID: **1303495-03A MS** Units: **mg/Kg** Analysis Date: **3/21/2013 12:20 PM**
Client ID: **SS-3** Run ID: **SVMS6_130320A** SeqNo: **2244565** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	266.6	8.2	328.8	17.02	75.9	31-135	0			
ORO (C21-C35)	380.4	8.2	328.8	66.6	95.4	31-135	0			
Surr: 4-Terphenyl-d14	*2.855*	0	*3.288*	0	*86.8*	*25-137*	0			

MSD Sample ID: **1303495-03A MSD** Units: **mg/Kg** Analysis Date: **3/21/2013 12:49 PM**
Client ID: **SS-3** Run ID: **SVMS6_130320A** SeqNo: **2244567** Prep Date: **3/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	251.8	7.9	316.5	17.02	74.2	31-135	266.6	5.71	30	
ORO (C21-C35)	370.6	7.9	316.5	66.6	96.1	31-135	380.4	2.59	30	
Surr: 4-Terphenyl-d14	*2.799*	0	*3.165*	0	*88.4*	*25-137*	2.855	*2.01*	*30*	

The following samples were analyzed in this batch:

1303495-01A	1303495-02A	1303495-03A
1303495-04A	1303495-05A	1303495-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46998** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-46998-46998** Units: **µg/Kg** Analysis Date: **3/20/2013 01:48 AM**

Client ID: Run ID: **VMS5_130319B** SeqNo: **2243601** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	*984.5*	0	*1000*	0	*98.4*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46998** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **LCS-46998-46998** Units: **µg/Kg** Analysis Date: **3/20/2013 12:15 PM**
Client ID: Run ID: **VMS5_130319B** SeqNo: **2243367** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1142	30	1000	0	114	70-135	0			
1,1,2,2-Tetrachloroethane	922.5	30	1000	0	92.2	55-130	0			
1,1,2-Trichloroethane	991	30	1000	0	99.1	60-125	0			
1,1-Dichloroethane	1102	30	1000	0	110	75-125	0			
1,1-Dichloroethene	1218	30	1000	0	122	65-135	0			
1,2,4-Trichlorobenzene	980	30	1000	0	98	65-130	0			
1,2-Dibromo-3-chloropropane	925.5	30	1000	0	92.6	40-135	0			
1,2-Dibromoethane	1068	30	1000	0	107	70-125	0			
1,2-Dichlorobenzene	969	30	1000	0	96.9	75-120	0			
1,2-Dichloroethane	1030	30	1000	0	103	70-135	0			
1,2-Dichloropropane	1044	30	1000	0	104	70-120	0			
1,3-Dichlorobenzene	1022	30	1000	0	102	70-125	0			
1,4-Dichlorobenzene	1001	30	1000	0	100	70-125	0			
2-Butanone	1044	200	1000	0	104	30-160	0			
2-Hexanone	936.5	30	1000	0	93.6	45-145	0			
4-Methyl-2-pentanone	1384	30	1000	0	138	45-145	0			
Acetone	1146	100	1000	0	115	20-160	0			
Benzene	1089	30	1000	0	109	75-125	0			
Bromodichloromethane	987	30	1000	0	98.7	70-130	0			
Bromoform	930	30	1000	0	93	55-135	0			
Bromomethane	1340	75	1000	0	134	30-160	0			
Carbon disulfide	1533	30	1000	0	153	45-160	0			
Carbon tetrachloride	1085	30	1000	0	108	65-135	0			
Chlorobenzene	1070	30	1000	0	107	75-125	0			
Chloroethane	1063	100	1000	0	106	40-155	0			
Chloroform	1058	30	1000	0	106	70-125	0			
Chloromethane	1042	100	1000	0	104	50-130	0			
cis-1,2-Dichloroethene	1083	30	1000	0	108	65-125	0			
cis-1,3-Dichloropropene	1012	30	1000	0	101	70-125	0			
Dibromochloromethane	972.5	30	1000	0	97.2	65-135	0			
Dichlorodifluoromethane	991.5	30	1000	0	99.2	35-135	0			
Ethylbenzene	1144	30	1000	0	114	75-125	0			
Isopropylbenzene	1172	30	1000	0	117	75-130	0			
m,p-Xylene	2273	60	2000	0	114	80-125	0			
Methyl tert-butyl ether	1062	30	1000	0	106	75-125	0			
Methylene chloride	1152	30	1000	0	115	55-145	0			
o-Xylene	1106	30	1000	0	111	75-125	0			
Styrene	1101	30	1000	0	110	75-125	0			
Tetrachloroethene	1226	30	1000	0	123	64-140	0			
Toluene	1073	30	1000	0	107	70-125	0			
trans-1,2-Dichloroethene	1148	30	1000	0	115	65-135	0			
trans-1,3-Dichloropropene	1004	30	1000	0	100	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **46998** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	1069	30	1000	0	107	75-125	0
Trichlorofluoromethane	1019	30	1000	0	102	25-185	0
Vinyl chloride	1164	30	1000	0	116	60-125	0
Xylenes, Total	3378	90	3000	0	113	75-125	0
Surr: 1,2-Dichloroethane-d4	*970.5*	0	*1000*	0	*97*	*70-130*	0
Surr: 4-Bromofluorobenzene	*997*	0	*1000*	0	*99.7*	*70-130*	0
Surr: Dibromofluoromethane	*982*	0	*1000*	0	*98.2*	*70-130*	0
Surr: Toluene-d8	*982.5*	0	*1000*	0	*98.2*	*70-130*	0

LCS Sample ID: **LCS-46998-46998** Units: **µg/Kg** Analysis Date: **3/20/2013 12:15 PM**

Client ID: Run ID: **VMS5_130319B** SeqNo: **2243618** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	22080	2,500	25000	0	88.3	75-125	0			
Surr: Toluene-d8	*982.5*	0	*1000*	0	*98.2*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46998** Instrument ID **VMS5** Method: **SW8260**

MS Sample ID: **1303495-01B MS** Units: **µg/Kg** Analysis Date: **3/20/2013 08:21 AM**

Client ID: **SS-1** Run ID: **VMS5_130319B** SeqNo: **2243365** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1118	30	1000	0	112	70-135	0			
1,1,2,2-Tetrachloroethane	850.5	30	1000	0	85	55-130	0			
1,1,2-Trichloroethane	912.5	30	1000	0	91.2	60-125	0			
1,1-Dichloroethane	1076	30	1000	0	108	75-125	0			
1,1-Dichloroethene	1200	30	1000	0	120	65-135	0			
1,2,4-Trichlorobenzene	932	30	1000	0	93.2	65-130	0			
1,2-Dibromo-3-chloropropane	825	30	1000	0	82.5	40-135	0			
1,2-Dibromoethane	984	30	1000	0	98.4	70-125	0			
1,2-Dichlorobenzene	932.5	30	1000	0	93.2	75-120	0			
1,2-Dichloroethane	962.5	30	1000	0	96.2	70-135	0			
1,2-Dichloropropane	1001	30	1000	0	100	70-120	0			
1,3-Dichlorobenzene	977	30	1000	0	97.7	70-125	0			
1,4-Dichlorobenzene	956.5	30	1000	0	95.6	70-125	0			
2-Butanone	964	200	1000	0	96.4	30-160	0			
2-Hexanone	912.5	30	1000	0	91.2	45-145	0			
4-Methyl-2-pentanone	1336	30	1000	0	134	45-145	0			
Acetone	1280	100	1000	0	128	20-160	0			
Benzene	1050	30	1000	0	105	75-125	0			
Bromodichloromethane	938	30	1000	0	93.8	70-130	0			
Bromoform	856.5	30	1000	0	85.6	55-135	0			
Bromomethane	558	75	1000	0	55.8	30-160	0			
Carbon disulfide	1564	30	1000	0	156	45-160	0			
Carbon tetrachloride	1052	30	1000	0	105	65-135	0			
Chlorobenzene	1030	30	1000	0	103	75-125	0			
Chloroethane	820	100	1000	0	82	40-155	0			
Chloroform	1016	30	1000	0	102	70-125	0			
Chloromethane	1008	100	1000	0	101	50-130	0			
cis-1,2-Dichloroethene	1029	30	1000	0	103	65-125	0			
cis-1,3-Dichloropropene	911	30	1000	0	91.1	70-125	0			
Dibromochloromethane	893.5	30	1000	0	89.4	65-135	0			
Dichlorodifluoromethane	1102	30	1000	0	110	35-135	0			
Ethylbenzene	1092	30	1000	0	109	75-125	0			
Isopropylbenzene	1156	30	1000	0	116	75-130	0			
m,p-Xylene	2205	60	2000	0	110	80-125	0			
Methyl tert-butyl ether	997.5	30	1000	0	99.8	75-125	0			
Methylene chloride	1108	30	1000	0	111	55-145	0			
o-Xylene	1056	30	1000	0	106	75-125	0			
Styrene	1042	30	1000	0	104	75-125	0			
Tetrachloroethene	1193	30	1000	0	119	64-140	0			
Toluene	1075	30	1000	75	100	70-125	0			
trans-1,2-Dichloroethene	1144	30	1000	0	114	65-135	0			
trans-1,3-Dichloropropene	900.5	30	1000	0	90	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **46998** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	1050	30	1000	0	105	75-125	0
Trichlorofluoromethane	1028	30	1000	0	103	25-185	0
Vinyl chloride	1152	30	1000	0	115	60-125	0
Xylenes, Total	3262	90	3000	0	109	75-125	0
Surr: 1,2-Dichloroethane-d4	*974*	0	*1000*	0	*97.4*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1000*	0	*1000*	0	*100*	*70-130*	0
Surr: Dibromofluoromethane	*962*	0	*1000*	0	*96.2*	*70-130*	0
Surr: Toluene-d8	*1000*	0	*1000*	0	*100*	*70-130*	0

MS Sample ID: **1303495-01B MS** Units: **µg/Kg** Analysis Date: **3/20/2013 08:21 AM**

Client ID: **SS-1** Run ID: **VMS5_130319B** SeqNo: **2243614** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	66910	2,500	25000	976.5	264	75-125	0			S
Surr: Toluene-d8	*987*	0	*1000*	0	*98.7*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **46998** Instrument ID **VMS5** Method: **SW8260**

MSD Sample ID: **1303495-01B MSD** Units: **µg/Kg** Analysis Date: **3/20/2013 08:44 AM**

Client ID: **SS-1** Run ID: **VMS5_130319B** SeqNo: **2243366** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1122	30	1000	0	112	70-135	1118	0.313	30	
1,1,2,2-Tetrachloroethane	825	30	1000	0	82.5	55-130	850.5	3.04	30	
1,1,2-Trichloroethane	909.5	30	1000	0	91	60-125	912.5	0.329	30	
1,1-Dichloroethane	1042	30	1000	0	104	75-125	1076	3.26	30	
1,1-Dichloroethene	1189	30	1000	0	119	65-135	1200	0.963	30	
1,2,4-Trichlorobenzene	1011	30	1000	0	101	65-130	932	8.13	30	
1,2-Dibromo-3-chloropropane	847	30	1000	0	84.7	40-135	825	2.63	30	
1,2-Dibromoethane	970	30	1000	0	97	70-125	984	1.43	30	
1,2-Dichlorobenzene	976.5	30	1000	0	97.6	75-120	932.5	4.61	30	
1,2-Dichloroethane	958	30	1000	0	95.8	70-135	962.5	0.469	30	
1,2-Dichloropropane	979	30	1000	0	97.9	70-120	1001	2.22	30	
1,3-Dichlorobenzene	1036	30	1000	0	104	70-125	977	5.86	30	
1,4-Dichlorobenzene	1004	30	1000	0	100	70-125	956.5	4.85	30	
2-Butanone	985	200	1000	0	98.5	30-160	964	2.15	30	
2-Hexanone	939	30	1000	0	93.9	45-145	912.5	2.86	30	
4-Methyl-2-pentanone	1304	30	1000	0	130	45-145	1336	2.43	30	
Acetone	1265	100	1000	0	126	20-160	1280	1.18	30	
Benzene	1024	30	1000	0	102	75-125	1050	2.46	30	
Bromodichloromethane	935	30	1000	0	93.5	70-130	938	0.32	30	
Bromoform	818	30	1000	0	81.8	55-135	856.5	4.6	30	
Bromomethane	711	75	1000	0	71.1	30-160	558	24.1	30	
Carbon disulfide	1478	30	1000	0	148	45-160	1564	5.62	30	
Carbon tetrachloride	1040	30	1000	0	104	65-135	1052	1.2	30	
Chlorobenzene	1008	30	1000	0	101	75-125	1030	2.21	30	
Chloroethane	755.5	100	1000	0	75.6	40-155	820	8.19	30	
Chloroform	989	30	1000	0	98.9	70-125	1016	2.74	30	
Chloromethane	1022	100	1000	0	102	50-130	1008	1.43	30	
cis-1,2-Dichloroethene	1015	30	1000	0	102	65-125	1029	1.37	30	
cis-1,3-Dichloropropene	904	30	1000	0	90.4	70-125	911	0.771	30	
Dibromochloromethane	883	30	1000	0	88.3	65-135	893.5	1.18	30	
Dichlorodifluoromethane	1080	30	1000	0	108	35-135	1102	2.11	30	
Ethylbenzene	1088	30	1000	0	109	75-125	1092	0.321	30	
Isopropylbenzene	1168	30	1000	0	117	75-130	1156	1.08	30	
m,p-Xylene	2186	60	2000	0	109	80-125	2205	0.865	30	
Methyl tert-butyl ether	984.5	30	1000	0	98.4	75-125	997.5	1.31	30	
Methylene chloride	1098	30	1000	0	110	55-145	1108	0.952	30	
o-Xylene	1056	30	1000	0	106	75-125	1056	0.0473	30	
Styrene	1038	30	1000	0	104	75-125	1042	0.433	30	
Tetrachloroethene	1174	30	1000	0	117	64-140	1193	1.61	30	
Toluene	1053	30	1000	75	97.8	70-125	1075	2.07	30	
trans-1,2-Dichloroethene	1110	30	1000	0	111	65-135	1144	3.02	30	
trans-1,3-Dichloropropene	888	30	1000	0	88.8	65-125	900.5	1.4	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **46998** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	1034	30	1000	0	103	75-125	1050	1.54	30
Trichlorofluoromethane	995	30	1000	0	99.5	25-185	1028	3.21	30
Vinyl chloride	1142	30	1000	0	114	60-125	1152	0.785	30
Xylenes, Total	3242	90	3000	0	108	75-125	3262	0.6	30
Surr: 1,2-Dichloroethane-d4	*1002*	0	*1000*	0	*100*	*70-130*	974	*2.78*	*30*
Surr: 4-Bromofluorobenzene	*1012*	0	*1000*	0	*101*	*70-130*	1000	*1.14*	*30*
Surr: Dibromofluoromethane	*973.5*	0	*1000*	0	*97.4*	*70-130*	962	*1.19*	*30*
Surr: Toluene-d8	*996.5*	0	*1000*	0	*99.6*	*70-130*	1000	*0.401*	*30*

MSD Sample ID: **1303495-01B MSD** Units: **µg/Kg** Analysis Date: **3/20/2013 08:44 AM**

Client ID: **SS-1** Run ID: **VMS5_130319B** SeqNo: **2243617** Prep Date: **3/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	66960	2,500	25000	976.5	264	75-125	66910	0.0687	30	S
Surr: Toluene-d8	*986.5*	0	*1000*	0	*98.6*	*70-130*	987	*0.0507*	*30*	

The following samples were analyzed in this batch:

1303495-01B	1303495-02B	1303495-03B
1303495-04B	1303495-05B	1303495-06B
1303495-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-130320-R117582** Units: **µg/Kg** Analysis Date: **3/20/2013 10:39 AM**

Client ID: Run ID: **VMS7_130320A** SeqNo: **2243610** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.52	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	U	5.0								
o-Xylene	U	2.5								
Styrene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	10					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	5.0					
Xylenes, Total	U	5.0					
Surr: 1,2-Dichloroethane-d4	*19.29*	0	*20*	0	*96.4*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.48*	0	*20*	0	*102*	*75-120*	0
Surr: Dibromofluoromethane	*19.34*	0	*20*	0	*96.7*	*85-115*	0
Surr: Toluene-d8	*19.33*	0	*20*	0	*96.6*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS-130320-R117582** Units: **µg/Kg** Analysis Date: **3/20/2013 09:32 AM**

Client ID: Run ID: **VMS7_130320A** SeqNo: **2243605** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.34	5.0	20	0	91.7	70-135	0			
1,1,2,2-Tetrachloroethane	18.41	5.0	20	0	92	55-130	0			
1,1,2-Trichloroethane	18.27	5.0	20	0	91.4	60-125	0			
1,1-Dichloroethane	20.06	5.0	20	0	100	75-125	0			
1,1-Dichloroethene	20.51	5.0	20	0	103	65-135	0			
1,2,4-Trichlorobenzene	19.54	5.0	20	0	97.7	65-130	0			
1,2-Dibromo-3-chloropropane	20.55	5.0	20	0	103	40-135	0			
1,2-Dibromoethane	32.11	5.0	20	0	161	70-125	0			S
1,2-Dichlorobenzene	18.95	5.0	20	0	94.8	75-120	0			
1,2-Dichloroethane	17.21	5.0	20	0	86	70-135	0			
1,2-Dichloropropane	18.63	5.0	20	0	93.2	70-120	0			
1,3-Dichlorobenzene	18.97	5.0	20	0	94.8	70-125	0			
1,4-Dichlorobenzene	19.12	5.0	20	0	95.6	70-125	0			
2-Butanone	19.87	10	20	0	99.4	30-160	0			
2-Hexanone	22.78	5.0	20	0	114	45-145	0			
4-Methyl-2-pentanone	28.25	5.0	20	0	141	45-145	0			
Acetone	21.68	10	20	0	108	20-160	0			
Benzene	18.62	5.0	20	0	93.1	75-125	0			
Bromodichloromethane	18.82	5.0	20	0	94.1	70-130	0			
Bromoform	19	5.0	20	0	95	55-135	0			
Bromomethane	17.72	10	20	0	88.6	30-160	0			
Carbon disulfide	24.85	5.0	20	0	124	45-160	0			
Carbon tetrachloride	20.59	5.0	20	0	103	65-135	0			
Chlorobenzene	19.16	5.0	20	0	95.8	75-125	0			
Chloroethane	19.55	5.0	20	0	97.8	40-155	0			
Chloroform	17.11	5.0	20	0	85.6	70-125	0			
Chloromethane	19.21	10	20	0	96	50-130	0			
cis-1,2-Dichloroethene	17.97	5.0	20	0	89.8	65-125	0			
cis-1,3-Dichloropropene	18.65	5.0	20	0	93.2	70-125	0			
Dibromochloromethane	18.41	5.0	20	0	92	65-135	0			
Dichlorodifluoromethane	18.95	10	20	0	94.8	35-135	0			
Ethylbenzene	19.7	5.0	20	0	98.5	75-125	0			
Isopropylbenzene	18.73	5.0	20	0	93.6	75-130	0			
m,p-Xylene	39.26	2.5	40	0	98.2	80-125	0			
Methyl tert-butyl ether	18.63	5.0	20	0	93.2	75-125	0			
Methylene chloride	18.8	5.0	20	0	94	55-140	0			
o-Xylene	18.92	2.5	20	0	94.6	75-125	0			
Styrene	19.33	5.0	20	0	96.6	75-125	0			
Tetrachloroethene	19.04	5.0	20	0	95.2	65-140	0			
Toluene	19.26	5.0	20	0	96.3	70-125	0			
trans-1,2-Dichloroethene	20.5	5.0	20	0	102	65-135	0			
trans-1,3-Dichloropropene	20.48	10	20	0	102	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	18.65	5.0	20	0	93.2	75-125	0
Trichlorofluoromethane	18.29	5.0	20	0	91.4	25-185	0
Vinyl chloride	20.36	5.0	20	0	102	60-125	0
Xylenes, Total	58.18	5.0	60	0	97	75-125	0
Surr: 1,2-Dichloroethane-d4	*17.99*	0	*20*	0	*90*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.37*	0	*20*	0	*96.8*	*75-120*	0
Surr: Dibromofluoromethane	*18.84*	0	*20*	0	*94.2*	*85-115*	0
Surr: Toluene-d8	*19.69*	0	*20*	0	*98.4*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1303418-24A MS** Units: **µg/Kg** Analysis Date: **3/20/2013 07:35 PM**

Client ID: Run ID: **VMS7_130320A** SeqNo: **2243654** Prep Date: DF: **0.965**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.76	4.8	19.3	0	102	70-135	0			
1,1,2,2-Tetrachloroethane	12.79	4.8	19.3	0	66.2	55-130	0			
1,1,2-Trichloroethane	13.83	4.8	19.3	0	71.6	60-125	0			
1,1-Dichloroethane	18.82	4.8	19.3	0	97.5	75-125	0			
1,1-Dichloroethene	20.82	4.8	19.3	0	108	65-135	0			
1,2,4-Trichlorobenzene	9.679	4.8	19.3	0	50.2	65-130	0			S
1,2-Dibromo-3-chloropropane	10.87	4.8	19.3	0	56.3	40-135	0			
1,2-Dibromoethane	18.8	4.8	19.3	0	97.4	70-125	0			
1,2-Dichlorobenzene	11.94	4.8	19.3	0	61.8	75-120	0			S
1,2-Dichloroethane	16.19	4.8	19.3	0	83.9	70-135	0			
1,2-Dichloropropane	16.16	4.8	19.3	0	83.8	70-120	0			
1,3-Dichlorobenzene	12.94	4.8	19.3	0	67	70-125	0			S
1,4-Dichlorobenzene	12.23	4.8	19.3	0	63.4	70-125	0			S
2-Butanone	37.26	9.6	19.3	1.286	186	30-160	0			S
2-Hexanone	25.03	4.8	19.3	0	130	45-145	0			
4-Methyl-2-pentanone	26.19	4.8	19.3	0	136	45-145	0			
Acetone	62.45	9.6	19.3	12.36	260	20-160	0			S
Benzene	17.68	4.8	19.3	0.2814	90.1	75-125	0			
Bromodichloromethane	15.27	4.8	19.3	0	79.1	70-130	0			
Bromoform	10.66	4.8	19.3	0	55.2	55-135	0			
Bromomethane	18.19	9.6	19.3	0	94.2	30-160	0			
Carbon disulfide	24.53	4.8	19.3	0.1809	126	45-160	0			
Carbon tetrachloride	22.31	4.8	19.3	0	116	65-135	0			
Chlorobenzene	14.71	4.8	19.3	0	76.2	75-125	0			
Chloroethane	18.89	4.8	19.3	0	97.8	40-155	0			
Chloroform	16.87	4.8	19.3	0.335	85.7	70-125	0			
Chloromethane	16.5	9.6	19.3	0	85.5	50-130	0			
cis-1,2-Dichloroethene	18.11	4.8	19.3	0	93.8	65-125	0			
cis-1,3-Dichloropropene	13.47	4.8	19.3	0	69.8	70-125	0			S
Dibromochloromethane	12.26	4.8	19.3	0	63.5	65-135	0			S
Dichlorodifluoromethane	20.4	9.6	19.3	0	106	35-135	0			
Ethylbenzene	17.27	4.8	19.3	0.1206	88.9	75-125	0			
Isopropylbenzene	17.83	4.8	19.3	0	92.4	75-130	0			
m,p-Xylene	34.47	2.4	38.6	0.1876	88.8	80-125	0			
Methyl tert-butyl ether	16.6	4.8	19.3	0	86	75-125	0			
Methylene chloride	18.39	4.8	19.3	0	95.3	55-140	0			
o-Xylene	16.51	2.4	19.3	0	85.6	75-125	0			
Styrene	14.24	4.8	19.3	0	73.8	75-125	0			S
Tetrachloroethene	20.13	4.8	19.3	0	104	65-140	0			
Toluene	17.63	4.8	19.3	0.4623	89	70-125	0			
trans-1,2-Dichloroethene	19.65	4.8	19.3	0	102	65-135	0			
trans-1,3-Dichloropropene	12.54	9.6	19.3	0	65	65-125	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	16.84	4.8	19.3	0	87.2	75-125	0
Trichlorofluoromethane	19.76	4.8	19.3	0	102	25-185	0
Vinyl chloride	20.04	4.8	19.3	0.5695	101	60-125	0
Xylenes, Total	50.98	4.8	57.9	0.1876	87.7	75-125	0
Surr: 1,2-Dichloroethane-d4	*21.95*	0	*19.3*	0	*114*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.8*	0	*19.3*	0	*103*	*75-120*	0
Surr: Dibromofluoromethane	*20.52*	0	*19.3*	0	*106*	*85-115*	0
Surr: Toluene-d8	*19.85*	0	*19.3*	0	*103*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1303418-24A MSD** Units: **µg/Kg** Analysis Date: **3/20/2013 08:03 PM**

Client ID: Run ID: **VMS7_130320A** SeqNo: **2243656** Prep Date: DF: **0.962**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.11	4.8	19.24	0	78.6	70-135	19.76	26.7	30	
1,1,2,2-Tetrachloroethane	10.77	4.8	19.24	0	56	55-130	12.79	17.1	30	
1,1,2-Trichloroethane	11.85	4.8	19.24	0	61.6	60-125	13.83	15.4	30	
1,1-Dichloroethane	15.21	4.8	19.24	0	79	75-125	18.82	21.2	30	
1,1-Dichloroethene	15.49	4.8	19.24	0	80.5	65-135	20.82	29.3	30	
1,2,4-Trichlorobenzene	9.495	4.8	19.24	0	49.4	65-130	9.679	1.92	30	S
1,2-Dibromo-3-chloropropane	10.09	4.8	19.24	0	52.4	40-135	10.87	7.39	30	
1,2-Dibromoethane	16.22	4.8	19.24	0	84.3	70-125	18.8	14.7	30	
1,2-Dichlorobenzene	11.36	4.8	19.24	0	59	75-120	11.94	4.94	30	S
1,2-Dichloroethane	13.54	4.8	19.24	0	70.4	70-135	16.19	17.9	30	
1,2-Dichloropropane	13.68	4.8	19.24	0	71.1	70-120	16.16	16.6	30	
1,3-Dichlorobenzene	11.56	4.8	19.24	0	60.1	70-125	12.94	11.2	30	S
1,4-Dichlorobenzene	11.17	4.8	19.24	0	58	70-125	12.23	9.04	30	S
2-Butanone	29.24	9.6	19.24	1.286	145	30-160	37.26	24.1	30	
2-Hexanone	21.79	4.8	19.24	0	113	45-145	25.03	13.9	30	
4-Methyl-2-pentanone	20.87	4.8	19.24	0	108	45-145	26.19	22.6	30	
Acetone	46.7	9.6	19.24	12.36	178	20-160	62.45	28.9	30	S
Benzene	13.84	4.8	19.24	0.2814	70.5	75-125	17.68	24.3	30	S
Bromodichloromethane	13.55	4.8	19.24	0	70.4	70-130	15.27	11.9	30	
Bromoform	9.649	4.8	19.24	0	50.2	55-135	10.66	9.99	30	S
Bromomethane	19.12	9.6	19.24	0	99.4	30-160	18.19	5.01	30	
Carbon disulfide	18.69	4.8	19.24	0.1809	96.2	45-160	24.53	27	30	
Carbon tetrachloride	16.84	4.8	19.24	0	87.5	65-135	22.31	28	30	
Chlorobenzene	12.21	4.8	19.24	0	63.4	75-125	14.71	18.6	30	S
Chloroethane	16.34	4.8	19.24	0	85	40-155	18.89	14.4	30	
Chloroform	14.37	4.8	19.24	0.335	73	70-125	16.87	16	30	
Chloromethane	14.58	9.6	19.24	0	75.8	50-130	16.5	12.3	30	
cis-1,2-Dichloroethene	15.34	4.8	19.24	0	79.8	65-125	18.11	16.6	30	
cis-1,3-Dichloropropene	11.66	4.8	19.24	0	60.6	70-125	13.47	14.4	30	S
Dibromochloromethane	11.48	4.8	19.24	0	59.6	65-135	12.26	6.56	30	S
Dichlorodifluoromethane	15.64	9.6	19.24	0	81.3	35-135	20.4	26.4	30	
Ethylbenzene	12.92	4.8	19.24	0.1206	66.5	75-125	17.27	28.8	30	S
Isopropylbenzene	13.27	4.8	19.24	0	69	75-130	17.83	29.4	30	S
m,p-Xylene	26.12	2.4	38.48	0.1876	67.4	80-125	34.47	27.6	30	S
Methyl tert-butyl ether	14.02	4.8	19.24	0	72.8	75-125	16.6	16.9	30	S
Methylene chloride	16.06	4.8	19.24	0	83.4	55-140	18.39	13.6	30	
o-Xylene	13.32	2.4	19.24	0	69.2	75-125	16.51	21.4	30	S
Styrene	11.83	4.8	19.24	0	61.5	75-125	14.24	18.5	30	S
Tetrachloroethene	17.94	4.8	19.24	0	93.2	65-140	20.13	11.5	30	
Toluene	13.49	4.8	19.24	0.4623	67.7	70-125	17.63	26.6	30	S
trans-1,2-Dichloroethene	15.29	4.8	19.24	0	79.4	65-135	19.65	25	30	
trans-1,3-Dichloropropene	11.49	9.6	19.24	0	59.7	65-125	12.54	8.73	30	S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117582** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	12.66	4.8	19.24	0	65.8	75-125	16.84	28.3	30	S
Trichlorofluoromethane	13.91	4.8	19.24	0	72.3	25-185	19.76	34.8	30	R
Vinyl chloride	16.27	4.8	19.24	0.5695	81.6	60-125	20.04	20.8	30	
Xylenes, Total	39.44	4.8	57.72	0.1876	68	75-125	50.98	25.5	30	S
Surr: 1,2-Dichloroethane-d4	*18.61*	0	*19.24*	0	*96.8*	*70-120*	21.95	*16.5*	*30*	
Surr: 4-Bromofluorobenzene	*19.26*	0	*19.24*	0	*100*	*75-120*	19.8	*2.78*	*30*	
Surr: Dibromofluoromethane	*19.53*	0	*19.24*	0	*102*	*85-115*	20.52	*4.93*	*30*	
Surr: Toluene-d8	*20.14*	0	*19.24*	0	*105*	*85-120*	19.85	*1.47*	*30*	

The following samples were analyzed in this batch:

1303495-01B	1303495-02B	1303495-03B
1303495-04B	1303495-05B	1303495-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-130321-R117689** Units: **µg/Kg** Analysis Date: **3/21/2013 02:37 PM**

Client ID: Run ID: **VMS7_130321A** SeqNo: **2245041** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.61	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	U	5.0								
o-Xylene	U	2.5								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	10					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	5.0					
Xylenes, Total	U	5.0					
Surr: 1,2-Dichloroethane-d4	*21.61*	0	*20*	0	*108*	*70-120*	0
Surr: 4-Bromofluorobenzene	*21.33*	0	*20*	0	*107*	*75-120*	0
Surr: Dibromofluoromethane	*19.95*	0	*20*	0	*99.8*	*85-115*	0
Surr: Toluene-d8	*20.15*	0	*20*	0	*101*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS1-130321-R117689** Units: **µg/Kg** Analysis Date: **3/21/2013 01:18 PM**

Client ID: Run ID: **VMS7_130321A** SeqNo: **2245038** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.82	5.0	20	0	99.1	70-135	0			
1,1,2,2-Tetrachloroethane	18.28	5.0	20	0	91.4	55-130	0			
1,1,2-Trichloroethane	17.41	5.0	20	0	87	60-125	0			
1,1-Dichloroethane	19.73	5.0	20	0	98.6	75-125	0			
1,1-Dichloroethene	20.34	5.0	20	0	102	65-135	0			
1,2,4-Trichlorobenzene	18.61	5.0	20	0	93	65-130	0			
1,2-Dibromo-3-chloropropane	18.71	5.0	20	0	93.6	40-135	0			
1,2-Dibromoethane	29.5	5.0	20	0	148	70-125	0			S
1,2-Dichlorobenzene	18.66	5.0	20	0	93.3	75-120	0			
1,2-Dichloroethane	19.04	5.0	20	0	95.2	70-135	0			
1,2-Dichloropropane	19.47	5.0	20	0	97.4	70-120	0			
1,3-Dichlorobenzene	18.62	5.0	20	0	93.1	70-125	0			
1,4-Dichlorobenzene	18.75	5.0	20	0	93.8	70-125	0			
2-Butanone	22.41	10	20	0	112	30-160	0			
2-Hexanone	21.42	5.0	20	0	107	45-145	0			
4-Methyl-2-pentanone	26.45	5.0	20	0	132	45-145	0			
Benzene	19.15	5.0	20	0	95.8	75-125	0			
Bromodichloromethane	20.2	5.0	20	0	101	70-130	0			
Bromoform	18.38	5.0	20	0	91.9	55-135	0			
Bromomethane	17.93	10	20	0	89.6	30-160	0			
Carbon disulfide	24.45	5.0	20	0	122	45-160	0			
Carbon tetrachloride	22.4	5.0	20	0	112	65-135	0			
Chlorobenzene	18.94	5.0	20	0	94.7	75-125	0			
Chloroethane	19.33	5.0	20	0	96.6	40-155	0			
Chloroform	18.78	5.0	20	0	93.9	70-125	0			
Chloromethane	16.75	10	20	0	83.8	50-130	0			
cis-1,2-Dichloroethene	20.5	5.0	20	0	102	65-125	0			
cis-1,3-Dichloropropene	19.44	5.0	20	0	97.2	70-125	0			
Dibromochloromethane	18.77	5.0	20	0	93.8	65-135	0			
Dichlorodifluoromethane	18.52	10	20	0	92.6	35-135	0			
Ethylbenzene	19.3	5.0	20	0	96.5	75-125	0			
Isopropylbenzene	19.07	5.0	20	0	95.4	75-130	0			
m,p-Xylene	38.73	2.5	40	0	96.8	80-125	0			
Methyl tert-butyl ether	20.03	5.0	20	0	100	75-125	0			
Methylene chloride	19.77	5.0	20	0	98.8	55-140	0			
o-Xylene	19.13	2.5	20	0	95.6	75-125	0			
Styrene	19.18	5.0	20	0	95.9	75-125	0			
Tetrachloroethene	18.79	5.0	20	0	94	65-140	0			
Toluene	18.8	5.0	20	0	94	70-125	0			
trans-1,2-Dichloroethene	20.94	5.0	20	0	105	65-135	0			
trans-1,3-Dichloropropene	19.71	10	20	0	98.6	65-125	0			
Trichloroethene	18.18	5.0	20	0	90.9	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	18.38	5.0	20	0	91.9	25-185	0
Vinyl chloride	18.53	5.0	20	0	92.6	60-125	0
Xylenes, Total	57.86	5.0	60	0	96.4	75-125	0
Surr: 1,2-Dichloroethane-d4	*20.65*	0	*20*	0	*103*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.48*	0	*20*	0	*102*	*75-120*	0
Surr: Dibromofluoromethane	*20.04*	0	*20*	0	*100*	*85-115*	0
Surr: Toluene-d8	*19.76*	0	*20*	0	*98.8*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1303626-02A MS** Units: **µg/Kg** Analysis Date: **3/21/2013 08:40 PM**

Client ID: Run ID: **VMS7_130321A** SeqNo: **2245081** Prep Date: DF: **0.996**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.35	5.0	19.92	0	92.1	70-135	0			
1,1,2,2-Tetrachloroethane	14.61	5.0	19.92	0	73.4	55-130	0			
1,1,2-Trichloroethane	16.96	5.0	19.92	0	85.2	60-125	0			
1,1-Dichloroethane	19.61	5.0	19.92	0	98.4	75-125	0			
1,1-Dichloroethene	20.17	5.0	19.92	0	101	65-135	0			
1,2,4-Trichlorobenzene	5.767	5.0	19.92	0	29	65-130	0			S
1,2-Dibromo-3-chloropropane	13.53	5.0	19.92	0	67.9	40-135	0			
1,2-Dibromoethane	26.2	5.0	19.92	0	132	70-125	0			S
1,2-Dichlorobenzene	10.3	5.0	19.92	0	51.7	75-120	0			S
1,2-Dichloroethane	16.42	5.0	19.92	0	82.4	70-135	0			
1,2-Dichloropropane	17.03	5.0	19.92	0	85.5	70-120	0			
1,3-Dichlorobenzene	10.33	5.0	19.92	0	51.8	70-125	0			S
1,4-Dichlorobenzene	9.95	5.0	19.92	0	50	70-125	0			S
2-Butanone	34.35	10	19.92	36.03	-8.44	30-160	0			S
2-Hexanone	25.74	5.0	19.92	0	129	45-145	0			
4-Methyl-2-pentanone	23.26	5.0	19.92	0	117	45-145	0			
Benzene	17.55	5.0	19.92	0.3189	86.5	75-125	0			
Bromodichloromethane	15.11	5.0	19.92	0	75.8	70-130	0			
Bromoform	11.28	5.0	19.92	0	56.6	55-135	0			
Bromomethane	3.028	10	19.92	0	15.2	30-160	0			JS
Carbon disulfide	25.02	5.0	19.92	4.236	104	45-160	0			
Carbon tetrachloride	18.4	5.0	19.92	0	92.4	65-135	0			
Chlorobenzene	14.38	5.0	19.92	0	72.2	75-125	0			S
Chloroethane	22.45	5.0	19.92	0	113	40-155	0			
Chloroform	17.81	5.0	19.92	0.2713	88	70-125	0			
Chloromethane	11.96	10	19.92	0	60	50-130	0			
cis-1,2-Dichloroethene	15.93	5.0	19.92	0	80	65-125	0			
cis-1,3-Dichloropropene	13.58	5.0	19.92	0	68.2	70-125	0			S
Dibromochloromethane	12.89	5.0	19.92	0	64.7	65-135	0			S
Dichlorodifluoromethane	18.04	10	19.92	0	90.6	35-135	0			
Ethylbenzene	14.84	5.0	19.92	0.1571	73.7	75-125	0			S
Isopropylbenzene	14.51	5.0	19.92	0	72.8	75-130	0			S
m,p-Xylene	29.19	2.5	39.84	0.4094	72.2	80-125	0			S
Methyl tert-butyl ether	16.26	5.0	19.92	0	81.6	75-125	0			
Methylene chloride	20.04	5.0	19.92	0	101	55-140	0			
o-Xylene	14.68	2.5	19.92	0.1333	73	75-125	0			S
Styrene	11.88	5.0	19.92	0	59.6	75-125	0			S
Tetrachloroethene	19.13	5.0	19.92	0	96	65-140	0			
Toluene	17.41	5.0	19.92	0.6616	84.1	70-125	0			
trans-1,2-Dichloroethene	20.62	5.0	19.92	0	104	65-135	0			
trans-1,3-Dichloropropene	14.39	10	19.92	0	72.2	65-125	0			
Trichloroethene	16.85	5.0	19.92	0	84.6	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	17.76	5.0	19.92	0	89.2	25-185	0	
Vinyl chloride	15.11	5.0	19.92	0	75.8	60-125	0	
Xylenes, Total	43.87	5.0	59.76	0.5426	72.5	75-125	0	S
Surr: 1,2-Dichloroethane-d4	*19.45*	0	*19.92*	0	*97.6*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*21.49*	0	*19.92*	0	*108*	*75-120*	0	
Surr: Dibromofluoromethane	*20.13*	0	*19.92*	0	*101*	*85-115*	0	
Surr: Toluene-d8	*21.15*	0	*19.92*	0	*106*	*85-120*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1303626-02A MSD** Units: **µg/Kg** Analysis Date: **3/21/2013 09:07 PM**

Client ID: Run ID: **VMS7_130321A** SeqNo: **2245083** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.28	5.0	20	0	76.4	70-135	18.35	18.2	30	
1,1,2,2-Tetrachloroethane	14.36	5.0	20	0	71.8	55-130	14.61	1.73	30	
1,1,2-Trichloroethane	16.36	5.0	20	0	81.8	60-125	16.96	3.61	30	
1,1-Dichloroethane	18.54	5.0	20	0	92.7	75-125	19.61	5.62	30	
1,1-Dichloroethene	19.78	5.0	20	0	98.9	65-135	20.17	1.95	30	
1,2,4-Trichlorobenzene	4.88	5.0	20	0	24.4	65-130	5.767	0	30	JS
1,2-Dibromo-3-chloropropane	13.06	5.0	20	0	65.3	40-135	13.53	3.5	30	
1,2-Dibromoethane	24.29	5.0	20	0	121	70-125	26.2	7.58	30	
1,2-Dichlorobenzene	8.87	5.0	20	0	44.4	75-120	10.3	14.9	30	S
1,2-Dichloroethane	13.66	5.0	20	0	68.3	70-135	16.42	18.4	30	S
1,2-Dichloropropane	17.01	5.0	20	0	85	70-120	17.03	0.127	30	
1,3-Dichlorobenzene	8.99	5.0	20	0	45	70-125	10.33	13.9	30	S
1,4-Dichlorobenzene	8.52	5.0	20	0	42.6	70-125	9.95	15.5	30	S
2-Butanone	33.79	10	20	36.03	-11.2	30-160	34.35	1.65	30	S
2-Hexanone	25.51	5.0	20	0	128	45-145	25.74	0.885	30	
4-Methyl-2-pentanone	22.77	5.0	20	0	114	45-145	23.26	2.11	30	
Benzene	16.55	5.0	20	0.3189	81.2	75-125	17.55	5.86	30	
Bromodichloromethane	13.92	5.0	20	0	69.6	70-130	15.11	8.19	30	S
Bromoform	9.77	5.0	20	0	48.8	55-135	11.28	14.4	30	S
Bromomethane	6.76	10	20	0	33.8	30-160	3.028	0	30	J
Carbon disulfide	23.15	5.0	20	4.236	94.6	45-160	25.02	7.76	30	
Carbon tetrachloride	15.24	5.0	20	0	76.2	65-135	18.4	18.8	30	
Chlorobenzene	13.79	5.0	20	0	69	75-125	14.38	4.2	30	S
Chloroethane	21.76	5.0	20	0	109	40-155	22.45	3.12	30	
Chloroform	15.13	5.0	20	0.2713	74.3	70-125	17.81	16.3	30	
Chloromethane	11.82	10	20	0	59.1	50-130	11.96	1.19	30	
cis-1,2-Dichloroethene	16.12	5.0	20	0	80.6	65-125	15.93	1.21	30	
cis-1,3-Dichloropropene	12.35	5.0	20	0	61.8	70-125	13.58	9.45	30	S
Dibromochloromethane	11.13	5.0	20	0	55.6	65-135	12.89	14.6	30	S
Dichlorodifluoromethane	17	10	20	0	85	35-135	18.04	5.92	30	
Ethylbenzene	14.27	5.0	20	0.1571	70.6	75-125	14.84	3.92	30	S
Isopropylbenzene	13.73	5.0	20	0	68.6	75-130	14.51	5.54	30	S
m,p-Xylene	28.2	2.5	40	0.4094	69.5	80-125	29.19	3.46	30	S
Methyl tert-butyl ether	16.14	5.0	20	0	80.7	75-125	16.26	0.77	30	
Methylene chloride	19.54	5.0	20	0	97.7	55-140	20.04	2.52	30	
o-Xylene	14.34	2.5	20	0.1333	71	75-125	14.68	2.35	30	S
Styrene	10.43	5.0	20	0	52.2	75-125	11.88	13	30	S
Tetrachloroethene	17.58	5.0	20	0	87.9	65-140	19.13	8.46	30	
Toluene	15.98	5.0	20	0.6616	76.6	70-125	17.41	8.57	30	
trans-1,2-Dichloroethene	19.14	5.0	20	0	95.7	65-135	20.62	7.43	30	
trans-1,3-Dichloropropene	12.44	10	20	0	62.2	65-125	14.39	14.6	30	S
Trichloroethene	16.59	5.0	20	0	83	75-125	16.85	1.57	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117689** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	16.71	5.0	20	0	83.6	25-185	17.76	6.08	30	
Vinyl chloride	17.61	5.0	20	0	88	60-125	15.11	15.3	30	
Xylenes, Total	42.54	5.0	60	0.5426	70	75-125	43.87	3.09	30	S
Surr: 1,2-Dichloroethane-d4	*18.04*	0	*20*	0	*90.2*	*70-120*	19.45	*7.53*	*30*	
Surr: 4-Bromofluorobenzene	*20.54*	0	*20*	0	*103*	*75-120*	21.49	*4.54*	*30*	
Surr: Dibromofluoromethane	*18.32*	0	*20*	0	*91.6*	*85-115*	20.13	*9.41*	*30*	
Surr: Toluene-d8	*19.99*	0	*20*	0	*100*	*85-120*	21.15	*5.62*	*30*	

The following samples were analyzed in this batch: 1303495-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303495
Project: Municipal Farms-MCI, Kansas City, MO 3/15/13

QC BATCH REPORT

Batch ID: **R117517** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R117517** Units: **% of sample** Analysis Date: **3/18/2013 02:49 PM**
Client ID: Run ID: **MOIST_130318C** SeqNo: **2239649** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R117517** Units: **% of sample** Analysis Date: **3/18/2013 02:49 PM**
Client ID: Run ID: **MOIST_130318C** SeqNo: **2239645** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1303489-04ADUP** Units: **% of sample** Analysis Date: **3/18/2013 02:49 PM**
Client ID: Run ID: **MOIST_130318C** SeqNo: **2239627** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	32.57	0.050	0	0	0	0-0	32.73	0.49	20	

DUP Sample ID: **1303489-13ADUP** Units: **% of sample** Analysis Date: **3/18/2013 02:49 PM**
Client ID: Run ID: **MOIST_130318C** SeqNo: **2239637** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	25.13	0.050	0	0	0	0-0	28.94	14.1	20	

The following samples were analyzed in this batch:

1303495-01A	1303495-02A	1303495-03A
1303495-04A	1303495-05A	1303495-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

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Chain of Custody Form

Page 1 of 1

COC ID: 69956

ALS Project Manager: | ALS Work Order #: 1303495

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Municipal Farms-MCI	A	TCL Volatiles with GRO (C6-C10)
Work Order		Project Number		B	TCL SVOcs with DRO (C10-C21), ORO (C21-C35)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	Full List Herbicides
Send Report To	Emily Fisher	Invoice Attn	Emily Fisher	D	TCL Pesticides
Address	415 Oak Street	Address	415 Oak Street	E	RCRA 8 Metals-Dissolved
				F	RCRA 8 Metals-Total
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	Grain Size ASTM D422-No Hydrometer
Phone	(816) 412-1755	Phone	(816) 412-1755	H	% Moisture
Fax	(816) 410-1748	Fax	(816) 410-1748	I	TSS
e-Mail Address		e-Mail Address	3/16/13	J	Project Specific MS/MSD on this sample point

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SS-1	3/16/13	0805	Soil		6	X	X	X	X	~~X~~	X		X			
2	SS-2		0821								~~X~~						
3	SS-3		0843								~~X~~						
4	SS-4		0858				X	X			~~X~~						
5	SS-5		0919				X	X	X	X	~~X~~						
6	SS-6		0946								~~X~~						
7	Trip	NA	NA	NA		4	X	X									
8																	
9		End of Job										3/16/13					
10																	

Sampler(s) Please Print & Sign: Kaitlyn Barr Kait Barr

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Kait Barr	3/16/13	4:00PM	FEDEX
Relinquished by: FEDEX	Date: 3/16/13	Time: 1000	Received by (Laboratory):
Logged by (Laboratory): KR	Date: 3/16/13	Time: 1025	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
	3.4 °C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **TETRATECH - MO** Date/Time Received: **16-Mar-13 10:00**

Work Order: **1303495** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 16-Mar-13 (Date) Reviewed by: Ann Preston (eSignature) 16-Mar-13 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4 C		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	3/16/2013 10:52:42 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes: Sampling dates changed to 3/15/13 from 3/16/13. Samples were received on 3/15/13.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

00048

00052

FedEx Express Package US Airbill

FedEx Tracking Number 8024 5822 5868

MUR3

Recipient's Copy

1 From

Date 3/15/13

Sender's Name [redacted] Phone 816 412-1741

Company TETRA TECH EM INC

Address 415 OAK ST Dept./Floor/Suite/Room

City KANSAS CITY State MO ZIP 64106-1120

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company ALS Laboratory

Address 3352 128th Avenue Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday

4 Express Package Service *To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube [x] Other

6 Special Handling and Delivery Signature Options

[x] SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

[x] No Yes Yes

Total Weight lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL

Date: 3/15/13 Time: 4:00PM

Name: [illegible]

Company: Tetra Tech

Seal Broken By: Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

8024 5822 5868

Standard Terms & Conditions

Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated herein.

...ion period, an additional charge will apply for the preparation and ...rts.

...s of its name in connection with any unauthorized ...or written consent.

...onal charges may be necessary for customized ...ntly from the ALS standard format. Additional QA/QC report formats, such as data packages or ...e additional time for preparation. Please ask for a ...ts or copies thereof will be sent to anyone other formally requests us to do so in writing. Should a ...ies of data packages to client or third party, an ...over administrative costs.)

...sed portions of samples found or suspected to be ...federal guidelines may be returned to the client ...tical work. These include sample known or ...materials as defined by state or federal regulatory ...g the sample may be invoiced to the client. The ...ain the property of the client at all times.

...iated with compliance to any subpoena or other ...for testimony in a court of law, or for any other ...med by ALS, in connection with work performed ...the client. Such costs shall include, but are not ...sons involved in responding to subpoenas, travel ...attorney's preparation of testifier and advice of ...response to subpoenas, and all other expenses ...ed with said litigation.

... In the event of any legal proceeding, neither ...ial by jury, and both parties waive any right they ...or otherwise to a right to a trial by jury.

...and Insurance ... ALS agrees to indemnify, ...its officers, directors, employees, agents, and ...all losses, expenses, demands, and claims made ...directors, employees, agents, and representatives ..., death, or property damage to the extent caused ...misconduct of ALS, its employees, agents, or ...with the performance of services under this ...such losses, expenses demands, or claims occur ...illful acts or omissions of the client, its officers, ...d representatives; however, such indemnification ...gate, be limited to an amount equal to the lesser ...client as the direct result thereof, or (b) the total ...LS for the work herein covered. ALS will, if ...sh certificates of insurance from its carrier(s) ...e coverage.

Liability ... In accepting analytical work, we ...results for the sample as submitted. THE WARRANTY IS EXCLUSIVE AND IS ...R ALL OTHER WARRANTIES, ...IED. WE DISCLAIM ANY OTHER ...SSED OR IMPLIED, INCLUDING A ...S FOR PARTICULAR PURPOSE AND ...CHANTABILITY. IN NO EVENT ...BLE FOR INDIRECT, SPECIAL, INCENTAL DAMAGES INCLUDING ..., DAMAGES FOR LOSS OF PROFIT ...RDLESS OF (A) THE NEGLIGENCE ...ONCURRENT) OF ALS AND (B) ...S BEEN INFORMED FO THE ...CH DAMAGES. We accept no legal ...for which the client uses the test results. No ...r work shall be accepted by ALS which includes ...n the above described Standard Terms and ...jects to any conflicting terms contained in any ...client.

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17-Apr-2013

Emily Fisher
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Municipal Farms-MCI 3/22/13** Work Order: **1303834**

Dear Emily,

ALS Environmental received 14 samples on 26-Mar-2013 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 154.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

ALS Group USA, Corp

Date: 17-Apr-13

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Work Order: **1303834**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1303834-01	SB-1 (6-8')	Soil		3/22/2013 08:45	3/26/2013 09:30	☐
1303834-02	SB-1 (10-12')	Soil		3/22/2013 08:35	3/26/2013 09:30	☐
1303834-03	SB-2 (5-7')	Soil		3/22/2013 09:35	3/26/2013 09:30	☐
1303834-04	SB-2 (7-9')	Soil		3/22/2013 09:45	3/26/2013 09:30	☐
1303834-05	SB-3 (7-9')	Soil		3/22/2013 10:15	3/26/2013 09:30	☐
1303834-06	SB-4 (6-8')	Soil		3/22/2013 10:50	3/26/2013 09:30	☐
1303834-07	SB-4 (8-10')	Soil		3/22/2013 11:00	3/26/2013 09:30	☐
1303834-08	SB-5 (3-5')	Soil		3/22/2013 11:40	3/26/2013 09:30	☐
1303834-09	SB-6 (6-8')	Soil		3/22/2013 12:15	3/26/2013 09:30	☐
1303834-10	SB-6 (11-13')	Soil		3/22/2013 12:20	3/26/2013 09:30	☐
1303834-11	Field Blank	Water		3/22/2013 17:30	3/26/2013 09:30	☐
1303834-12	Rinsate Blank	Water		3/22/2013 18:00	3/26/2013 09:30	☐
1303834-13	Trip Blank - Soil	Soil		3/22/2013	3/26/2013 09:30	☐
1303834-14	Trip Blank - Water	Water		3/22/2013	3/26/2013 09:30	☐

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Work Order: 1303834

Case Narrative

This revised report includes the hydrometer soil classifications for the Grain Size.

Batches 47224 and 47263 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 47241 LCS recovery for Carbazole was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for Carbazole. Sample SB-6 (6-8) MS/MSD recoveries for Carbazole were above control limits. The corresponding result in the parent sample was non-detect. No qualification is required for Carbazole. The MSD recovery for Hexachlorocyclopentadiene was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for Hexachlorocyclopentadiene.

Batch 47245 sample Rinsate Blank MS/MSD recoveries for Dalapon were below the control limit. The corresponding reporting limit in the parent sample may be biased low for Dalapon.

Batches R117960 and R118006A LCS recovery for 4-Methyl-2-Pentanone was outside of the upper control limit but within the Sporadic Marginal Exceedence limit for an analyte that is not a project-specific analyte of concern. No qualification is necessary for 4-Methyl-2-Pentanone. The MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

All Volatiles analyses run with the TSP preservative had one low surrogate recovery. This low surrogate recovery is due to the preservative, not the matrix. No data requires qualification.

Batch R118032 LCS recoveries for 4-Methyl-2-Pentanone and MTBE were outside of the upper control limit All sample results in the batch were non-detect. No qualification is necessary for 4-Methyl-2-Pentanone or MTBE. Sample SB-1 (6-8') RPD between the MS and MSD for Bromomethane and the MSD recoveries for several compounds were outside of the control limits. Both the MS recoveries and RPDs for the several compounds, and the MS/MSDs for Bromomethane met quality control criteria. No data requires qualification.

ALS Group USA, Corp

Date: 17-Apr-13

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
WorkOrder: **1303834**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
% Passing	Percent Passing
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (6-8')
Collection Date: 3/22/2013 08:45 AM

Work Order: 1303834
Lab ID: 1303834-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/27/13		Analyst: **LR**
Mercury	**0.039**		**0.00091**	**0.018**	**mg/Kg-dry**	1	3/28/2013 17:07
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/27/13		Analyst: **RH**
Arsenic	**6.7**		**0.063**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:09
Barium	**150**		**0.013**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:09
Cadmium	**0.47**		**0.0018**	**0.18**	**mg/Kg-dry**	1	3/29/2013 17:09
Chromium	**24**		**0.076**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:09
Lead	**19**		**0.0018**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:09
Selenium	**0.94**		**0.059**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:09
Silver	**0.045**	J	**0.0018**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:09
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.4	mg/Kg-dry	1	4/1/2013 10:06
ORO (C21-C35)	**17**		**1.6**	**3.4**	**mg/Kg-dry**	1	4/1/2013 10:06
Surr: 4-Terphenyl-d14	*105*			*25-137*	*%REC*	1	4/1/2013 10:06
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		5.8	380	µg/Kg-dry	1	4/1/2013 10:06
2,4,5-Trichlorophenol	U		9.3	190	µg/Kg-dry	1	4/1/2013 10:06
2,4,6-Trichlorophenol	U		9.3	190	µg/Kg-dry	1	4/1/2013 10:06
2,4-Dichlorophenol	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
2,4-Dimethylphenol	U		47	380	µg/Kg-dry	1	4/1/2013 10:06
2,4-Dinitrophenol	U		49	770	µg/Kg-dry	1	4/1/2013 10:06
2,4-Dinitrotoluene	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
2,6-Dinitrotoluene	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
2-Chloronaphthalene	U		11	93	µg/Kg-dry	1	4/1/2013 10:06
2-Chlorophenol	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
2-Methylnaphthalene	U		11	93	µg/Kg-dry	1	4/1/2013 10:06
2-Methylphenol	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
2-Nitroaniline	U		8.9	770	µg/Kg-dry	1	4/1/2013 10:06
2-Nitrophenol	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
3,3´-Dichlorobenzidine	U		11	770	µg/Kg-dry	1	4/1/2013 10:06
3-Nitroaniline	U		94	770	µg/Kg-dry	1	4/1/2013 10:06
4,6-Dinitro-2-methylphenol	U		56	380	µg/Kg-dry	1	4/1/2013 10:06
4-Bromophenyl phenyl ether	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
4-Chloro-3-methylphenol	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
4-Chloroaniline	U		15	770	µg/Kg-dry	1	4/1/2013 10:06
4-Chlorophenyl phenyl ether	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
4-Methylphenol	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
4-Nitroaniline	U		17	770	µg/Kg-dry	1	4/1/2013 10:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (6-8')
Collection Date: 3/22/2013 08:45 AM

Work Order: 1303834
Lab ID: 1303834-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		47	770	µg/Kg-dry	1	4/1/2013 10:06
Acenaphthene	U		11	35	µg/Kg-dry	1	4/1/2013 10:06
Acenaphthylene	U		11	35	µg/Kg-dry	1	4/1/2013 10:06
Acetophenone	U		5.8	380	µg/Kg-dry	1	4/1/2013 10:06
Anthracene	U		12	35	µg/Kg-dry	1	4/1/2013 10:06
Atrazine	U		12	380	µg/Kg-dry	1	4/1/2013 10:06
Benzaldehyde	U		15	380	µg/Kg-dry	1	4/1/2013 10:06
Benzo(a)anthracene	U		14	35	µg/Kg-dry	1	4/1/2013 10:06
Benzo(a)pyrene	U		18	35	µg/Kg-dry	1	4/1/2013 10:06
Benzo(b)fluoranthene	U		19	35	µg/Kg-dry	1	4/1/2013 10:06
Benzo(g,h,i)perylene	U		27	35	µg/Kg-dry	1	4/1/2013 10:06
Benzo(k)fluoranthene	U		16	35	µg/Kg-dry	1	4/1/2013 10:06
Bis(2-chloroethoxy)methane	U		9.5	190	µg/Kg-dry	1	4/1/2013 10:06
Bis(2-chloroethyl)ether	U		9.7	190	µg/Kg-dry	1	4/1/2013 10:06
Bis(2-chloroisopropyl)ether	U		9.1	190	µg/Kg-dry	1	4/1/2013 10:06
Bis(2-ethylhexyl)phthalate	U		12	380	µg/Kg-dry	1	4/1/2013 10:06
Butyl benzyl phthalate	U		16	190	µg/Kg-dry	1	4/1/2013 10:06
Caprolactam	U		17	380	µg/Kg-dry	1	4/1/2013 10:06
Carbazole	U		13	190	µg/Kg-dry	1	4/1/2013 10:06
Chrysene	U		13	35	µg/Kg-dry	1	4/1/2013 10:06
Dibenzo(a,h)anthracene	U		20	35	µg/Kg-dry	1	4/1/2013 10:06
Dibenzofuran	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
Diethyl phthalate	U		9.7	380	µg/Kg-dry	1	4/1/2013 10:06
Dimethyl phthalate	U		9.7	380	µg/Kg-dry	1	4/1/2013 10:06
Di-n-butyl phthalate	U		12	380	µg/Kg-dry	1	4/1/2013 10:06
Di-n-octyl phthalate	U		14	190	µg/Kg-dry	1	4/1/2013 10:06
Fluoranthene	U		14	35	µg/Kg-dry	1	4/1/2013 10:06
Fluorene	U		10	35	µg/Kg-dry	1	4/1/2013 10:06
Hexachlorobenzene	U		11	190	µg/Kg-dry	1	4/1/2013 10:06
Hexachlorobutadiene	U		9.8	190	µg/Kg-dry	1	4/1/2013 10:06
Hexachlorocyclopentadiene	U		41	380	µg/Kg-dry	1	4/1/2013 10:06
Hexachloroethane	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
Indeno(1,2,3-cd)pyrene	U		22	35	µg/Kg-dry	1	4/1/2013 10:06
Isophorone	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
Naphthalene	U		9.9	35	µg/Kg-dry	1	4/1/2013 10:06
Nitrobenzene	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
N-Nitrosodi-n-propylamine	U		10	190	µg/Kg-dry	1	4/1/2013 10:06
N-Nitrosodiphenylamine	U		69	190	µg/Kg-dry	1	4/1/2013 10:06
Pentachlorophenol	U		17	380	µg/Kg-dry	1	4/1/2013 10:06
Phenanthrene	U		35	35	µg/Kg-dry	1	4/1/2013 10:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (6-8')
Collection Date: 3/22/2013 08:45 AM

Work Order: 1303834
Lab ID: 1303834-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		9.8	190	µg/Kg-dry	1	4/1/2013 10:06
Pyrene	U		15	35	µg/Kg-dry	1	4/1/2013 10:06
Surr: 2,4,6-Tribromophenol	*73.5*			*34-140*	*%REC*	1	4/1/2013 10:06
Surr: 2-Fluorobiphenyl	*78.9*			*12-100*	*%REC*	1	4/1/2013 10:06
Surr: 2-Fluorophenol	*86.5*			*33-117*	*%REC*	1	4/1/2013 10:06
Surr: 4-Terphenyl-d14	*105*			*25-137*	*%REC*	1	4/1/2013 10:06
Surr: Nitrobenzene-d5	*81.8*			*37-107*	*%REC*	1	4/1/2013 10:06
Surr: Phenol-d6	*89.1*			*40-106*	*%REC*	1	4/1/2013 10:06
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,500		µg/Kg-dry	1	3/28/2013 04:19
Surr: Toluene-d8	*89.4*			*70-130*	*%REC*	1	3/28/2013 04:19
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.25	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,1,2,2-Tetrachloroethane	U		0.16	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,1,2-Trichloroethane	U		0.22	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,1,2-Trichlorotrifluoroethane	U		0.31	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,1-Dichloroethane	U		0.29	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,1-Dichloroethene	U		0.26	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,2,4-Trichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,2-Dibromo-3-chloropropane	U		0.22	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,2-Dibromoethane	U		0.23	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,2-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,2-Dichloroethane	U		0.31	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,2-Dichloropropane	U		0.29	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,3-Dichlorobenzene	U		0.21	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
1,4-Dichlorobenzene	U		0.24	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
2-Butanone	**1.3**	J	**0.87**	**11**	**µg/Kg-dry**	0.951	3/28/2013 15:37
2-Hexanone	U		0.34	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
4-Methyl-2-pentanone	U		0.22	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Acetone	**16**		**1.1**	**11**	**µg/Kg-dry**	0.951	3/28/2013 15:37
Benzene	U		0.28	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Bromodichloromethane	U		0.23	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Bromoform	U		0.17	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Bromomethane	U		0.40	11	µg/Kg-dry	0.951	3/28/2013 15:37
Carbon disulfide	**0.67**	J	**0.42**	**5.6**	**µg/Kg-dry**	0.951	3/28/2013 15:37
Carbon tetrachloride	U		0.23	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Chlorobenzene	U		0.25	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Chloroethane	U		0.63	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Chloroform	**0.58**	J	**0.30**	**5.6**	**µg/Kg-dry**	0.951	3/28/2013 15:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (6-8')
Collection Date: 3/22/2013 08:45 AM

Work Order: 1303834
Lab ID: 1303834-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.35	11	µg/Kg-dry	0.951	3/28/2013 15:37
cis-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
cis-1,3-Dichloropropene	U		0.20	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Cyclohexane	U		0.36	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Dibromochloromethane	U		0.19	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Dichlorodifluoromethane	U		0.38	11	µg/Kg-dry	0.951	3/28/2013 15:37
Ethylbenzene	U		0.22	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Isopropylbenzene	U		0.22	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
m,p-Xylene	U		0.43	2.8	µg/Kg-dry	0.951	3/28/2013 15:37
Methyl acetate	U		0.91	11	µg/Kg-dry	0.951	3/28/2013 15:37
Methyl tert-butyl ether	U		0.29	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Methylcyclohexane	U		0.31	11	µg/Kg-dry	0.951	3/28/2013 15:37
Methylene chloride	**0.94**	J	**0.32**	**5.6**	**µg/Kg-dry**	0.951	3/28/2013 15:37
o-Xylene	U		0.22	2.8	µg/Kg-dry	0.951	3/28/2013 15:37
Styrene	U		0.21	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Tetrachloroethene	U		0.34	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Toluene	U		0.27	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
trans-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.951	3/28/2013 15:37
Trichloroethene	U		0.26	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Trichlorofluoromethane	U		1.3	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Vinyl chloride	U		0.34	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Xylenes, Total	U		0.65	5.6	µg/Kg-dry	0.951	3/28/2013 15:37
Surr: 1,2-Dichloroethane-d4	*100*			*70-120*	*%REC*	0.951	3/28/2013 15:37
Surr: 4-Bromofluorobenzene	*104*			*75-120*	*%REC*	0.951	3/28/2013 15:37
Surr: Dibromofluoromethane	*15.4*	S		*85-115*	*%REC*	0.951	3/28/2013 15:37
Surr: Toluene-d8	*98.2*			*85-120*	*%REC*	0.951	3/28/2013 15:37
MOISTURE		Method:	**A2540 G**				Analyst: **DC**
Moisture	**16**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (10-12')
Collection Date: 3/22/2013 08:35 AM

Work Order: 1303834
Lab ID: 1303834-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/27/13		Analyst: **LR**
Mercury	**0.030**		**0.00091**	**0.018**	**mg/Kg-dry**	1	3/28/2013 17:09
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/27/13		Analyst: **RH**
Arsenic	**3.7**		**0.063**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:15
Barium	**380**		**0.13**	**4.6**	**mg/Kg-dry**	10	4/1/2013 18:59
Cadmium	**0.32**		**0.0019**	**0.19**	**mg/Kg-dry**	1	3/29/2013 17:15
Chromium	**25**		**0.076**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:15
Lead	**16**		**0.0019**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:15
Selenium	**1.0**		**0.059**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:15
Silver	**0.045**	J	**0.0019**	**0.46**	**mg/Kg-dry**	1	3/29/2013 17:15
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	4/1/2013 10:36
ORO (C21-C35)	**10**		**1.8**	**3.7**	**mg/Kg-dry**	1	4/1/2013 10:36
Surr: 4-Terphenyl-d14	*104*			*25-137*	*%REC*	1	4/1/2013 10:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.4	420	µg/Kg-dry	1	4/1/2013 10:36
2,4,5-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 10:36
2,4,6-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 10:36
2,4-Dichlorophenol	U		12	210	µg/Kg-dry	1	4/1/2013 10:36
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	4/1/2013 10:36
2,4-Dinitrophenol	U		54	850	µg/Kg-dry	1	4/1/2013 10:36
2,4-Dinitrotoluene	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
2,6-Dinitrotoluene	U		12	210	µg/Kg-dry	1	4/1/2013 10:36
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	4/1/2013 10:36
2-Chlorophenol	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
2-Methylnaphthalene	U		13	100	µg/Kg-dry	1	4/1/2013 10:36
2-Methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 10:36
2-Nitroaniline	U		9.8	850	µg/Kg-dry	1	4/1/2013 10:36
2-Nitrophenol	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
3,3´-Dichlorobenzidine	U		12	850	µg/Kg-dry	1	4/1/2013 10:36
3-Nitroaniline	U		100	850	µg/Kg-dry	1	4/1/2013 10:36
4,6-Dinitro-2-methylphenol	U		62	420	µg/Kg-dry	1	4/1/2013 10:36
4-Bromophenyl phenyl ether	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
4-Chloro-3-methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 10:36
4-Chloroaniline	U		16	850	µg/Kg-dry	1	4/1/2013 10:36
4-Chlorophenyl phenyl ether	U		12	210	µg/Kg-dry	1	4/1/2013 10:36
4-Methylphenol	U		13	210	µg/Kg-dry	1	4/1/2013 10:36
4-Nitroaniline	U		19	850	µg/Kg-dry	1	4/1/2013 10:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (10-12')
Collection Date: 3/22/2013 08:35 AM

Work Order: 1303834
Lab ID: 1303834-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		52	850	µg/Kg-dry	1	4/1/2013 10:36
Acenaphthene	U		12	38	µg/Kg-dry	1	4/1/2013 10:36
Acenaphthylene	U		12	38	µg/Kg-dry	1	4/1/2013 10:36
Acetophenone	U		6.4	420	µg/Kg-dry	1	4/1/2013 10:36
Anthracene	U		13	38	µg/Kg-dry	1	4/1/2013 10:36
Atrazine	U		13	420	µg/Kg-dry	1	4/1/2013 10:36
Benzaldehyde	U		16	420	µg/Kg-dry	1	4/1/2013 10:36
Benzo(a)anthracene	U		16	38	µg/Kg-dry	1	4/1/2013 10:36
Benzo(a)pyrene	U		20	38	µg/Kg-dry	1	4/1/2013 10:36
Benzo(b)fluoranthene	U		21	38	µg/Kg-dry	1	4/1/2013 10:36
Benzo(g,h,i)perylene	U		30	38	µg/Kg-dry	1	4/1/2013 10:36
Benzo(k)fluoranthene	U		17	38	µg/Kg-dry	1	4/1/2013 10:36
Bis(2-chloroethoxy)methane	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
Bis(2-chloroethyl)ether	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
Bis(2-chloroisopropyl)ether	U		10	210	µg/Kg-dry	1	4/1/2013 10:36
Bis(2-ethylhexyl)phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 10:36
Butyl benzyl phthalate	U		18	210	µg/Kg-dry	1	4/1/2013 10:36
Caprolactam	U		19	420	µg/Kg-dry	1	4/1/2013 10:36
Carbazole	U		15	210	µg/Kg-dry	1	4/1/2013 10:36
Chrysene	U		15	38	µg/Kg-dry	1	4/1/2013 10:36
Dibenzo(a,h)anthracene	U		22	38	µg/Kg-dry	1	4/1/2013 10:36
Dibenzofuran	U		12	210	µg/Kg-dry	1	4/1/2013 10:36
Diethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 10:36
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 10:36
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 10:36
Di-n-octyl phthalate	U		16	210	µg/Kg-dry	1	4/1/2013 10:36
Fluoranthene	U		15	38	µg/Kg-dry	1	4/1/2013 10:36
Fluorene	U		11	38	µg/Kg-dry	1	4/1/2013 10:36
Hexachlorobenzene	U		12	210	µg/Kg-dry	1	4/1/2013 10:36
Hexachlorobutadiene	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
Hexachlorocyclopentadiene	U		45	420	µg/Kg-dry	1	4/1/2013 10:36
Hexachloroethane	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
Indeno(1,2,3-cd)pyrene	U		24	38	µg/Kg-dry	1	4/1/2013 10:36
Isophorone	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
Naphthalene	U		11	38	µg/Kg-dry	1	4/1/2013 10:36
Nitrobenzene	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
N-Nitrosodi-n-propylamine	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
N-Nitrosodiphenylamine	U		76	210	µg/Kg-dry	1	4/1/2013 10:36
Pentachlorophenol	U		19	420	µg/Kg-dry	1	4/1/2013 10:36
Phenanthrene	U		38	38	µg/Kg-dry	1	4/1/2013 10:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (10-12')
Collection Date: 3/22/2013 08:35 AM

Work Order: 1303834
Lab ID: 1303834-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	210	µg/Kg-dry	1	4/1/2013 10:36
Pyrene	U		16	38	µg/Kg-dry	1	4/1/2013 10:36
Surr: 2,4,6-Tribromophenol	*69.0*			*34-140*	*%REC*	1	4/1/2013 10:36
Surr: 2-Fluorobiphenyl	*78.0*			*12-100*	*%REC*	1	4/1/2013 10:36
Surr: 2-Fluorophenol	*84.9*			*33-117*	*%REC*	1	4/1/2013 10:36
Surr: 4-Terphenyl-d14	*104*			*25-137*	*%REC*	1	4/1/2013 10:36
Surr: Nitrobenzene-d5	*83.0*			*37-107*	*%REC*	1	4/1/2013 10:36
Surr: Phenol-d6	*86.8*			*40-106*	*%REC*	1	4/1/2013 10:36
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/28/2013 04:43
Surr: Toluene-d8	*88.4*			*70-130*	*%REC*	1	3/28/2013 04:43
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,1,2,2-Tetrachloroethane	U		0.15	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,1,2-Trichloroethane	U		0.20	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,1,2-Trichlorotrifluoroethane	U		0.30	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,1-Dichloroethane	U		0.27	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,1-Dichloroethene	U		0.24	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,2,4-Trichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,2-Dibromo-3-chloropropane	U		0.21	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,2-Dibromoethane	U		0.22	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,2-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,2-Dichloroethane	U		0.29	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,2-Dichloropropane	U		0.28	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,3-Dichlorobenzene	U		0.20	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
1,4-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
2-Butanone	U		0.82	11	µg/Kg-dry	0.821	3/28/2013 16:05
2-Hexanone	U		0.32	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
4-Methyl-2-pentanone	U		0.21	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Acetone	**3.3**	J	**1.0**	**11**	**µg/Kg-dry**	0.821	3/28/2013 16:05
Benzene	U		0.26	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Bromodichloromethane	U		0.22	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Bromoform	U		0.16	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Bromomethane	U		0.37	11	µg/Kg-dry	0.821	3/28/2013 16:05
Carbon disulfide	**0.51**	J	**0.39**	**5.3**	**µg/Kg-dry**	0.821	3/28/2013 16:05
Carbon tetrachloride	U		0.22	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Chlorobenzene	U		0.24	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Chloroethane	U		0.60	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Chloroform	**0.52**	J	**0.28**	**5.3**	**µg/Kg-dry**	0.821	3/28/2013 16:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-1 (10-12')
Collection Date: 3/22/2013 08:35 AM

Work Order: 1303834
Lab ID: 1303834-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.33	11	µg/Kg-dry	0.821	3/28/2013 16:05
cis-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
cis-1,3-Dichloropropene	U		0.19	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Cyclohexane	U		0.34	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Dibromochloromethane	U		0.18	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Dichlorodifluoromethane	U		0.35	11	µg/Kg-dry	0.821	3/28/2013 16:05
Ethylbenzene	U		0.21	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Isopropylbenzene	U		0.21	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
m,p-Xylene	U		0.40	2.7	µg/Kg-dry	0.821	3/28/2013 16:05
Methyl acetate	U		0.86	11	µg/Kg-dry	0.821	3/28/2013 16:05
Methyl tert-butyl ether	U		0.27	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Methylcyclohexane	U		0.30	11	µg/Kg-dry	0.821	3/28/2013 16:05
Methylene chloride	**0.80**	J	**0.30**	**5.3**	**µg/Kg-dry**	0.821	3/28/2013 16:05
o-Xylene	U		0.21	2.7	µg/Kg-dry	0.821	3/28/2013 16:05
Styrene	U		0.19	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Tetrachloroethene	U		0.32	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Toluene	U		0.25	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
trans-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.821	3/28/2013 16:05
Trichloroethene	U		0.25	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Trichlorofluoromethane	U		1.2	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Vinyl chloride	U		0.32	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Xylenes, Total	U		0.61	5.3	µg/Kg-dry	0.821	3/28/2013 16:05
Surr: 1,2-Dichloroethane-d4	*104*			*70-120*	*%REC*	0.821	3/28/2013 16:05
Surr: 4-Bromofluorobenzene	*113*			*75-120*	*%REC*	0.821	3/28/2013 16:05
Surr: Dibromofluoromethane	*19.0*	S		*85-115*	*%REC*	0.821	3/28/2013 16:05
Surr: Toluene-d8	*99.4*			*85-120*	*%REC*	0.821	3/28/2013 16:05

MOISTURE Method: **A2540 G** Analyst: **DC**

Moisture	**23**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (5-7')
Collection Date: 3/22/2013 09:35 AM

Work Order: 1303834
Lab ID: 1303834-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/27/13		Analyst: **LR**
Mercury	**0.049**		**0.00090**	**0.018**	**mg/Kg-dry**	1	3/28/2013 17:11
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/27/13		Analyst: **RH**
Arsenic	**7.8**		**0.066**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:21
Barium	**250**		**0.14**	**4.8**	**mg/Kg-dry**	10	4/1/2013 19:05
Cadmium	**0.29**		**0.0019**	**0.19**	**mg/Kg-dry**	1	3/29/2013 17:21
Chromium	**16**		**0.079**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:21
Lead	**16**		**0.0019**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:21
Selenium	**0.97**		**0.062**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:21
Silver	**0.030**	J	**0.0019**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:21
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.6	mg/Kg-dry	1	4/1/2013 11:06
ORO (C21-C35)	**18**		**1.7**	**3.6**	**mg/Kg-dry**	1	4/1/2013 11:06
Surr: 4-Terphenyl-d14	*94.5*			*25-137*	*%REC*	1	4/1/2013 11:06
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.1	400	µg/Kg-dry	1	4/1/2013 11:06
2,4,5-Trichlorophenol	U		9.8	200	µg/Kg-dry	1	4/1/2013 11:06
2,4,6-Trichlorophenol	U		9.8	200	µg/Kg-dry	1	4/1/2013 11:06
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	4/1/2013 11:06
2,4-Dimethylphenol	U		50	400	µg/Kg-dry	1	4/1/2013 11:06
2,4-Dinitrophenol	U		52	810	µg/Kg-dry	1	4/1/2013 11:06
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
2,6-Dinitrotoluene	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
2-Chloronaphthalene	U		11	98	µg/Kg-dry	1	4/1/2013 11:06
2-Chlorophenol	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
2-Methylnaphthalene	U		12	98	µg/Kg-dry	1	4/1/2013 11:06
2-Methylphenol	U		12	200	µg/Kg-dry	1	4/1/2013 11:06
2-Nitroaniline	U		9.3	810	µg/Kg-dry	1	4/1/2013 11:06
2-Nitrophenol	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
3,3´-Dichlorobenzidine	U		11	810	µg/Kg-dry	1	4/1/2013 11:06
3-Nitroaniline	U		100	810	µg/Kg-dry	1	4/1/2013 11:06
4,6-Dinitro-2-methylphenol	U		59	400	µg/Kg-dry	1	4/1/2013 11:06
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
4-Chloroaniline	U		16	810	µg/Kg-dry	1	4/1/2013 11:06
4-Chlorophenyl phenyl ether	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
4-Methylphenol	U		12	200	µg/Kg-dry	1	4/1/2013 11:06
4-Nitroaniline	U		18	810	µg/Kg-dry	1	4/1/2013 11:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (5-7')
Collection Date: 3/22/2013 09:35 AM

Work Order: 1303834
Lab ID: 1303834-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		50	810	µg/Kg-dry	1	4/1/2013 11:06
Acenaphthene	U		11	37	µg/Kg-dry	1	4/1/2013 11:06
Acenaphthylene	U		12	37	µg/Kg-dry	1	4/1/2013 11:06
Acetophenone	U		6.1	400	µg/Kg-dry	1	4/1/2013 11:06
Anthracene	U		12	37	µg/Kg-dry	1	4/1/2013 11:06
Atrazine	U		12	400	µg/Kg-dry	1	4/1/2013 11:06
Benzaldehyde	U		16	400	µg/Kg-dry	1	4/1/2013 11:06
Benzo(a)anthracene	U		15	37	µg/Kg-dry	1	4/1/2013 11:06
Benzo(a)pyrene	U		19	37	µg/Kg-dry	1	4/1/2013 11:06
Benzo(b)fluoranthene	U		20	37	µg/Kg-dry	1	4/1/2013 11:06
Benzo(g,h,i)perylene	U		29	37	µg/Kg-dry	1	4/1/2013 11:06
Benzo(k)fluoranthene	U		17	37	µg/Kg-dry	1	4/1/2013 11:06
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	4/1/2013 11:06
Bis(2-chloroethyl)ether	U		10	200	µg/Kg-dry	1	4/1/2013 11:06
Bis(2-chloroisopropyl)ether	U		9.5	200	µg/Kg-dry	1	4/1/2013 11:06
Bis(2-ethylhexyl)phthalate	U		12	400	µg/Kg-dry	1	4/1/2013 11:06
Butyl benzyl phthalate	U		17	200	µg/Kg-dry	1	4/1/2013 11:06
Caprolactam	U		18	400	µg/Kg-dry	1	4/1/2013 11:06
Carbazole	U		14	200	µg/Kg-dry	1	4/1/2013 11:06
Chrysene	U		14	37	µg/Kg-dry	1	4/1/2013 11:06
Dibenzo(a,h)anthracene	U		21	37	µg/Kg-dry	1	4/1/2013 11:06
Dibenzofuran	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
Diethyl phthalate	U		10	400	µg/Kg-dry	1	4/1/2013 11:06
Dimethyl phthalate	U		10	400	µg/Kg-dry	1	4/1/2013 11:06
Di-n-butyl phthalate	U		12	400	µg/Kg-dry	1	4/1/2013 11:06
Di-n-octyl phthalate	U		15	200	µg/Kg-dry	1	4/1/2013 11:06
Fluoranthene	U		15	37	µg/Kg-dry	1	4/1/2013 11:06
Fluorene	U		11	37	µg/Kg-dry	1	4/1/2013 11:06
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
Hexachlorobutadiene	U		10	200	µg/Kg-dry	1	4/1/2013 11:06
Hexachlorocyclopentadiene	U		43	400	µg/Kg-dry	1	4/1/2013 11:06
Hexachloroethane	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
Indeno(1,2,3-cd)pyrene	U		23	37	µg/Kg-dry	1	4/1/2013 11:06
Isophorone	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
Naphthalene	U		10	37	µg/Kg-dry	1	4/1/2013 11:06
Nitrobenzene	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	4/1/2013 11:06
N-Nitrosodiphenylamine	U		73	200	µg/Kg-dry	1	4/1/2013 11:06
Pentachlorophenol	U		18	400	µg/Kg-dry	1	4/1/2013 11:06
Phenanthrene	U		37	37	µg/Kg-dry	1	4/1/2013 11:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (5-7')
Collection Date: 3/22/2013 09:35 AM

Work Order: 1303834
Lab ID: 1303834-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	200	µg/Kg-dry	1	4/1/2013 11:06
Pyrene	U		15	37	µg/Kg-dry	1	4/1/2013 11:06
Surr: 2,4,6-Tribromophenol	*66.5*			*34-140*	*%REC*	1	4/1/2013 11:06
Surr: 2-Fluorobiphenyl	*70.3*			*12-100*	*%REC*	1	4/1/2013 11:06
Surr: 2-Fluorophenol	*76.9*			*33-117*	*%REC*	1	4/1/2013 11:06
Surr: 4-Terphenyl-d14	*94.5*			*25-137*	*%REC*	1	4/1/2013 11:06
Surr: Nitrobenzene-d5	*73.9*			*37-107*	*%REC*	1	4/1/2013 11:06
Surr: Phenol-d6	*78.6*			*40-106*	*%REC*	1	4/1/2013 11:06
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/28/2013 05:06
Surr: Toluene-d8	*88.4*			*70-130*	*%REC*	1	3/28/2013 05:06
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.27	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,1,2,2-Tetrachloroethane	U		0.17	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,1,2-Trichloroethane	U		0.23	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,1,2-Trichlorotrifluoroethane	U		0.34	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,1-Dichloroethane	U		0.31	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,1-Dichloroethene	U		0.27	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,2,4-Trichlorobenzene	U		0.25	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,2-Dibromo-3-chloropropane	U		0.24	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,2-Dibromoethane	U		0.25	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,2-Dichlorobenzene	U		0.25	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,2-Dichloroethane	U		0.34	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,2-Dichloropropane	U		0.32	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,3-Dichlorobenzene	U		0.23	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
1,4-Dichlorobenzene	U		0.26	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
2-Butanone	**1.4**	J	**0.94**	**12**	**µg/Kg-dry**	0.973	3/28/2013 16:33
2-Hexanone	U		0.37	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
4-Methyl-2-pentanone	U		0.24	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Acetone	**20**		**1.1**	**12**	**µg/Kg-dry**	0.973	3/28/2013 16:33
Benzene	U		0.30	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Bromodichloromethane	U		0.25	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Bromoform	U		0.19	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Bromomethane	U		0.43	12	µg/Kg-dry	0.973	3/28/2013 16:33
Carbon disulfide	**0.50**	J	**0.45**	**6.1**	**µg/Kg-dry**	0.973	3/28/2013 16:33
Carbon tetrachloride	U		0.25	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Chlorobenzene	U		0.27	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Chloroethane	U		0.68	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Chloroform	**0.56**	J	**0.32**	**6.1**	**µg/Kg-dry**	0.973	3/28/2013 16:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (5-7')
Collection Date: 3/22/2013 09:35 AM

Work Order: 1303834
Lab ID: 1303834-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.37	12	µg/Kg-dry	0.973	3/28/2013 16:33
cis-1,2-Dichloroethene	U		0.36	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
cis-1,3-Dichloropropene	U		0.22	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Cyclohexane	U		0.39	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Dibromochloromethane	U		0.21	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Dichlorodifluoromethane	U		0.40	12	µg/Kg-dry	0.973	3/28/2013 16:33
Ethylbenzene	U		0.23	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Isopropylbenzene	U		0.23	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
m,p-Xylene	U		0.46	3.0	µg/Kg-dry	0.973	3/28/2013 16:33
Methyl acetate	U		0.98	12	µg/Kg-dry	0.973	3/28/2013 16:33
Methyl tert-butyl ether	U		0.31	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Methylcyclohexane	U		0.34	12	µg/Kg-dry	0.973	3/28/2013 16:33
Methylene chloride	**0.91**	J	**0.35**	**6.1**	**µg/Kg-dry**	0.973	3/28/2013 16:33
o-Xylene	U		0.24	3.0	µg/Kg-dry	0.973	3/28/2013 16:33
Styrene	U		0.22	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Tetrachloroethene	U		0.36	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Toluene	U		0.29	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
trans-1,2-Dichloroethene	U		0.36	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
trans-1,3-Dichloropropene	U		0.23	12	µg/Kg-dry	0.973	3/28/2013 16:33
Trichloroethene	U		0.28	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Trichlorofluoromethane	U		1.4	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Vinyl chloride	U		0.37	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Xylenes, Total	U		0.70	6.1	µg/Kg-dry	0.973	3/28/2013 16:33
Surr: 1,2-Dichloroethane-d4	*93.0*			*70-120*	*%REC*	0.973	3/28/2013 16:33
Surr: 4-Bromofluorobenzene	*105*			*75-120*	*%REC*	0.973	3/28/2013 16:33
Surr: Dibromofluoromethane	*8.45*	S		*85-115*	*%REC*	0.973	3/28/2013 16:33
Surr: Toluene-d8	*105*			*85-120*	*%REC*	0.973	3/28/2013 16:33

MOISTURE Method: **A2540 G** Analyst: **DC**

Moisture	**20**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (7-9')
Collection Date: 3/22/2013 09:45 AM

Work Order: 1303834
Lab ID: 1303834-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/27/13		Analyst: **LR**
Mercury	**0.051**		**0.00094**	**0.019**	**mg/Kg-dry**	1	3/28/2013 17:14
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/27/13		Analyst: **RH**
Arsenic	**8.2**		**0.065**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:27
Barium	**260**		**0.13**	**4.7**	**mg/Kg-dry**	10	4/1/2013 19:11
Cadmium	**0.28**		**0.0019**	**0.19**	**mg/Kg-dry**	1	3/29/2013 17:27
Chromium	**16**		**0.078**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:27
Lead	**15**		**0.0019**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:27
Selenium	**1.1**		**0.061**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:27
Silver	**0.028**	J	**0.0019**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:27
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		1.6	3.8	mg/Kg-dry	1	4/1/2013 11:36
ORO (C21-C35)	**21**		**1.8**	**3.8**	**mg/Kg-dry**	1	4/1/2013 11:36
Surr: 4-Terphenyl-d14	*104*			*25-137*	*%REC*	1	4/1/2013 11:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.4	420	µg/Kg-dry	1	4/1/2013 11:36
2,4,5-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 11:36
2,4,6-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 11:36
2,4-Dichlorophenol	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	4/1/2013 11:36
2,4-Dinitrophenol	U		55	850	µg/Kg-dry	1	4/1/2013 11:36
2,4-Dinitrotoluene	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
2,6-Dinitrotoluene	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	4/1/2013 11:36
2-Chlorophenol	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
2-Methylnaphthalene	U		13	100	µg/Kg-dry	1	4/1/2013 11:36
2-Methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
2-Nitroaniline	U		9.8	850	µg/Kg-dry	1	4/1/2013 11:36
2-Nitrophenol	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
3,3´-Dichlorobenzidine	U		12	850	µg/Kg-dry	1	4/1/2013 11:36
3-Nitroaniline	U		100	850	µg/Kg-dry	1	4/1/2013 11:36
4,6-Dinitro-2-methylphenol	U		62	420	µg/Kg-dry	1	4/1/2013 11:36
4-Bromophenyl phenyl ether	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
4-Chloro-3-methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
4-Chloroaniline	U		16	850	µg/Kg-dry	1	4/1/2013 11:36
4-Chlorophenyl phenyl ether	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
4-Methylphenol	U		13	210	µg/Kg-dry	1	4/1/2013 11:36
4-Nitroaniline	U		19	850	µg/Kg-dry	1	4/1/2013 11:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (7-9')
Collection Date: 3/22/2013 09:45 AM

Work Order: 1303834
Lab ID: 1303834-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		52	850	µg/Kg-dry	1	4/1/2013 11:36
Acenaphthene	U		12	39	µg/Kg-dry	1	4/1/2013 11:36
Acenaphthylene	U		12	39	µg/Kg-dry	1	4/1/2013 11:36
Acetophenone	U		6.4	420	µg/Kg-dry	1	4/1/2013 11:36
Anthracene	U		13	39	µg/Kg-dry	1	4/1/2013 11:36
Atrazine	U		13	420	µg/Kg-dry	1	4/1/2013 11:36
Benzaldehyde	U		16	420	µg/Kg-dry	1	4/1/2013 11:36
Benzo(a)anthracene	U		16	39	µg/Kg-dry	1	4/1/2013 11:36
Benzo(a)pyrene	U		20	39	µg/Kg-dry	1	4/1/2013 11:36
Benzo(b)fluoranthene	U		21	39	µg/Kg-dry	1	4/1/2013 11:36
Benzo(g,h,i)perylene	U		30	39	µg/Kg-dry	1	4/1/2013 11:36
Benzo(k)fluoranthene	U		17	39	µg/Kg-dry	1	4/1/2013 11:36
Bis(2-chloroethoxy)methane	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
Bis(2-chloroethyl)ether	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
Bis(2-chloroisopropyl)ether	U		10	210	µg/Kg-dry	1	4/1/2013 11:36
Bis(2-ethylhexyl)phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 11:36
Butyl benzyl phthalate	U		18	210	µg/Kg-dry	1	4/1/2013 11:36
Caprolactam	U		19	420	µg/Kg-dry	1	4/1/2013 11:36
Carbazole	U		15	210	µg/Kg-dry	1	4/1/2013 11:36
Chrysene	U		15	39	µg/Kg-dry	1	4/1/2013 11:36
Dibenzo(a,h)anthracene	U		22	39	µg/Kg-dry	1	4/1/2013 11:36
Dibenzofuran	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
Diethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 11:36
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 11:36
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 11:36
Di-n-octyl phthalate	U		16	210	µg/Kg-dry	1	4/1/2013 11:36
Fluoranthene	**23**	J	**15**	**39**	**µg/Kg-dry**	1	4/1/2013 11:36
Fluorene	U		11	39	µg/Kg-dry	1	4/1/2013 11:36
Hexachlorobenzene	U		12	210	µg/Kg-dry	1	4/1/2013 11:36
Hexachlorobutadiene	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
Hexachlorocyclopentadiene	U		45	420	µg/Kg-dry	1	4/1/2013 11:36
Hexachloroethane	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
Indeno(1,2,3-cd)pyrene	U		24	39	µg/Kg-dry	1	4/1/2013 11:36
Isophorone	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
Naphthalene	U		11	39	µg/Kg-dry	1	4/1/2013 11:36
Nitrobenzene	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
N-Nitrosodi-n-propylamine	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
N-Nitrosodiphenylamine	U		76	210	µg/Kg-dry	1	4/1/2013 11:36
Pentachlorophenol	U		19	420	µg/Kg-dry	1	4/1/2013 11:36
Phenanthrene	U		39	39	µg/Kg-dry	1	4/1/2013 11:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (7-9')
Collection Date: 3/22/2013 09:45 AM

Work Order: 1303834
Lab ID: 1303834-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	210	µg/Kg-dry	1	4/1/2013 11:36
Pyrene	U		16	39	µg/Kg-dry	1	4/1/2013 11:36
Surr: 2,4,6-Tribromophenol	*85.0*			*34-140*	*%REC*	1	4/1/2013 11:36
Surr: 2-Fluorobiphenyl	*78.4*			*12-100*	*%REC*	1	4/1/2013 11:36
Surr: 2-Fluorophenol	*90.6*			*33-117*	*%REC*	1	4/1/2013 11:36
Surr: 4-Terphenyl-d14	*104*			*25-137*	*%REC*	1	4/1/2013 11:36
Surr: Nitrobenzene-d5	*83.5*			*37-107*	*%REC*	1	4/1/2013 11:36
Surr: Phenol-d6	*90.0*			*40-106*	*%REC*	1	4/1/2013 11:36
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/28/2013 05:29
Surr: Toluene-d8	*86.8*			*70-130*	*%REC*	1	3/28/2013 05:29
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.28	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,1,2,2-Tetrachloroethane	U		0.18	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,1,2-Trichloroethane	U		0.24	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,1,2-Trichlorotrifluoroethane	U		0.35	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,1-Dichloroethane	U		0.32	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,1-Dichloroethene	U		0.29	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,2,4-Trichlorobenzene	U		0.26	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,2-Dibromo-3-chloropropane	U		0.25	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,2-Dibromoethane	U		0.26	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,2-Dichlorobenzene	U		0.26	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,2-Dichloroethane	U		0.35	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,2-Dichloropropane	U		0.33	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,3-Dichlorobenzene	U		0.24	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
1,4-Dichlorobenzene	U		0.27	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
2-Butanone	**2.7**	J	**0.97**	**13**	**µg/Kg-dry**	0.973	3/28/2013 17:01
2-Hexanone	U		0.38	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
4-Methyl-2-pentanone	U		0.25	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Acetone	**26**		**1.2**	**13**	**µg/Kg-dry**	0.973	3/28/2013 17:01
Benzene	U		0.31	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Bromodichloromethane	U		0.26	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Bromoform	U		0.20	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Bromomethane	U		0.45	13	µg/Kg-dry	0.973	3/28/2013 17:01
Carbon disulfide	**0.47**	J	**0.47**	**6.3**	**µg/Kg-dry**	0.973	3/28/2013 17:01
Carbon tetrachloride	U		0.26	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Chlorobenzene	U		0.28	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Chloroethane	U		0.71	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Chloroform	**0.70**	J	**0.33**	**6.3**	**µg/Kg-dry**	0.973	3/28/2013 17:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-2 (7-9')
Collection Date: 3/22/2013 09:45 AM

Work Order: 1303834
Lab ID: 1303834-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.39	13	µg/Kg-dry	0.973	3/28/2013 17:01
cis-1,2-Dichloroethene	U		0.38	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
cis-1,3-Dichloropropene	U		0.23	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Cyclohexane	U		0.40	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Dibromochloromethane	U		0.21	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Dichlorodifluoromethane	U		0.42	13	µg/Kg-dry	0.973	3/28/2013 17:01
Ethylbenzene	U		0.24	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Isopropylbenzene	U		0.24	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
m,p-Xylene	U		0.48	3.2	µg/Kg-dry	0.973	3/28/2013 17:01
Methyl acetate	U		1.0	13	µg/Kg-dry	0.973	3/28/2013 17:01
Methyl tert-butyl ether	U		0.32	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Methylcyclohexane	U		0.35	13	µg/Kg-dry	0.973	3/28/2013 17:01
Methylene chloride	**0.94**	J	**0.36**	**6.3**	**µg/Kg-dry**	0.973	3/28/2013 17:01
o-Xylene	U		0.25	3.2	µg/Kg-dry	0.973	3/28/2013 17:01
Styrene	U		0.23	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Tetrachloroethene	U		0.38	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Toluene	U		0.30	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
trans-1,2-Dichloroethene	U		0.37	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
trans-1,3-Dichloropropene	U		0.24	13	µg/Kg-dry	0.973	3/28/2013 17:01
Trichloroethene	U		0.30	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Trichlorofluoromethane	U		1.5	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Vinyl chloride	U		0.39	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Xylenes, Total	U		0.73	6.3	µg/Kg-dry	0.973	3/28/2013 17:01
Surr: 1,2-Dichloroethane-d4	*119*			*70-120*	*%REC*	0.973	3/28/2013 17:01
Surr: 4-Bromofluorobenzene	*109*			*75-120*	*%REC*	0.973	3/28/2013 17:01
Surr: Dibromofluoromethane	*7.75*	S		*85-115*	*%REC*	0.973	3/28/2013 17:01
Surr: Toluene-d8	*102*			*85-120*	*%REC*	0.973	3/28/2013 17:01
MOISTURE		Method:	**A2540 G**				Analyst: **DC**
Moisture	**23**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-3 (7-9')
Collection Date: 3/22/2013 10:15 AM

Work Order: 1303834
Lab ID: 1303834-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PARTICLE-SIZE ANALYSIS OF SOILS			**D422**			Analyst: **KK**
3 Inch Sieve	**100**			**% Passing**	1	4/15/2013
1.5 Inch Sieve	**100**			**% Passing**	1	4/15/2013
0.75 Inch Sieve	**100**			**% Passing**	1	4/15/2013
0.375 Inch Sieve	**100**			**% Passing**	1	4/15/2013
No. 4 Sieve (4.75 mm)	**100**			**% Passing**	1	4/15/2013
No. 10 Sieve (2.00 mm)	**100**			**% Passing**	1	4/15/2013
No. 16 Sieve (1.18 mm)	**99.8**			**% Passing**	1	4/15/2013
No. 30 Sieve (0.60 mm)	**99.8**			**% Passing**	1	4/15/2013
No. 50 Sieve (0.30 mm)	**99.8**			**% Passing**	1	4/15/2013
No. 60 Sieve (0.25 mm)	**99.8**			**% Passing**	1	4/15/2013
No. 100 Sieve (0.15 mm)	**99.7**			**% Passing**	1	4/15/2013
No. 200 Sieve (0.075 mm)	**99.2**			**% Passing**	1	4/15/2013
0.030 mm (Hydrometer)	**82.0**			**% Passing**	1	4/15/2013
0.005 mm (Hydrometer)	**47.5**			**% Passing**	1	4/15/2013
0.0015 mm (Hydrometer)	**37.5**			**% Passing**	1	4/15/2013
% Gravel	U			**% Passing**	1	4/15/2013
% Sand	**0.836**			**% Passing**	1	4/15/2013
% Silt, Clay, Colloids	**99.2**			**% Passing**	1	4/15/2013

Note: See Qualifiers page for a list of qualifiers and their definitions.

Date Tested:	4/10/13
Analyst:	KK
Work Order:	1303834-05A

Sand	0.84%
Silt Size	52.00%
Clay Size	47.16%

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (6-8')
Collection Date: 3/22/2013 10:50 AM

Work Order: 1303834
Lab ID: 1303834-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/29/13		Analyst: **LR**
Mercury	**0.034**		**0.00086**	**0.017**	**mg/Kg-dry**	1	3/29/2013 13:37
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/27/13		Analyst: **RH**
Arsenic	**5.8**		**0.064**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:33
Barium	**150**		**0.013**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:33
Cadmium	**0.23**		**0.0019**	**0.19**	**mg/Kg-dry**	1	3/29/2013 17:33
Chromium	**13**		**0.077**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:33
Lead	**14**		**0.0019**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:33
Selenium	**1.2**		**0.060**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:33
Silver	**0.030**	J	**0.0019**	**0.47**	**mg/Kg-dry**	1	3/29/2013 17:33
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.6	mg/Kg-dry	1	4/1/2013 12:06
ORO (C21-C35)	**18**		**1.7**	**3.6**	**mg/Kg-dry**	1	4/1/2013 12:06
Surr: 4-Terphenyl-d14	*102*			*25-137*	*%REC*	1	4/1/2013 12:06
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.1	410	µg/Kg-dry	1	4/1/2013 12:06
2,4,5-Trichlorophenol	U		9.8	200	µg/Kg-dry	1	4/1/2013 12:06
2,4,6-Trichlorophenol	U		9.8	200	µg/Kg-dry	1	4/1/2013 12:06
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	4/1/2013 12:06
2,4-Dimethylphenol	U		50	410	µg/Kg-dry	1	4/1/2013 12:06
2,4-Dinitrophenol	U		52	810	µg/Kg-dry	1	4/1/2013 12:06
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	4/1/2013 12:06
2-Chloronaphthalene	U		11	99	µg/Kg-dry	1	4/1/2013 12:06
2-Chlorophenol	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
2-Methylnaphthalene	**83**	J	**12**	**99**	**µg/Kg-dry**	1	4/1/2013 12:06
2-Methylphenol	U		12	200	µg/Kg-dry	1	4/1/2013 12:06
2-Nitroaniline	U		9.4	810	µg/Kg-dry	1	4/1/2013 12:06
2-Nitrophenol	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
3,3´-Dichlorobenzidine	U		11	810	µg/Kg-dry	1	4/1/2013 12:06
3-Nitroaniline	U		100	810	µg/Kg-dry	1	4/1/2013 12:06
4,6-Dinitro-2-methylphenol	U		59	410	µg/Kg-dry	1	4/1/2013 12:06
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
4-Chloroaniline	U		16	810	µg/Kg-dry	1	4/1/2013 12:06
4-Chlorophenyl phenyl ether	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
4-Methylphenol	U		12	200	µg/Kg-dry	1	4/1/2013 12:06
4-Nitroaniline	U		18	810	µg/Kg-dry	1	4/1/2013 12:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (6-8')
Collection Date: 3/22/2013 10:50 AM

Work Order: 1303834
Lab ID: 1303834-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		50	810	µg/Kg-dry	1	4/1/2013 12:06
Acenaphthene	U		11	37	µg/Kg-dry	1	4/1/2013 12:06
Acenaphthylene	U		12	37	µg/Kg-dry	1	4/1/2013 12:06
Acetophenone	U		6.1	410	µg/Kg-dry	1	4/1/2013 12:06
Anthracene	U		13	37	µg/Kg-dry	1	4/1/2013 12:06
Atrazine	U		12	410	µg/Kg-dry	1	4/1/2013 12:06
Benzaldehyde	U		16	410	µg/Kg-dry	1	4/1/2013 12:06
Benzo(a)anthracene	U		15	37	µg/Kg-dry	1	4/1/2013 12:06
Benzo(a)pyrene	U		19	37	µg/Kg-dry	1	4/1/2013 12:06
Benzo(b)fluoranthene	U		20	37	µg/Kg-dry	1	4/1/2013 12:06
Benzo(g,h,i)perylene	U		29	37	µg/Kg-dry	1	4/1/2013 12:06
Benzo(k)fluoranthene	U		17	37	µg/Kg-dry	1	4/1/2013 12:06
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	4/1/2013 12:06
Bis(2-chloroethyl)ether	U		10	200	µg/Kg-dry	1	4/1/2013 12:06
Bis(2-chloroisopropyl)ether	U		9.6	200	µg/Kg-dry	1	4/1/2013 12:06
Bis(2-ethylhexyl)phthalate	U		12	410	µg/Kg-dry	1	4/1/2013 12:06
Butyl benzyl phthalate	U		17	200	µg/Kg-dry	1	4/1/2013 12:06
Caprolactam	U		18	410	µg/Kg-dry	1	4/1/2013 12:06
Carbazole	U		14	200	µg/Kg-dry	1	4/1/2013 12:06
Chrysene	U		14	37	µg/Kg-dry	1	4/1/2013 12:06
Dibenzo(a,h)anthracene	U		21	37	µg/Kg-dry	1	4/1/2013 12:06
Dibenzofuran	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
Diethyl phthalate	U		10	410	µg/Kg-dry	1	4/1/2013 12:06
Dimethyl phthalate	U		10	410	µg/Kg-dry	1	4/1/2013 12:06
Di-n-butyl phthalate	U		12	410	µg/Kg-dry	1	4/1/2013 12:06
Di-n-octyl phthalate	U		15	200	µg/Kg-dry	1	4/1/2013 12:06
Fluoranthene	U		15	37	µg/Kg-dry	1	4/1/2013 12:06
Fluorene	U		11	37	µg/Kg-dry	1	4/1/2013 12:06
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
Hexachlorobutadiene	U		10	200	µg/Kg-dry	1	4/1/2013 12:06
Hexachlorocyclopentadiene	U		43	410	µg/Kg-dry	1	4/1/2013 12:06
Hexachloroethane	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
Indeno(1,2,3-cd)pyrene	U		23	37	µg/Kg-dry	1	4/1/2013 12:06
Isophorone	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
Naphthalene	**47**		**11**	**37**	**µg/Kg-dry**	1	4/1/2013 12:06
Nitrobenzene	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	4/1/2013 12:06
N-Nitrosodiphenylamine	U		73	200	µg/Kg-dry	1	4/1/2013 12:06
Pentachlorophenol	U		18	410	µg/Kg-dry	1	4/1/2013 12:06
Phenanthrene	U		37	37	µg/Kg-dry	1	4/1/2013 12:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (6-8')
Collection Date: 3/22/2013 10:50 AM

Work Order: 1303834
Lab ID: 1303834-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	200	µg/Kg-dry	1	4/1/2013 12:06
Pyrene	U		15	37	µg/Kg-dry	1	4/1/2013 12:06
Surr: 2,4,6-Tribromophenol	*78.5*			*34-140*	*%REC*	1	4/1/2013 12:06
Surr: 2-Fluorobiphenyl	*78.6*			*12-100*	*%REC*	1	4/1/2013 12:06
Surr: 2-Fluorophenol	*89.2*			*33-117*	*%REC*	1	4/1/2013 12:06
Surr: 4-Terphenyl-d14	*102*			*25-137*	*%REC*	1	4/1/2013 12:06
Surr: Nitrobenzene-d5	*82.5*			*37-107*	*%REC*	1	4/1/2013 12:06
Surr: Phenol-d6	*89.1*			*40-106*	*%REC*	1	4/1/2013 12:06
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,500		µg/Kg-dry	1	3/28/2013 05:52
Surr: Toluene-d8	*86.6*			*70-130*	*%REC*	1	3/28/2013 05:52
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.20	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,1,2,2-Tetrachloroethane	U		0.13	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,1,2-Trichloroethane	U		0.17	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,1,2-Trichlorotrifluoroethane	U		0.25	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,1-Dichloroethane	U		0.23	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,1-Dichloroethene	U		0.20	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,2,4-Trichlorobenzene	U		0.19	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,2-Dibromo-3-chloropropane	U		0.18	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,2-Dibromoethane	U		0.18	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,2-Dichlorobenzene	U		0.18	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,2-Dichloroethane	U		0.25	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,2-Dichloropropane	U		0.23	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,3-Dichlorobenzene	U		0.17	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
1,4-Dichlorobenzene	U		0.19	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
2-Butanone	**5.3**	J	**0.69**	**9.0**	**µg/Kg-dry**	0.728	3/28/2013 17:28
2-Hexanone	U		0.27	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
4-Methyl-2-pentanone	U		0.18	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Acetone	**25**		**0.84**	**9.0**	**µg/Kg-dry**	0.728	3/28/2013 17:28
Benzene	U		0.22	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Bromodichloromethane	U		0.19	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Bromoform	U		0.14	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Bromomethane	U		0.32	9.0	µg/Kg-dry	0.728	3/28/2013 17:28
Carbon disulfide	**0.68**	J	**0.33**	**4.5**	**µg/Kg-dry**	0.728	3/28/2013 17:28
Carbon tetrachloride	U		0.18	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Chlorobenzene	U		0.20	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Chloroethane	U		0.50	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Chloroform	**0.45**	J	**0.24**	**4.5**	**µg/Kg-dry**	0.728	3/28/2013 17:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (6-8')
Collection Date: 3/22/2013 10:50 AM

Work Order: 1303834
Lab ID: 1303834-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.28	9.0	µg/Kg-dry	0.728	3/28/2013 17:28
cis-1,2-Dichloroethene	U		0.27	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
cis-1,3-Dichloropropene	U		0.16	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Cyclohexane	U		0.29	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Dibromochloromethane	U		0.15	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Dichlorodifluoromethane	U		0.30	9.0	µg/Kg-dry	0.728	3/28/2013 17:28
Ethylbenzene	U		0.17	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Isopropylbenzene	U		0.17	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
m,p-Xylene	U		0.34	2.2	µg/Kg-dry	0.728	3/28/2013 17:28
Methyl acetate	U		0.72	9.0	µg/Kg-dry	0.728	3/28/2013 17:28
Methyl tert-butyl ether	U		0.23	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Methylcyclohexane	U		0.25	9.0	µg/Kg-dry	0.728	3/28/2013 17:28
Methylene chloride	**0.62**	J	**0.26**	**4.5**	**µg/Kg-dry**	0.728	3/28/2013 17:28
o-Xylene	U		0.18	2.2	µg/Kg-dry	0.728	3/28/2013 17:28
Styrene	U		0.16	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Tetrachloroethene	U		0.27	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Toluene	U		0.21	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
trans-1,2-Dichloroethene	U		0.26	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
trans-1,3-Dichloropropene	U		0.17	9.0	µg/Kg-dry	0.728	3/28/2013 17:28
Trichloroethene	U		0.21	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Trichlorofluoromethane	U		1.0	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Vinyl chloride	U		0.27	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Xylenes, Total	U		0.52	4.5	µg/Kg-dry	0.728	3/28/2013 17:28
Surr: 1,2-Dichloroethane-d4	*113*			*70-120*	*%REC*	0.728	3/28/2013 17:28
Surr: 4-Bromofluorobenzene	*108*			*75-120*	*%REC*	0.728	3/28/2013 17:28
Surr: Dibromofluoromethane	*8.60*	S		*85-115*	*%REC*	0.728	3/28/2013 17:28
Surr: Toluene-d8	*99.6*			*85-120*	*%REC*	0.728	3/28/2013 17:28
MOISTURE			Method: **A2540 G**				Analyst: **DC**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (8-10')
Collection Date: 3/22/2013 11:00 AM

Work Order: 1303834
Lab ID: 1303834-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/29/13		Analyst: **LR**
Mercury	**0.033**		**0.00086**	**0.017**	**mg/Kg-dry**	1	3/29/2013 13:39
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/27/13		Analyst: **RH**
Arsenic	**4.9**		**0.066**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:39
Barium	**220**		**0.14**	**4.8**	**mg/Kg-dry**	10	4/1/2013 19:17
Cadmium	**0.26**		**0.0019**	**0.19**	**mg/Kg-dry**	1	3/29/2013 17:39
Chromium	**12**		**0.079**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:39
Lead	**13**		**0.0019**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:39
Selenium	**0.83**		**0.062**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:39
Silver	**0.022**	J	**0.0019**	**0.48**	**mg/Kg-dry**	1	3/29/2013 17:39
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.6	mg/Kg-dry	1	4/1/2013 12:36
ORO (C21-C35)	**19**		**1.7**	**3.6**	**mg/Kg-dry**	1	4/1/2013 12:36
Surr: 4-Terphenyl-d14	*103*			*25-137*	*%REC*	1	4/1/2013 12:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.0	400	µg/Kg-dry	1	4/1/2013 12:36
2,4,5-Trichlorophenol	U		9.7	190	µg/Kg-dry	1	4/1/2013 12:36
2,4,6-Trichlorophenol	U		9.7	190	µg/Kg-dry	1	4/1/2013 12:36
2,4-Dichlorophenol	U		12	190	µg/Kg-dry	1	4/1/2013 12:36
2,4-Dimethylphenol	U		50	400	µg/Kg-dry	1	4/1/2013 12:36
2,4-Dinitrophenol	U		52	800	µg/Kg-dry	1	4/1/2013 12:36
2,4-Dinitrotoluene	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
2,6-Dinitrotoluene	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
2-Chloronaphthalene	U		11	97	µg/Kg-dry	1	4/1/2013 12:36
2-Chlorophenol	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
2-Methylnaphthalene	U		12	97	µg/Kg-dry	1	4/1/2013 12:36
2-Methylphenol	U		12	190	µg/Kg-dry	1	4/1/2013 12:36
2-Nitroaniline	U		9.3	800	µg/Kg-dry	1	4/1/2013 12:36
2-Nitrophenol	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
3,3´-Dichlorobenzidine	U		11	800	µg/Kg-dry	1	4/1/2013 12:36
3-Nitroaniline	U		99	800	µg/Kg-dry	1	4/1/2013 12:36
4,6-Dinitro-2-methylphenol	U		59	400	µg/Kg-dry	1	4/1/2013 12:36
4-Bromophenyl phenyl ether	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
4-Chloro-3-methylphenol	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
4-Chloroaniline	U		16	800	µg/Kg-dry	1	4/1/2013 12:36
4-Chlorophenyl phenyl ether	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
4-Methylphenol	U		12	190	µg/Kg-dry	1	4/1/2013 12:36
4-Nitroaniline	U		18	800	µg/Kg-dry	1	4/1/2013 12:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (8-10')
Collection Date: 3/22/2013 11:00 AM

Work Order: 1303834
Lab ID: 1303834-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		49	800	µg/Kg-dry	1	4/1/2013 12:36
Acenaphthene	U		11	37	µg/Kg-dry	1	4/1/2013 12:36
Acenaphthylene	U		12	37	µg/Kg-dry	1	4/1/2013 12:36
Acetophenone	U		6.1	400	µg/Kg-dry	1	4/1/2013 12:36
Anthracene	U		12	37	µg/Kg-dry	1	4/1/2013 12:36
Atrazine	U		12	400	µg/Kg-dry	1	4/1/2013 12:36
Benzaldehyde	U		15	400	µg/Kg-dry	1	4/1/2013 12:36
Benzo(a)anthracene	U		15	37	µg/Kg-dry	1	4/1/2013 12:36
Benzo(a)pyrene	U		19	37	µg/Kg-dry	1	4/1/2013 12:36
Benzo(b)fluoranthene	U		20	37	µg/Kg-dry	1	4/1/2013 12:36
Benzo(g,h,i)perylene	U		29	37	µg/Kg-dry	1	4/1/2013 12:36
Benzo(k)fluoranthene	U		17	37	µg/Kg-dry	1	4/1/2013 12:36
Bis(2-chloroethoxy)methane	U		10	190	µg/Kg-dry	1	4/1/2013 12:36
Bis(2-chloroethyl)ether	U		10	190	µg/Kg-dry	1	4/1/2013 12:36
Bis(2-chloroisopropyl)ether	U		9.5	190	µg/Kg-dry	1	4/1/2013 12:36
Bis(2-ethylhexyl)phthalate	U		12	400	µg/Kg-dry	1	4/1/2013 12:36
Butyl benzyl phthalate	U		17	190	µg/Kg-dry	1	4/1/2013 12:36
Caprolactam	U		18	400	µg/Kg-dry	1	4/1/2013 12:36
Carbazole	U		14	190	µg/Kg-dry	1	4/1/2013 12:36
Chrysene	U		14	37	µg/Kg-dry	1	4/1/2013 12:36
Dibenzo(a,h)anthracene	U		21	37	µg/Kg-dry	1	4/1/2013 12:36
Dibenzofuran	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
Diethyl phthalate	U		10	400	µg/Kg-dry	1	4/1/2013 12:36
Dimethyl phthalate	U		10	400	µg/Kg-dry	1	4/1/2013 12:36
Di-n-butyl phthalate	U		12	400	µg/Kg-dry	1	4/1/2013 12:36
Di-n-octyl phthalate	U		15	190	µg/Kg-dry	1	4/1/2013 12:36
Fluoranthene	**21**	J	**14**	**37**	**µg/Kg-dry**	1	4/1/2013 12:36
Fluorene	U		11	37	µg/Kg-dry	1	4/1/2013 12:36
Hexachlorobenzene	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
Hexachlorobutadiene	U		10	190	µg/Kg-dry	1	4/1/2013 12:36
Hexachlorocyclopentadiene	U		43	400	µg/Kg-dry	1	4/1/2013 12:36
Hexachloroethane	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
Indeno(1,2,3-cd)pyrene	U		23	37	µg/Kg-dry	1	4/1/2013 12:36
Isophorone	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
Naphthalene	U		10	37	µg/Kg-dry	1	4/1/2013 12:36
Nitrobenzene	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
N-Nitrosodi-n-propylamine	U		11	190	µg/Kg-dry	1	4/1/2013 12:36
N-Nitrosodiphenylamine	U		72	190	µg/Kg-dry	1	4/1/2013 12:36
Pentachlorophenol	U		18	400	µg/Kg-dry	1	4/1/2013 12:36
Phenanthrene	U		37	37	µg/Kg-dry	1	4/1/2013 12:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (8-10')
Collection Date: 3/22/2013 11:00 AM

Work Order: 1303834
Lab ID: 1303834-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	190	µg/Kg-dry	1	4/1/2013 12:36
Pyrene	U		15	37	µg/Kg-dry	1	4/1/2013 12:36
Surr: 2,4,6-Tribromophenol	*84.9*			*34-140*	*%REC*	1	4/1/2013 12:36
Surr: 2-Fluorobiphenyl	*78.8*			*12-100*	*%REC*	1	4/1/2013 12:36
Surr: 2-Fluorophenol	*91.9*			*33-117*	*%REC*	1	4/1/2013 12:36
Surr: 4-Terphenyl-d14	*103*			*25-137*	*%REC*	1	4/1/2013 12:36
Surr: Nitrobenzene-d5	*83.5*			*37-107*	*%REC*	1	4/1/2013 12:36
Surr: Phenol-d6	*91.3*			*40-106*	*%REC*	1	4/1/2013 12:36
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,500		µg/Kg-dry	1	3/28/2013 06:15
Surr: Toluene-d8	*87.0*			*70-130*	*%REC*	1	3/28/2013 06:15
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.20	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,1,2,2-Tetrachloroethane	U		0.13	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,1,2-Trichloroethane	U		0.17	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,1,2-Trichlorotrifluoroethane	U		0.25	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,1-Dichloroethane	U		0.23	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,1-Dichloroethene	U		0.20	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,2,4-Trichlorobenzene	U		0.19	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,2-Dibromo-3-chloropropane	U		0.18	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,2-Dibromoethane	U		0.18	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,2-Dichlorobenzene	U		0.18	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,2-Dichloroethane	U		0.25	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,2-Dichloropropane	U		0.23	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,3-Dichlorobenzene	U		0.17	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
1,4-Dichlorobenzene	U		0.19	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
2-Butanone	U		0.69	9.0	µg/Kg-dry	0.729	3/28/2013 17:56
2-Hexanone	U		0.27	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
4-Methyl-2-pentanone	U		0.18	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Acetone	**4.6**	J	**0.84**	**9.0**	**µg/Kg-dry**	0.729	3/28/2013 17:56
Benzene	U		0.22	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Bromodichloromethane	U		0.18	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Bromoform	U		0.14	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Bromomethane	U		0.32	9.0	µg/Kg-dry	0.729	3/28/2013 17:56
Carbon disulfide	**0.34**	J	**0.33**	**4.5**	**µg/Kg-dry**	0.729	3/28/2013 17:56
Carbon tetrachloride	U		0.18	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Chlorobenzene	U		0.20	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Chloroethane	U		0.50	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Chloroform	**0.43**	J	**0.24**	**4.5**	**µg/Kg-dry**	0.729	3/28/2013 17:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-4 (8-10')
Collection Date: 3/22/2013 11:00 AM

Work Order: 1303834
Lab ID: 1303834-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.28	9.0	µg/Kg-dry	0.729	3/28/2013 17:56
cis-1,2-Dichloroethene	U		0.27	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
cis-1,3-Dichloropropene	U		0.16	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Cyclohexane	U		0.29	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Dibromochloromethane	U		0.15	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Dichlorodifluoromethane	U		0.30	9.0	µg/Kg-dry	0.729	3/28/2013 17:56
Ethylbenzene	U		0.17	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Isopropylbenzene	U		0.17	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
m,p-Xylene	U		0.34	2.2	µg/Kg-dry	0.729	3/28/2013 17:56
Methyl acetate	U		0.72	9.0	µg/Kg-dry	0.729	3/28/2013 17:56
Methyl tert-butyl ether	U		0.23	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Methylcyclohexane	U		0.25	9.0	µg/Kg-dry	0.729	3/28/2013 17:56
Methylene chloride	**0.66**	J	**0.25**	**4.5**	**µg/Kg-dry**	0.729	3/28/2013 17:56
o-Xylene	U		0.18	2.2	µg/Kg-dry	0.729	3/28/2013 17:56
Styrene	U		0.16	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Tetrachloroethene	U		0.27	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Toluene	U		0.21	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
trans-1,2-Dichloroethene	U		0.26	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
trans-1,3-Dichloropropene	U		0.17	9.0	µg/Kg-dry	0.729	3/28/2013 17:56
Trichloroethene	U		0.21	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Trichlorofluoromethane	U		1.0	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Vinyl chloride	U		0.27	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Xylenes, Total	U		0.52	4.5	µg/Kg-dry	0.729	3/28/2013 17:56
Surr: 1,2-Dichloroethane-d4	*106*			*70-120*	*%REC*	0.729	3/28/2013 17:56
Surr: 4-Bromofluorobenzene	*107*			*75-120*	*%REC*	0.729	3/28/2013 17:56
Surr: Dibromofluoromethane	*14.6*	S		*85-115*	*%REC*	0.729	3/28/2013 17:56
Surr: Toluene-d8	*98.6*			*85-120*	*%REC*	0.729	3/28/2013 17:56
MOISTURE		Method:	**A2540 G**				Analyst: **DC**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-5 (3-5')
Collection Date: 3/22/2013 11:40 AM

Work Order: 1303834
Lab ID: 1303834-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/29/13		Analyst: **LR**
Mercury	**0.077**		**0.00088**	**0.018**	**mg/Kg-dry**	1	3/29/2013 13:47
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/27/13		Analyst: **RH**
Arsenic	**6.8**		**0.067**	**0.50**	**mg/Kg-dry**	1	3/29/2013 17:45
Barium	**340**		**0.14**	**5.0**	**mg/Kg-dry**	10	4/1/2013 21:00
Cadmium	**0.29**		**0.0020**	**0.20**	**mg/Kg-dry**	1	3/29/2013 17:45
Chromium	**17**		**0.081**	**0.50**	**mg/Kg-dry**	1	3/29/2013 17:45
Lead	**65**		**0.0020**	**0.50**	**mg/Kg-dry**	1	3/29/2013 17:45
Selenium	**0.97**		**0.064**	**0.50**	**mg/Kg-dry**	1	3/29/2013 17:45
Silver	**0.031**	J	**0.0020**	**0.50**	**mg/Kg-dry**	1	3/29/2013 17:45
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		7.7	18	mg/Kg-dry	5	4/1/2013 13:06
ORO (C21-C35)	**51**		**8.6**	**18**	**mg/Kg-dry**	5	4/1/2013 13:06
Surr: 4-Terphenyl-d14	*93.0*			*25-137*	*%REC*	5	4/1/2013 13:06
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		30	2,000	µg/Kg-dry	5	4/1/2013 13:06
2,4,5-Trichlorophenol	U		49	980	µg/Kg-dry	5	4/1/2013 13:06
2,4,6-Trichlorophenol	U		49	980	µg/Kg-dry	5	4/1/2013 13:06
2,4-Dichlorophenol	U		60	980	µg/Kg-dry	5	4/1/2013 13:06
2,4-Dimethylphenol	U		250	2,000	µg/Kg-dry	5	4/1/2013 13:06
2,4-Dinitrophenol	U		260	4,100	µg/Kg-dry	5	4/1/2013 13:06
2,4-Dinitrotoluene	U		55	980	µg/Kg-dry	5	4/1/2013 13:06
2,6-Dinitrotoluene	U		57	980	µg/Kg-dry	5	4/1/2013 13:06
2-Chloronaphthalene	U		56	490	µg/Kg-dry	5	4/1/2013 13:06
2-Chlorophenol	U		55	980	µg/Kg-dry	5	4/1/2013 13:06
2-Methylnaphthalene	U		60	490	µg/Kg-dry	5	4/1/2013 13:06
2-Methylphenol	U		59	980	µg/Kg-dry	5	4/1/2013 13:06
2-Nitroaniline	U		47	4,100	µg/Kg-dry	5	4/1/2013 13:06
2-Nitrophenol	U		53	980	µg/Kg-dry	5	4/1/2013 13:06
3,3´-Dichlorobenzidine	U		57	4,100	µg/Kg-dry	5	4/1/2013 13:06
3-Nitroaniline	U		500	4,100	µg/Kg-dry	5	4/1/2013 13:06
4,6-Dinitro-2-methylphenol	U		300	2,000	µg/Kg-dry	5	4/1/2013 13:06
4-Bromophenyl phenyl ether	U		53	980	µg/Kg-dry	5	4/1/2013 13:06
4-Chloro-3-methylphenol	U		55	980	µg/Kg-dry	5	4/1/2013 13:06
4-Chloroaniline	U		78	4,100	µg/Kg-dry	5	4/1/2013 13:06
4-Chlorophenyl phenyl ether	U		56	980	µg/Kg-dry	5	4/1/2013 13:06
4-Methylphenol	U		60	980	µg/Kg-dry	5	4/1/2013 13:06
4-Nitroaniline	U		91	4,100	µg/Kg-dry	5	4/1/2013 13:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-5 (3-5')
Collection Date: 3/22/2013 11:40 AM

Work Order: 1303834
Lab ID: 1303834-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		250	4,100	µg/Kg-dry	5	4/1/2013 13:06
Acenaphthene	U		56	180	µg/Kg-dry	5	4/1/2013 13:06
Acenaphthylene	U		58	180	µg/Kg-dry	5	4/1/2013 13:06
Acetophenone	U		31	2,000	µg/Kg-dry	5	4/1/2013 13:06
Anthracene	U		62	180	µg/Kg-dry	5	4/1/2013 13:06
Atrazine	U		62	2,000	µg/Kg-dry	5	4/1/2013 13:06
Benzaldehyde	U		78	2,000	µg/Kg-dry	5	4/1/2013 13:06
Benzo(a)anthracene	**210**		**75**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Benzo(a)pyrene	**210**		**95**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Benzo(b)fluoranthene	**270**		**99**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Benzo(g,h,i)perylene	**150**	J	**140**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Benzo(k)fluoranthene	**110**	J	**83**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Bis(2-chloroethoxy)methane	U		50	980	µg/Kg-dry	5	4/1/2013 13:06
Bis(2-chloroethyl)ether	U		51	980	µg/Kg-dry	5	4/1/2013 13:06
Bis(2-chloroisopropyl)ether	U		48	980	µg/Kg-dry	5	4/1/2013 13:06
Bis(2-ethylhexyl)phthalate	U		61	2,000	µg/Kg-dry	5	4/1/2013 13:06
Butyl benzyl phthalate	U		85	980	µg/Kg-dry	5	4/1/2013 13:06
Caprolactam	U		89	2,000	µg/Kg-dry	5	4/1/2013 13:06
Carbazole	U		70	980	µg/Kg-dry	5	4/1/2013 13:06
Chrysene	**230**		**69**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Dibenzo(a,h)anthracene	U		100	180	µg/Kg-dry	5	4/1/2013 13:06
Dibenzofuran	U		56	980	µg/Kg-dry	5	4/1/2013 13:06
Diethyl phthalate	U		51	2,000	µg/Kg-dry	5	4/1/2013 13:06
Dimethyl phthalate	U		51	2,000	µg/Kg-dry	5	4/1/2013 13:06
Di-n-butyl phthalate	U		62	2,000	µg/Kg-dry	5	4/1/2013 13:06
Di-n-octyl phthalate	U		76	980	µg/Kg-dry	5	4/1/2013 13:06
Fluoranthene	**440**		**73**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Fluorene	U		54	180	µg/Kg-dry	5	4/1/2013 13:06
Hexachlorobenzene	U		56	980	µg/Kg-dry	5	4/1/2013 13:06
Hexachlorobutadiene	U		52	980	µg/Kg-dry	5	4/1/2013 13:06
Hexachlorocyclopentadiene	U		210	2,000	µg/Kg-dry	5	4/1/2013 13:06
Hexachloroethane	U		54	980	µg/Kg-dry	5	4/1/2013 13:06
Indeno(1,2,3-cd)pyrene	**120**	J	**120**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Isophorone	U		53	980	µg/Kg-dry	5	4/1/2013 13:06
Naphthalene	U		52	180	µg/Kg-dry	5	4/1/2013 13:06
Nitrobenzene	U		53	980	µg/Kg-dry	5	4/1/2013 13:06
N-Nitrosodi-n-propylamine	U		54	980	µg/Kg-dry	5	4/1/2013 13:06
N-Nitrosodiphenylamine	U		360	980	µg/Kg-dry	5	4/1/2013 13:06
Pentachlorophenol	U		91	2,000	µg/Kg-dry	5	4/1/2013 13:06
Phenanthrene	**290**		**180**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-5 (3-5')
Collection Date: 3/22/2013 11:40 AM

Work Order: 1303834
Lab ID: 1303834-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		52	980	µg/Kg-dry	5	4/1/2013 13:06
Pyrene	**360**		**77**	**180**	**µg/Kg-dry**	5	4/1/2013 13:06
Surr: 2,4,6-Tribromophenol	*72.7*			*34-140*	*%REC*	5	4/1/2013 13:06
Surr: 2-Fluorobiphenyl	*75.1*			*12-100*	*%REC*	5	4/1/2013 13:06
Surr: 2-Fluorophenol	*82.6*			*33-117*	*%REC*	5	4/1/2013 13:06
Surr: 4-Terphenyl-d14	*93.0*			*25-137*	*%REC*	5	4/1/2013 13:06
Surr: Nitrobenzene-d5	*75.8*			*37-107*	*%REC*	5	4/1/2013 13:06
Surr: Phenol-d6	*82.5*			*40-106*	*%REC*	5	4/1/2013 13:06
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,500		µg/Kg-dry	1	3/28/2013 06:39
Surr: Toluene-d8	*86.8*			*70-130*	*%REC*	1	3/28/2013 06:39
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,1,2,2-Tetrachloroethane	U		0.14	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,1,2-Trichloroethane	U		0.19	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,1,2-Trichlorotrifluoroethane	U		0.28	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,1-Dichloroethane	U		0.25	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,1-Dichloroethene	U		0.22	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,2,4-Trichlorobenzene	U		0.21	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,2-Dibromo-3-chloropropane	U		0.20	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,2-Dibromoethane	U		0.20	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,2-Dichlorobenzene	U		0.20	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,2-Dichloroethane	U		0.28	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,2-Dichloropropane	U		0.26	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,3-Dichlorobenzene	U		0.19	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
1,4-Dichlorobenzene	U		0.21	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
2-Butanone	**2.7**	J	**0.76**	**9.9**	**µg/Kg-dry**	0.803	3/28/2013 18:24
2-Hexanone	U		0.30	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
4-Methyl-2-pentanone	U		0.20	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Acetone	**28**		**0.93**	**9.9**	**µg/Kg-dry**	0.803	3/28/2013 18:24
Benzene	U		0.25	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Bromodichloromethane	U		0.20	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Bromoform	U		0.15	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Bromomethane	U		0.35	9.9	µg/Kg-dry	0.803	3/28/2013 18:24
Carbon disulfide	**0.42**	J	**0.37**	**5.0**	**µg/Kg-dry**	0.803	3/28/2013 18:24
Carbon tetrachloride	U		0.20	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Chlorobenzene	U		0.22	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Chloroethane	U		0.56	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Chloroform	**0.51**	J	**0.26**	**5.0**	**µg/Kg-dry**	0.803	3/28/2013 18:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-5 (3-5')
Collection Date: 3/22/2013 11:40 AM

Work Order: 1303834
Lab ID: 1303834-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.30	9.9	µg/Kg-dry	0.803	3/28/2013 18:24
cis-1,2-Dichloroethene	U		0.29	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
cis-1,3-Dichloropropene	U		0.18	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Cyclohexane	U		0.32	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Dibromochloromethane	U		0.17	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Dichlorodifluoromethane	U		0.33	9.9	µg/Kg-dry	0.803	3/28/2013 18:24
Ethylbenzene	U		0.19	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Isopropylbenzene	U		0.19	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
m,p-Xylene	U		0.37	2.5	µg/Kg-dry	0.803	3/28/2013 18:24
Methyl acetate	U		0.80	9.9	µg/Kg-dry	0.803	3/28/2013 18:24
Methyl tert-butyl ether	U		0.25	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Methylcyclohexane	U		0.28	9.9	µg/Kg-dry	0.803	3/28/2013 18:24
Methylene chloride	**0.78**	J	**0.28**	**5.0**	**µg/Kg-dry**	0.803	3/28/2013 18:24
o-Xylene	U		0.20	2.5	µg/Kg-dry	0.803	3/28/2013 18:24
Styrene	U		0.18	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Tetrachloroethene	U		0.30	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Toluene	U		0.23	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
trans-1,2-Dichloroethene	U		0.29	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
trans-1,3-Dichloropropene	U		0.18	9.9	µg/Kg-dry	0.803	3/28/2013 18:24
Trichloroethene	U		0.23	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Trichlorofluoromethane	U		1.2	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Vinyl chloride	U		0.30	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Xylenes, Total	U		0.57	5.0	µg/Kg-dry	0.803	3/28/2013 18:24
Surr: 1,2-Dichloroethane-d4	*106*			*70-120*	*%REC*	0.803	3/28/2013 18:24
Surr: 4-Bromofluorobenzene	*109*			*75-120*	*%REC*	0.803	3/28/2013 18:24
Surr: Dibromofluoromethane	*12.5*	S		*85-115*	*%REC*	0.803	3/28/2013 18:24
Surr: Toluene-d8	*98.0*			*85-120*	*%REC*	0.803	3/28/2013 18:24

MOISTURE Method: **A2540 G** Analyst: **DC**

Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (6-8')
Collection Date: 3/22/2013 12:15 PM

Work Order: 1303834
Lab ID: 1303834-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/29/13		Analyst: **LR**
Mercury	**0.047**		**0.00089**	**0.018**	**mg/Kg-dry**	1	3/29/2013 13:49
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/13		Analyst: **RH**
Arsenic	**6.5**		**0.071**	**0.52**	**mg/Kg-dry**	1	3/29/2013 17:51
Barium	**300**		**0.15**	**5.2**	**mg/Kg-dry**	10	4/1/2013 21:06
Cadmium	**0.27**		**0.0021**	**0.21**	**mg/Kg-dry**	1	3/29/2013 17:51
Chromium	**18**		**0.085**	**0.52**	**mg/Kg-dry**	1	3/29/2013 17:51
Lead	**17**		**0.0021**	**0.52**	**mg/Kg-dry**	1	3/29/2013 17:51
Selenium	**1.1**		**0.067**	**0.52**	**mg/Kg-dry**	1	3/29/2013 17:51
Silver	**0.033**	J	**0.0021**	**0.52**	**mg/Kg-dry**	1	3/29/2013 17:51
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	4/1/2013 09:36
ORO (C21-C35)	**18**		**1.8**	**3.7**	**mg/Kg-dry**	1	4/1/2013 09:36
Surr: 4-Terphenyl-d14	*99.1*			*25-137*	*%REC*	1	4/1/2013 09:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.4	420	µg/Kg-dry	1	4/1/2013 09:36
2,4,5-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 09:36
2,4,6-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 09:36
2,4-Dichlorophenol	U		12	210	µg/Kg-dry	1	4/1/2013 09:36
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	4/1/2013 09:36
2,4-Dinitrophenol	U		54	850	µg/Kg-dry	1	4/1/2013 09:36
2,4-Dinitrotoluene	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
2,6-Dinitrotoluene	U		12	210	µg/Kg-dry	1	4/1/2013 09:36
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	4/1/2013 09:36
2-Chlorophenol	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
2-Methylnaphthalene	U		13	100	µg/Kg-dry	1	4/1/2013 09:36
2-Methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 09:36
2-Nitroaniline	U		9.8	850	µg/Kg-dry	1	4/1/2013 09:36
2-Nitrophenol	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
3,3´-Dichlorobenzidine	U		12	850	µg/Kg-dry	1	4/1/2013 09:36
3-Nitroaniline	U		100	850	µg/Kg-dry	1	4/1/2013 09:36
4,6-Dinitro-2-methylphenol	U		62	420	µg/Kg-dry	1	4/1/2013 09:36
4-Bromophenyl phenyl ether	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
4-Chloro-3-methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 09:36
4-Chloroaniline	U		16	850	µg/Kg-dry	1	4/1/2013 09:36
4-Chlorophenyl phenyl ether	U		12	210	µg/Kg-dry	1	4/1/2013 09:36
4-Methylphenol	U		13	210	µg/Kg-dry	1	4/1/2013 09:36
4-Nitroaniline	U		19	850	µg/Kg-dry	1	4/1/2013 09:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (6-8')
Collection Date: 3/22/2013 12:15 PM

Work Order: 1303834
Lab ID: 1303834-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		52	850	µg/Kg-dry	1	4/1/2013 09:36
Acenaphthene	U		12	39	µg/Kg-dry	1	4/1/2013 09:36
Acenaphthylene	U		12	39	µg/Kg-dry	1	4/1/2013 09:36
Acetophenone	U		6.4	420	µg/Kg-dry	1	4/1/2013 09:36
Anthracene	U		13	39	µg/Kg-dry	1	4/1/2013 09:36
Atrazine	U		13	420	µg/Kg-dry	1	4/1/2013 09:36
Benzaldehyde	U		16	420	µg/Kg-dry	1	4/1/2013 09:36
Benzo(a)anthracene	**49**		**16**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Benzo(a)pyrene	**44**		**20**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Benzo(b)fluoranthene	**60**		**21**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Benzo(g,h,i)perylene	**33**	J	**30**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Benzo(k)fluoranthene	**24**	J	**17**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Bis(2-chloroethoxy)methane	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
Bis(2-chloroethyl)ether	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
Bis(2-chloroisopropyl)ether	U		10	210	µg/Kg-dry	1	4/1/2013 09:36
Bis(2-ethylhexyl)phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 09:36
Butyl benzyl phthalate	U		18	210	µg/Kg-dry	1	4/1/2013 09:36
Caprolactam	U		19	420	µg/Kg-dry	1	4/1/2013 09:36
Carbazole	U		15	210	µg/Kg-dry	1	4/1/2013 09:36
Chrysene	**54**		**15**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Dibenzo(a,h)anthracene	U		22	39	µg/Kg-dry	1	4/1/2013 09:36
Dibenzofuran	U		12	210	µg/Kg-dry	1	4/1/2013 09:36
Diethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 09:36
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 09:36
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 09:36
Di-n-octyl phthalate	U		16	210	µg/Kg-dry	1	4/1/2013 09:36
Fluoranthene	**110**		**15**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Fluorene	U		11	39	µg/Kg-dry	1	4/1/2013 09:36
Hexachlorobenzene	U		12	210	µg/Kg-dry	1	4/1/2013 09:36
Hexachlorobutadiene	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
Hexachlorocyclopentadiene	U		45	420	µg/Kg-dry	1	4/1/2013 09:36
Hexachloroethane	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
Indeno(1,2,3-cd)pyrene	**27**	J	**24**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Isophorone	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
Naphthalene	U		11	39	µg/Kg-dry	1	4/1/2013 09:36
Nitrobenzene	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
N-Nitrosodi-n-propylamine	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
N-Nitrosodiphenylamine	U		76	210	µg/Kg-dry	1	4/1/2013 09:36
Pentachlorophenol	U		19	420	µg/Kg-dry	1	4/1/2013 09:36
Phenanthrene	**62**		**39**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (6-8')
Collection Date: 3/22/2013 12:15 PM

Work Order: 1303834
Lab ID: 1303834-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	210	µg/Kg-dry	1	4/1/2013 09:36
Pyrene	**85**		**16**	**39**	**µg/Kg-dry**	1	4/1/2013 09:36
Surr: 2,4,6-Tribromophenol	*80.5*			*34-140*	*%REC*	1	4/1/2013 09:36
Surr: 2-Fluorobiphenyl	*77.1*			*12-100*	*%REC*	1	4/1/2013 09:36
Surr: 2-Fluorophenol	*90.3*			*33-117*	*%REC*	1	4/1/2013 09:36
Surr: 4-Terphenyl-d14	*99.1*			*25-137*	*%REC*	1	4/1/2013 09:36
Surr: Nitrobenzene-d5	*81.8*			*37-107*	*%REC*	1	4/1/2013 09:36
Surr: Phenol-d6	*89.2*			*40-106*	*%REC*	1	4/1/2013 09:36
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/28/2013 07:02
Surr: Toluene-d8	*87.2*			*70-130*	*%REC*	1	3/28/2013 07:02
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.26	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,1,2,2-Tetrachloroethane	U		0.17	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,1,2-Trichloroethane	U		0.23	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,1,2-Trichlorotrifluoroethane	U		0.33	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,1-Dichloroethane	U		0.30	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,1-Dichloroethene	U		0.27	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,2,4-Trichlorobenzene	U		0.24	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,2-Dibromo-3-chloropropane	U		0.23	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,2-Dibromoethane	U		0.24	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,2-Dichlorobenzene	U		0.24	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,2-Dichloroethane	U		0.32	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,2-Dichloropropane	U		0.30	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,3-Dichlorobenzene	U		0.22	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
1,4-Dichlorobenzene	U		0.25	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
2-Butanone	**3.7**	J	**0.90**	**12**	**µg/Kg-dry**	0.906	3/28/2013 18:52
2-Hexanone	U		0.35	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
4-Methyl-2-pentanone	U		0.23	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Acetone	**30**		**1.1**	**12**	**µg/Kg-dry**	0.906	3/28/2013 18:52
Benzene	U		0.29	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Bromodichloromethane	U		0.24	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Bromoform	U		0.18	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Bromomethane	U		0.41	12	µg/Kg-dry	0.906	3/28/2013 18:52
Carbon disulfide	**0.53**	J	**0.43**	**5.9**	**µg/Kg-dry**	0.906	3/28/2013 18:52
Carbon tetrachloride	U		0.24	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Chlorobenzene	U		0.26	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Chloroethane	U		0.66	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Chloroform	**0.66**	J	**0.31**	**5.9**	**µg/Kg-dry**	0.906	3/28/2013 18:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (6-8')
Collection Date: 3/22/2013 12:15 PM

Work Order: 1303834
Lab ID: 1303834-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.36	12	µg/Kg-dry	0.906	3/28/2013 18:52
cis-1,2-Dichloroethene	U		0.35	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
cis-1,3-Dichloropropene	U		0.21	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Cyclohexane	U		0.37	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Dibromochloromethane	U		0.20	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Dichlorodifluoromethane	U		0.39	12	µg/Kg-dry	0.906	3/28/2013 18:52
Ethylbenzene	U		0.23	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Isopropylbenzene	U		0.23	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
m,p-Xylene	U		0.44	2.9	µg/Kg-dry	0.906	3/28/2013 18:52
Methyl acetate	U		0.94	12	µg/Kg-dry	0.906	3/28/2013 18:52
Methyl tert-butyl ether	U		0.30	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Methylcyclohexane	U		0.33	12	µg/Kg-dry	0.906	3/28/2013 18:52
Methylene chloride	**1.1**	J	**0.33**	**5.9**	**µg/Kg-dry**	0.906	3/28/2013 18:52
o-Xylene	U		0.23	2.9	µg/Kg-dry	0.906	3/28/2013 18:52
Styrene	U		0.21	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Tetrachloroethene	U		0.35	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Toluene	U		0.28	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
trans-1,2-Dichloroethene	U		0.34	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
trans-1,3-Dichloropropene	U		0.22	12	µg/Kg-dry	0.906	3/28/2013 18:52
Trichloroethene	U		0.27	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Trichlorofluoromethane	U		1.4	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Vinyl chloride	U		0.36	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Xylenes, Total	U		0.68	5.9	µg/Kg-dry	0.906	3/28/2013 18:52
Surr: 1,2-Dichloroethane-d4	*113*			*70-120*	*%REC*	0.906	3/28/2013 18:52
Surr: 4-Bromofluorobenzene	*107*			*75-120*	*%REC*	0.906	3/28/2013 18:52
Surr: Dibromofluoromethane	*7.85*	S		*85-115*	*%REC*	0.906	3/28/2013 18:52
Surr: Toluene-d8	*99.4*			*85-120*	*%REC*	0.906	3/28/2013 18:52

MOISTURE Method: **A2540 G** Analyst: **DC**

Moisture	**23**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (11-13')
Collection Date: 3/22/2013 12:20 PM

Work Order: 1303834
Lab ID: 1303834-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method:	**SW7471**		Prep: SW7471 / 3/29/13		Analyst: **LR**
Mercury	**0.042**		**0.00093**	**0.019**	**mg/Kg-dry**	1	3/29/2013 13:51
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/13		Analyst: **RH**
Arsenic	**5.5**		**0.062**	**0.45**	**mg/Kg-dry**	1	3/29/2013 18:21
Barium	**250**		**0.13**	**4.5**	**mg/Kg-dry**	10	4/1/2013 21:12
Cadmium	**0.33**		**0.0018**	**0.18**	**mg/Kg-dry**	1	4/1/2013 21:18
Chromium	**13**		**0.074**	**0.45**	**mg/Kg-dry**	1	3/29/2013 18:21
Lead	**43**		**0.0018**	**0.45**	**mg/Kg-dry**	1	4/1/2013 21:18
Selenium	**0.75**		**0.058**	**0.45**	**mg/Kg-dry**	1	3/29/2013 18:21
Silver	**0.032**	J	**0.0018**	**0.45**	**mg/Kg-dry**	1	4/1/2013 21:18
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		7.6	18	mg/Kg-dry	5	4/1/2013 13:36
ORO (C21-C35)	**100**		**8.5**	**18**	**mg/Kg-dry**	5	4/1/2013 13:36
Surr: 4-Terphenyl-d14	*92.3*			*25-137*	*%REC*	5	4/1/2013 13:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		30	2,000	µg/Kg-dry	5	4/1/2013 13:36
2,4,5-Trichlorophenol	U		48	970	µg/Kg-dry	5	4/1/2013 13:36
2,4,6-Trichlorophenol	U		48	970	µg/Kg-dry	5	4/1/2013 13:36
2,4-Dichlorophenol	U		59	970	µg/Kg-dry	5	4/1/2013 13:36
2,4-Dimethylphenol	U		250	2,000	µg/Kg-dry	5	4/1/2013 13:36
2,4-Dinitrophenol	U		260	4,000	µg/Kg-dry	5	4/1/2013 13:36
2,4-Dinitrotoluene	U		54	970	µg/Kg-dry	5	4/1/2013 13:36
2,6-Dinitrotoluene	U		57	970	µg/Kg-dry	5	4/1/2013 13:36
2-Chloronaphthalene	U		55	490	µg/Kg-dry	5	4/1/2013 13:36
2-Chlorophenol	U		54	970	µg/Kg-dry	5	4/1/2013 13:36
2-Methylnaphthalene	U		60	490	µg/Kg-dry	5	4/1/2013 13:36
2-Methylphenol	U		58	970	µg/Kg-dry	5	4/1/2013 13:36
2-Nitroaniline	U		46	4,000	µg/Kg-dry	5	4/1/2013 13:36
2-Nitrophenol	U		53	970	µg/Kg-dry	5	4/1/2013 13:36
3,3´-Dichlorobenzidine	U		57	4,000	µg/Kg-dry	5	4/1/2013 13:36
3-Nitroaniline	U		490	4,000	µg/Kg-dry	5	4/1/2013 13:36
4,6-Dinitro-2-methylphenol	U		290	2,000	µg/Kg-dry	5	4/1/2013 13:36
4-Bromophenyl phenyl ether	U		53	970	µg/Kg-dry	5	4/1/2013 13:36
4-Chloro-3-methylphenol	U		55	970	µg/Kg-dry	5	4/1/2013 13:36
4-Chloroaniline	U		77	4,000	µg/Kg-dry	5	4/1/2013 13:36
4-Chlorophenyl phenyl ether	U		55	970	µg/Kg-dry	5	4/1/2013 13:36
4-Methylphenol	U		60	970	µg/Kg-dry	5	4/1/2013 13:36
4-Nitroaniline	U		90	4,000	µg/Kg-dry	5	4/1/2013 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (11-13')
Collection Date: 3/22/2013 12:20 PM

Work Order: 1303834
Lab ID: 1303834-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		250	4,000	µg/Kg-dry	5	4/1/2013 13:36
Acenaphthene	**120**	J	**55**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Acenaphthylene	**150**	J	**57**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Acetophenone	U		30	2,000	µg/Kg-dry	5	4/1/2013 13:36
Anthracene	**360**		**62**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Atrazine	U		61	2,000	µg/Kg-dry	5	4/1/2013 13:36
Benzaldehyde	U		77	2,000	µg/Kg-dry	5	4/1/2013 13:36
Benzo(a)anthracene	**850**		**74**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Benzo(a)pyrene	**830**		**94**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Benzo(b)fluoranthene	**1,100**		**98**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Benzo(g,h,i)perylene	**480**		**140**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Benzo(k)fluoranthene	**360**		**83**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Bis(2-chloroethoxy)methane	U		50	970	µg/Kg-dry	5	4/1/2013 13:36
Bis(2-chloroethyl)ether	U		51	970	µg/Kg-dry	5	4/1/2013 13:36
Bis(2-chloroisopropyl)ether	U		47	970	µg/Kg-dry	5	4/1/2013 13:36
Bis(2-ethylhexyl)phthalate	U		60	2,000	µg/Kg-dry	5	4/1/2013 13:36
Butyl benzyl phthalate	U		84	970	µg/Kg-dry	5	4/1/2013 13:36
Caprolactam	U		88	2,000	µg/Kg-dry	5	4/1/2013 13:36
Carbazole	U		69	970	µg/Kg-dry	5	4/1/2013 13:36
Chrysene	**870**		**69**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Dibenzo(a,h)anthracene	**140**	J	**100**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Dibenzofuran	**110**	J	**55**	**970**	**µg/Kg-dry**	5	4/1/2013 13:36
Diethyl phthalate	U		50	2,000	µg/Kg-dry	5	4/1/2013 13:36
Dimethyl phthalate	U		51	2,000	µg/Kg-dry	5	4/1/2013 13:36
Di-n-butyl phthalate	U		61	2,000	µg/Kg-dry	5	4/1/2013 13:36
Di-n-octyl phthalate	U		75	970	µg/Kg-dry	5	4/1/2013 13:36
Fluoranthene	**2,000**		**72**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Fluorene	**190**		**53**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Hexachlorobenzene	U		55	970	µg/Kg-dry	5	4/1/2013 13:36
Hexachlorobutadiene	U		51	970	µg/Kg-dry	5	4/1/2013 13:36
Hexachlorocyclopentadiene	U		210	2,000	µg/Kg-dry	5	4/1/2013 13:36
Hexachloroethane	U		53	970	µg/Kg-dry	5	4/1/2013 13:36
Indeno(1,2,3-cd)pyrene	**430**		**110**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Isophorone	U		53	970	µg/Kg-dry	5	4/1/2013 13:36
Naphthalene	U		52	180	µg/Kg-dry	5	4/1/2013 13:36
Nitrobenzene	U		52	970	µg/Kg-dry	5	4/1/2013 13:36
N-Nitrosodi-n-propylamine	U		53	970	µg/Kg-dry	5	4/1/2013 13:36
N-Nitrosodiphenylamine	U		360	970	µg/Kg-dry	5	4/1/2013 13:36
Pentachlorophenol	U		90	2,000	µg/Kg-dry	5	4/1/2013 13:36
Phenanthrene	**1,500**		**180**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (11-13')
Collection Date: 3/22/2013 12:20 PM

Work Order: 1303834
Lab ID: 1303834-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		51	970	µg/Kg-dry	5	4/1/2013 13:36
Pyrene	**1,600**		**76**	**180**	**µg/Kg-dry**	5	4/1/2013 13:36
Surr: 2,4,6-Tribromophenol	*74.6*			*34-140*	*%REC*	5	4/1/2013 13:36
Surr: 2-Fluorobiphenyl	*78.1*			*12-100*	*%REC*	5	4/1/2013 13:36
Surr: 2-Fluorophenol	*79.5*			*33-117*	*%REC*	5	4/1/2013 13:36
Surr: 4-Terphenyl-d14	*92.3*			*25-137*	*%REC*	5	4/1/2013 13:36
Surr: Nitrobenzene-d5	*74.0*			*37-107*	*%REC*	5	4/1/2013 13:36
Surr: Phenol-d6	*81.8*			*40-106*	*%REC*	5	4/1/2013 13:36
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,500		µg/Kg-dry	1	3/28/2013 07:25
Surr: Toluene-d8	*87.9*			*70-130*	*%REC*	1	3/28/2013 07:25
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,1,2,2-Tetrachloroethane	U		0.15	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,1,2-Trichloroethane	U		0.20	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,1,2-Trichlorotrifluoroethane	U		0.29	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,1-Dichloroethane	U		0.27	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,1-Dichloroethene	U		0.24	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,2,4-Trichlorobenzene	U		0.22	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,2-Dibromo-3-chloropropane	U		0.21	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,2-Dibromoethane	U		0.21	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,2-Dichlorobenzene	U		0.21	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,2-Dichloroethane	U		0.29	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,2-Dichloropropane	U		0.27	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,3-Dichlorobenzene	U		0.20	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
1,4-Dichlorobenzene	U		0.22	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
2-Butanone	**4.1**	J	**0.80**	**10**	**µg/Kg-dry**	0.846	3/28/2013 19:19
2-Hexanone	U		0.31	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
4-Methyl-2-pentanone	U		0.21	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Acetone	**20**		**0.98**	**10**	**µg/Kg-dry**	0.846	3/28/2013 19:19
Benzene	U		0.26	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Bromodichloromethane	U		0.22	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Bromoform	U		0.16	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Bromomethane	U		0.37	10	µg/Kg-dry	0.846	3/28/2013 19:19
Carbon disulfide	**0.43**	J	**0.38**	**5.2**	**µg/Kg-dry**	0.846	3/28/2013 19:19
Carbon tetrachloride	U		0.21	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Chlorobenzene	U		0.23	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Chloroethane	U		0.59	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Chloroform	**0.56**	J	**0.27**	**5.2**	**µg/Kg-dry**	0.846	3/28/2013 19:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: SB-6 (11-13')
Collection Date: 3/22/2013 12:20 PM

Work Order: 1303834
Lab ID: 1303834-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.32	10	µg/Kg-dry	0.846	3/28/2013 19:19
cis-1,2-Dichloroethene	U		0.31	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
cis-1,3-Dichloropropene	U		0.19	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Cyclohexane	U		0.33	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Dibromochloromethane	U		0.18	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Dichlorodifluoromethane	U		0.35	10	µg/Kg-dry	0.846	3/28/2013 19:19
Ethylbenzene	U		0.20	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Isopropylbenzene	U		0.20	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
m,p-Xylene	U		0.39	2.6	µg/Kg-dry	0.846	3/28/2013 19:19
Methyl acetate	U		0.84	10	µg/Kg-dry	0.846	3/28/2013 19:19
Methyl tert-butyl ether	U		0.26	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Methylcyclohexane	U		0.29	10	µg/Kg-dry	0.846	3/28/2013 19:19
Methylene chloride	**0.79**	J	**0.30**	**5.2**	**µg/Kg-dry**	0.846	3/28/2013 19:19
o-Xylene	U		0.21	2.6	µg/Kg-dry	0.846	3/28/2013 19:19
Styrene	U		0.19	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Tetrachloroethene	U		0.31	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Toluene	U		0.25	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
trans-1,2-Dichloroethene	U		0.31	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.846	3/28/2013 19:19
Trichloroethene	U		0.24	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Trichlorofluoromethane	U		1.2	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Vinyl chloride	U		0.32	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Xylenes, Total	U		0.60	5.2	µg/Kg-dry	0.846	3/28/2013 19:19
Surr: 1,2-Dichloroethane-d4	*105*			*70-120*	*%REC*	0.846	3/28/2013 19:19
Surr: 4-Bromofluorobenzene	*112*			*75-120*	*%REC*	0.846	3/28/2013 19:19
Surr: Dibromofluoromethane	*7.95*	S		*85-115*	*%REC*	0.846	3/28/2013 19:19
Surr: Toluene-d8	*98.5*			*85-120*	*%REC*	0.846	3/28/2013 19:19
MOISTURE		Method:	**A2540 G**				Analyst: **DC**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Field Blank
Collection Date: 3/22/2013 05:30 PM

Work Order: 1303834
Lab ID: 1303834-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method:	**SW8151**		Prep: SW8151M / 3/27/13		Analyst: **RM**
2,4,5-T	U		0.036	0.10	µg/L	1	4/1/2013 14:52
2,4,5-TP (Silvex)	U		0.068	0.20	µg/L	1	4/1/2013 14:52
2,4-D	U		0.083	0.20	µg/L	1	4/1/2013 14:52
2,4-DB	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dalapon	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dicamba	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dichlorprop	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dinoseb	U		0.050	0.10	µg/L	1	4/1/2013 14:52
MCPA	U		0.10	0.20	µg/L	1	4/1/2013 14:52
MCPP	U		0.10	0.20	µg/L	1	4/1/2013 14:52
Surr: DCAA	*84.6*			*30-150*	*%REC*	1	4/1/2013 14:52
PESTICIDES		Method:	**SW8081**		Prep: SW3510 / 3/29/13		Analyst: **RM**
4,4´-DDD	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
4,4´-DDE	U		0.0025	0.020	µg/L	1	4/1/2013 16:08
4,4´-DDT	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Aldrin	U		0.0054	0.010	µg/L	1	4/1/2013 16:08
alpha-BHC	U		0.0028	0.010	µg/L	1	4/1/2013 16:08
alpha-Chlordane	U		0.0038	0.020	µg/L	1	4/1/2013 16:08
beta-BHC	U		0.0066	0.010	µg/L	1	4/1/2013 16:08
Chlordane, Technical	U		0.022	0.50	µg/L	1	4/1/2013 16:08
delta-BHC	U		0.0026	0.010	µg/L	1	4/1/2013 16:08
Dieldrin	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endosulfan I	U		0.0024	0.020	µg/L	1	4/1/2013 16:08
Endosulfan II	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Endosulfan sulfate	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endrin	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endrin aldehyde	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Endrin ketone	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
gamma-BHC (Lindane)	U		0.0030	0.010	µg/L	1	4/1/2013 16:08
gamma-Chlordane	U		0.0030	0.020	µg/L	1	4/1/2013 16:08
Heptachlor	U		0.0083	0.010	µg/L	1	4/1/2013 16:08
Heptachlor epoxide	U		0.0030	0.010	µg/L	1	4/1/2013 16:08
Methoxychlor	U		0.0030	0.040	µg/L	1	4/1/2013 16:08
Toxaphene	U		0.042	2.0	µg/L	1	4/1/2013 16:08
Surr: Decachlorobiphenyl	*78.0*			*30-145*	*%REC*	1	4/1/2013 16:08
Surr: Tetrachloro-m-xylene	*80.0*			*25-140*	*%REC*	1	4/1/2013 16:08
MERCURY BY CVAA		Method:	**SW7470**		Prep: SW7470 / 3/29/13		Analyst: **LR**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Field Blank
Collection Date: 3/22/2013 05:30 PM

Work Order: 1303834
Lab ID: 1303834-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	U		0.00010	0.00020	mg/L	1	3/29/2013 12:27
METALS BY ICP-MS			Method: **SW6020A**		Prep: SW3005A / 3/27/13		Analyst: **RH**
Arsenic	U		0.00058	0.0050	mg/L	1	3/27/2013 18:52
Barium	**0.00020**	J	**0.000063**	**0.0050**	**mg/L**	1	3/27/2013 18:52
Cadmium	U		0.000045	0.0020	mg/L	1	3/27/2013 18:52
Chromium	**0.00062**	J	**0.00027**	**0.0050**	**mg/L**	1	3/27/2013 18:52
Lead	**0.00012**	J	**0.000051**	**0.0030**	**mg/L**	1	3/27/2013 18:52
Selenium	**0.00070**	J	**0.00064**	**0.0050**	**mg/L**	1	3/27/2013 18:52
Silver	U		0.000042	0.00020	mg/L	1	3/27/2013 18:52
DIESEL RANGE ORGANICS BY GC-MS			Method: **SW8270**		Prep: SW3510 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		0.013	0.10	mg/L	1	4/1/2013 08:07
ORO (C21-C35)	U		0.027	0.10	mg/L	1	4/1/2013 08:07
Surr: 4-Terphenyl-d14	*92.5*			*23-112*	*%REC*	1	4/1/2013 08:07
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: **SW8270**		Prep: SW3510 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		0.095	5.0	µg/L	1	3/29/2013 06:16
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	3/29/2013 06:16
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	3/29/2013 06:16
2,4-Dichlorophenol	U		0.22	10	µg/L	1	3/29/2013 06:16
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	3/29/2013 06:16
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	3/29/2013 06:16
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	3/29/2013 06:16
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	3/29/2013 06:16
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	3/29/2013 06:16
2-Chlorophenol	U		0.73	5.0	µg/L	1	3/29/2013 06:16
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	3/29/2013 06:16
2-Methylphenol	U		0.60	5.0	µg/L	1	3/29/2013 06:16
2-Nitroaniline	U		0.11	20	µg/L	1	3/29/2013 06:16
2-Nitrophenol	U		0.19	5.0	µg/L	1	3/29/2013 06:16
3,3´-Dichlorobenzidine	U		0.54	5.0	µg/L	1	3/29/2013 06:16
3-Nitroaniline	U		2.5	20	µg/L	1	3/29/2013 06:16
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	3/29/2013 06:16
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	3/29/2013 06:16
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	3/29/2013 06:16
4-Chloroaniline	U		1.1	20	µg/L	1	3/29/2013 06:16
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	3/29/2013 06:16
4-Methylphenol	U		0.55	5.0	µg/L	1	3/29/2013 06:16
4-Nitroaniline	U		1.5	20	µg/L	1	3/29/2013 06:16
4-Nitrophenol	U		1.6	20	µg/L	1	3/29/2013 06:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Field Blank
Collection Date: 3/22/2013 05:30 PM

Work Order: 1303834
Lab ID: 1303834-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthene	U		0.11	5.0	µg/L	1	3/29/2013 06:16
Acenaphthylene	U		0.12	5.0	µg/L	1	3/29/2013 06:16
Acetophenone	U		0.090	1.0	µg/L	1	3/29/2013 06:16
Anthracene	U		0.72	5.0	µg/L	1	3/29/2013 06:16
Atrazine	U		3.2	10	µg/L	1	3/29/2013 06:16
Benzaldehyde	U		0.46	1.0	µg/L	1	3/29/2013 06:16
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	3/29/2013 06:16
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	3/29/2013 06:16
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	3/29/2013 06:16
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	3/29/2013 06:16
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	3/29/2013 06:16
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	3/29/2013 06:16
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	3/29/2013 06:16
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	3/29/2013 06:16
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	3/29/2013 06:16
Butyl benzyl phthalate	**1.5**	J	**0.11**	**5.0**	**µg/L**	1	3/29/2013 06:16
Caprolactam	U		4.7	10	µg/L	1	3/29/2013 06:16
Carbazole	U		0.84	10	µg/L	1	3/29/2013 06:16
Chrysene	U		0.71	5.0	µg/L	1	3/29/2013 06:16
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	3/29/2013 06:16
Dibenzofuran	U		0.11	5.0	µg/L	1	3/29/2013 06:16
Diethyl phthalate	U		0.69	20	µg/L	1	3/29/2013 06:16
Dimethyl phthalate	U		0.14	20	µg/L	1	3/29/2013 06:16
Di-n-butyl phthalate	**0.92**	J	**0.71**	**5.0**	**µg/L**	1	3/29/2013 06:16
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	3/29/2013 06:16
Fluoranthene	U		0.77	5.0	µg/L	1	3/29/2013 06:16
Fluorene	U		0.10	5.0	µg/L	1	3/29/2013 06:16
Hexachlorobenzene	U		0.10	5.0	µg/L	1	3/29/2013 06:16
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	3/29/2013 06:16
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	3/29/2013 06:16
Hexachloroethane	U		0.13	5.0	µg/L	1	3/29/2013 06:16
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	3/29/2013 06:16
Isophorone	U		0.12	5.0	µg/L	1	3/29/2013 06:16
Naphthalene	U		0.12	5.0	µg/L	1	3/29/2013 06:16
Nitrobenzene	U		0.10	5.0	µg/L	1	3/29/2013 06:16
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	3/29/2013 06:16
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	3/29/2013 06:16
Pentachlorophenol	U		0.11	20	µg/L	1	3/29/2013 06:16
Phenanthrene	U		0.86	5.0	µg/L	1	3/29/2013 06:16
Phenol	U		0.094	5.0	µg/L	1	3/29/2013 06:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Field Blank
Collection Date: 3/22/2013 05:30 PM

Work Order: 1303834
Lab ID: 1303834-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	U		0.65	5.0	µg/L	1	3/29/2013 06:16
Surr: 2,4,6-Tribromophenol	*68.8*			*32-115*	*%REC*	1	3/29/2013 06:16
Surr: 2-Fluorobiphenyl	*68.4*			*32-100*	*%REC*	1	3/29/2013 06:16
Surr: 2-Fluorophenol	*39.7*			*22-59*	*%REC*	1	3/29/2013 06:16
Surr: 4-Terphenyl-d14	*89.3*			*23-112*	*%REC*	1	3/29/2013 06:16
Surr: Nitrobenzene-d5	*70.5*			*31-93*	*%REC*	1	3/29/2013 06:16
Surr: Phenol-d6	*21.1*			*13-36*	*%REC*	1	3/29/2013 06:16
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	3/28/2013 02:46
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	3/28/2013 02:46
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	3/28/2013 02:46
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	3/28/2013 02:46
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	3/28/2013 02:46
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 02:46
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	3/28/2013 02:46
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	3/28/2013 02:46
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	3/28/2013 02:46
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 02:46
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	3/28/2013 02:46
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	3/28/2013 02:46
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	3/28/2013 02:46
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	3/28/2013 02:46
2-Butanone	U		0.22	5.0	µg/L	1	3/28/2013 02:46
2-Hexanone	U		0.12	5.0	µg/L	1	3/28/2013 02:46
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	3/28/2013 02:46
Acetone	U		0.33	20	µg/L	1	3/28/2013 02:46
Benzene	U		0.18	1.0	µg/L	1	3/28/2013 02:46
Bromodichloromethane	U		0.12	1.0	µg/L	1	3/28/2013 02:46
Bromoform	U		0.15	1.0	µg/L	1	3/28/2013 02:46
Bromomethane	U		0.21	1.0	µg/L	1	3/28/2013 02:46
Carbon disulfide	U		0.17	2.5	µg/L	1	3/28/2013 02:46
Carbon tetrachloride	U		0.12	1.0	µg/L	1	3/28/2013 02:46
Chlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 02:46
Chloroethane	U		0.46	1.0	µg/L	1	3/28/2013 02:46
Chloroform	U		0.15	1.0	µg/L	1	3/28/2013 02:46
Chloromethane	U		0.16	1.0	µg/L	1	3/28/2013 02:46
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	3/28/2013 02:46
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	3/28/2013 02:46
Cyclohexane	U		0.22	5.0	µg/L	1	3/28/2013 02:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Field Blank
Collection Date: 3/22/2013 05:30 PM

Work Order: 1303834
Lab ID: 1303834-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.13	1.0	µg/L	1	3/28/2013 02:46
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	3/28/2013 02:46
Ethylbenzene	U		0.13	1.0	µg/L	1	3/28/2013 02:46
GRO (C6-C10)	U		25	100	µg/L	1	3/28/2013 02:46
Isopropylbenzene	U		0.14	1.0	µg/L	1	3/28/2013 02:46
m,p-Xylene	U		0.20	2.0	µg/L	1	3/28/2013 02:46
Methyl acetate	U		0.19	2.0	µg/L	1	3/28/2013 02:46
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	3/28/2013 02:46
Methylcyclohexane	U		0.99	5.0	µg/L	1	3/28/2013 02:46
Methylene chloride	U		0.19	5.0	µg/L	1	3/28/2013 02:46
o-Xylene	U		0.086	1.0	µg/L	1	3/28/2013 02:46
Styrene	U		0.11	1.0	µg/L	1	3/28/2013 02:46
Tetrachloroethene	U		0.15	2.0	µg/L	1	3/28/2013 02:46
Toluene	U		0.12	1.0	µg/L	1	3/28/2013 02:46
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 02:46
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	3/28/2013 02:46
Trichloroethene	U		0.14	1.0	µg/L	1	3/28/2013 02:46
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	3/28/2013 02:46
Vinyl chloride	U		0.17	1.0	µg/L	1	3/28/2013 02:46
Xylenes, Total	U		0.29	3.0	µg/L	1	3/28/2013 02:46
Surr: 1,2-Dichloroethane-d4	*97.8*			*70-120*	*%REC*	1	3/28/2013 02:46
Surr: 4-Bromofluorobenzene	*98.8*			*75-120*	*%REC*	1	3/28/2013 02:46
Surr: Dibromofluoromethane	*100*			*85-115*	*%REC*	1	3/28/2013 02:46
Surr: Toluene-d8	*96.0*			*85-120*	*%REC*	1	3/28/2013 02:46
Surr: Toluene-d8	*89.1*			*85-120*	*%REC*	1	3/28/2013 02:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Rinsate Blank
Collection Date: 3/22/2013 06:00 PM

Work Order: 1303834
Lab ID: 1303834-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method:	**SW8151**		Prep: SW8151M / 3/27/13		Analyst: **RM**
2,4,5-T	U		0.036	0.10	µg/L	1	4/1/2013 14:52
2,4,5-TP (Silvex)	U		0.068	0.20	µg/L	1	4/1/2013 14:52
2,4-D	U		0.083	0.20	µg/L	1	4/1/2013 14:52
2,4-DB	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dalapon	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dicamba	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dichlorprop	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dinoseb	U		0.050	0.10	µg/L	1	4/1/2013 14:52
MCPA	U		0.10	0.20	µg/L	1	4/1/2013 14:52
MCPP	U		0.10	0.20	µg/L	1	4/1/2013 14:52
Surr: DCAA	*66.0*			*30-150*	*%REC*	1	4/1/2013 14:52
PESTICIDES		Method:	**SW8081**		Prep: SW3510 / 3/29/13		Analyst: **RM**
4,4´-DDD	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
4,4´-DDE	U		0.0025	0.020	µg/L	1	4/1/2013 16:08
4,4´-DDT	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Aldrin	U		0.0054	0.010	µg/L	1	4/1/2013 16:08
alpha-BHC	U		0.0028	0.010	µg/L	1	4/1/2013 16:08
alpha-Chlordane	U		0.0038	0.020	µg/L	1	4/1/2013 16:08
beta-BHC	U		0.0066	0.010	µg/L	1	4/1/2013 16:08
Chlordane, Technical	U		0.022	0.50	µg/L	1	4/1/2013 16:08
delta-BHC	U		0.0026	0.010	µg/L	1	4/1/2013 16:08
Dieldrin	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endosulfan I	U		0.0024	0.020	µg/L	1	4/1/2013 16:08
Endosulfan II	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Endosulfan sulfate	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endrin	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endrin aldehyde	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Endrin ketone	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
gamma-BHC (Lindane)	U		0.0030	0.010	µg/L	1	4/1/2013 16:08
gamma-Chlordane	U		0.0030	0.020	µg/L	1	4/1/2013 16:08
Heptachlor	U		0.0083	0.010	µg/L	1	4/1/2013 16:08
Heptachlor epoxide	U		0.0030	0.010	µg/L	1	4/1/2013 16:08
Methoxychlor	U		0.0030	0.040	µg/L	1	4/1/2013 16:08
Toxaphene	U		0.042	2.0	µg/L	1	4/1/2013 16:08
Surr: Decachlorobiphenyl	*86.0*			*30-145*	*%REC*	1	4/1/2013 16:08
Surr: Tetrachloro-m-xylene	*80.0*			*25-140*	*%REC*	1	4/1/2013 16:08
MERCURY BY CVAA		Method:	**SW7470**		Prep: SW7470 / 3/29/13		Analyst: **LR**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Rinsate Blank
Collection Date: 3/22/2013 06:00 PM

Work Order: 1303834
Lab ID: 1303834-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	U		0.00010	0.00020	mg/L	1	3/29/2013 12:29
METALS BY ICP-MS			Method: **SW6020A**		Prep: SW3005A / 3/27/13		Analyst: **RH**
Arsenic	U		0.00058	0.0050	mg/L	1	3/27/2013 18:58
Barium	**0.0018**	J	**0.000063**	**0.0050**	**mg/L**	1	3/27/2013 18:58
Cadmium	U		0.000045	0.0020	mg/L	1	3/27/2013 18:58
Chromium	**0.0013**	J	**0.00027**	**0.0050**	**mg/L**	1	3/27/2013 18:58
Lead	**0.00024**	J	**0.000051**	**0.0030**	**mg/L**	1	3/27/2013 18:58
Selenium	U		0.00064	0.0050	mg/L	1	3/27/2013 18:58
Silver	U		0.000042	0.00020	mg/L	1	3/27/2013 18:58
DIESEL RANGE ORGANICS BY GC-MS			Method: **SW8270**		Prep: SW3510 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		0.013	0.10	mg/L	1	4/1/2013 08:37
ORO (C21-C35)	U		0.027	0.10	mg/L	1	4/1/2013 08:37
Surr: 4-Terphenyl-d14	*84.7*			*23-112*	*%REC*	1	4/1/2013 08:37
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: **SW8270**		Prep: SW3510 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		0.095	5.0	µg/L	1	3/29/2013 01:38
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	3/29/2013 01:38
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	3/29/2013 01:38
2,4-Dichlorophenol	U		0.22	10	µg/L	1	3/29/2013 01:38
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	3/29/2013 01:38
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	3/29/2013 01:38
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	3/29/2013 01:38
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	3/29/2013 01:38
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	3/29/2013 01:38
2-Chlorophenol	U		0.73	5.0	µg/L	1	3/29/2013 01:38
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	3/29/2013 01:38
2-Methylphenol	U		0.60	5.0	µg/L	1	3/29/2013 01:38
2-Nitroaniline	U		0.11	20	µg/L	1	3/29/2013 01:38
2-Nitrophenol	U		0.19	5.0	µg/L	1	3/29/2013 01:38
3,3´-Dichlorobenzidine	U		0.54	5.0	µg/L	1	3/29/2013 01:38
3-Nitroaniline	U		2.5	20	µg/L	1	3/29/2013 01:38
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	3/29/2013 01:38
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	3/29/2013 01:38
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	3/29/2013 01:38
4-Chloroaniline	U		1.1	20	µg/L	1	3/29/2013 01:38
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	3/29/2013 01:38
4-Methylphenol	U		0.55	5.0	µg/L	1	3/29/2013 01:38
4-Nitroaniline	U		1.5	20	µg/L	1	3/29/2013 01:38
4-Nitrophenol	U		1.6	20	µg/L	1	3/29/2013 01:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Rinsate Blank
Collection Date: 3/22/2013 06:00 PM

Work Order: 1303834
Lab ID: 1303834-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthene	U		0.11	5.0	µg/L	1	3/29/2013 01:38
Acenaphthylene	U		0.12	5.0	µg/L	1	3/29/2013 01:38
Acetophenone	U		0.090	1.0	µg/L	1	3/29/2013 01:38
Anthracene	U		0.72	5.0	µg/L	1	3/29/2013 01:38
Atrazine	U		3.2	10	µg/L	1	3/29/2013 01:38
Benzaldehyde	U		0.46	1.0	µg/L	1	3/29/2013 01:38
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	3/29/2013 01:38
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	3/29/2013 01:38
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	3/29/2013 01:38
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	3/29/2013 01:38
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	3/29/2013 01:38
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	3/29/2013 01:38
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	3/29/2013 01:38
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	3/29/2013 01:38
Bis(2-ethylhexyl)phthalate	**1.8**	J	**0.12**	**5.0**	**µg/L**	1	3/29/2013 01:38
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	3/29/2013 01:38
Caprolactam	U		4.7	10	µg/L	1	3/29/2013 01:38
Carbazole	U		0.84	10	µg/L	1	3/29/2013 01:38
Chrysene	U		0.71	5.0	µg/L	1	3/29/2013 01:38
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	3/29/2013 01:38
Dibenzofuran	U		0.11	5.0	µg/L	1	3/29/2013 01:38
Diethyl phthalate	U		0.69	20	µg/L	1	3/29/2013 01:38
Dimethyl phthalate	U		0.14	20	µg/L	1	3/29/2013 01:38
Di-n-butyl phthalate	U		0.71	5.0	µg/L	1	3/29/2013 01:38
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	3/29/2013 01:38
Fluoranthene	U		0.77	5.0	µg/L	1	3/29/2013 01:38
Fluorene	U		0.10	5.0	µg/L	1	3/29/2013 01:38
Hexachlorobenzene	U		0.10	5.0	µg/L	1	3/29/2013 01:38
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	3/29/2013 01:38
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	3/29/2013 01:38
Hexachloroethane	U		0.13	5.0	µg/L	1	3/29/2013 01:38
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	3/29/2013 01:38
Isophorone	U		0.12	5.0	µg/L	1	3/29/2013 01:38
Naphthalene	U		0.12	5.0	µg/L	1	3/29/2013 01:38
Nitrobenzene	U		0.10	5.0	µg/L	1	3/29/2013 01:38
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	3/29/2013 01:38
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	3/29/2013 01:38
Pentachlorophenol	U		0.11	20	µg/L	1	3/29/2013 01:38
Phenanthrene	U		0.86	5.0	µg/L	1	3/29/2013 01:38
Phenol	U		0.094	5.0	µg/L	1	3/29/2013 01:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Rinsate Blank
Collection Date: 3/22/2013 06:00 PM

Work Order: 1303834
Lab ID: 1303834-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	U		0.65	5.0	µg/L	1	3/29/2013 01:38
Surr: 2,4,6-Tribromophenol	*56.6*			*32-115*	*%REC*	1	3/29/2013 01:38
Surr: 2-Fluorobiphenyl	*64.2*			*32-100*	*%REC*	1	3/29/2013 01:38
Surr: 2-Fluorophenol	*37.4*			*22-59*	*%REC*	1	3/29/2013 01:38
Surr: 4-Terphenyl-d14	*87.8*			*23-112*	*%REC*	1	3/29/2013 01:38
Surr: Nitrobenzene-d5	*64.1*			*31-93*	*%REC*	1	3/29/2013 01:38
Surr: Phenol-d6	*20.7*			*13-36*	*%REC*	1	3/29/2013 01:38
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	3/28/2013 03:56
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	3/28/2013 03:56
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	3/28/2013 03:56
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	3/28/2013 03:56
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	3/28/2013 03:56
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 03:56
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	3/28/2013 03:56
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	3/28/2013 03:56
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	3/28/2013 03:56
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 03:56
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	3/28/2013 03:56
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	3/28/2013 03:56
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	3/28/2013 03:56
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	3/28/2013 03:56
2-Butanone	U		0.22	5.0	µg/L	1	3/28/2013 03:56
2-Hexanone	U		0.12	5.0	µg/L	1	3/28/2013 03:56
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	3/28/2013 03:56
Acetone	U		0.33	20	µg/L	1	3/28/2013 03:56
Benzene	U		0.18	1.0	µg/L	1	3/28/2013 03:56
Bromodichloromethane	U		0.12	1.0	µg/L	1	3/28/2013 03:56
Bromoform	U		0.15	1.0	µg/L	1	3/28/2013 03:56
Bromomethane	U		0.21	1.0	µg/L	1	3/28/2013 03:56
Carbon disulfide	U		0.17	2.5	µg/L	1	3/28/2013 03:56
Carbon tetrachloride	U		0.12	1.0	µg/L	1	3/28/2013 03:56
Chlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 03:56
Chloroethane	U		0.46	1.0	µg/L	1	3/28/2013 03:56
Chloroform	U		0.15	1.0	µg/L	1	3/28/2013 03:56
Chloromethane	U		0.16	1.0	µg/L	1	3/28/2013 03:56
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	3/28/2013 03:56
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	3/28/2013 03:56
Cyclohexane	U		0.22	5.0	µg/L	1	3/28/2013 03:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Rinsate Blank
Collection Date: 3/22/2013 06:00 PM

Work Order: 1303834
Lab ID: 1303834-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.13	1.0	µg/L	1	3/28/2013 03:56
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	3/28/2013 03:56
Ethylbenzene	U		0.13	1.0	µg/L	1	3/28/2013 03:56
GRO (C6-C10)	U		25	100	µg/L	1	3/28/2013 03:56
Isopropylbenzene	U		0.14	1.0	µg/L	1	3/28/2013 03:56
m,p-Xylene	U		0.20	2.0	µg/L	1	3/28/2013 03:56
Methyl acetate	U		0.19	2.0	µg/L	1	3/28/2013 03:56
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	3/28/2013 03:56
Methylcyclohexane	U		0.99	5.0	µg/L	1	3/28/2013 03:56
Methylene chloride	U		0.19	5.0	µg/L	1	3/28/2013 03:56
o-Xylene	U		0.086	1.0	µg/L	1	3/28/2013 03:56
Styrene	U		0.11	1.0	µg/L	1	3/28/2013 03:56
Tetrachloroethene	U		0.15	2.0	µg/L	1	3/28/2013 03:56
Toluene	**1.1**		**0.12**	**1.0**	**µg/L**	1	3/28/2013 03:56
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 03:56
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	3/28/2013 03:56
Trichloroethene	U		0.14	1.0	µg/L	1	3/28/2013 03:56
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	3/28/2013 03:56
Vinyl chloride	U		0.17	1.0	µg/L	1	3/28/2013 03:56
Xylenes, Total	U		0.29	3.0	µg/L	1	3/28/2013 03:56
Surr: 1,2-Dichloroethane-d4	*94.8*			*70-120*	*%REC*	1	3/28/2013 03:56
Surr: 4-Bromofluorobenzene	*100*			*75-120*	*%REC*	1	3/28/2013 03:56
Surr: Dibromofluoromethane	*79.3*	S		*85-115*	*%REC*	1	3/28/2013 03:56
Surr: Toluene-d8	*96.6*			*85-120*	*%REC*	1	3/28/2013 03:56
Surr: Toluene-d8	*86.8*			*85-120*	*%REC*	1	3/28/2013 03:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Trip Blank - Soil
Collection Date: 3/22/2013

Work Order: 1303834
Lab ID: 1303834-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.0	µg/Kg	1	3/27/2013 14:07
1,1,2,2-Tetrachloroethane	U		0.14	5.0	µg/Kg	1	3/27/2013 14:07
1,1,2-Trichloroethane	U		0.19	5.0	µg/Kg	1	3/27/2013 14:07
1,1,2-Trichlorotrifluoroethane	U		0.28	5.0	µg/Kg	1	3/27/2013 14:07
1,1-Dichloroethane	U		0.26	5.0	µg/Kg	1	3/27/2013 14:07
1,1-Dichloroethene	U		0.23	5.0	µg/Kg	1	3/27/2013 14:07
1,2,4-Trichlorobenzene	U		0.21	5.0	µg/Kg	1	3/27/2013 14:07
1,2-Dibromo-3-chloropropane	U		0.20	5.0	µg/Kg	1	3/27/2013 14:07
1,2-Dibromoethane	U		0.20	5.0	µg/Kg	1	3/27/2013 14:07
1,2-Dichlorobenzene	U		0.20	5.0	µg/Kg	1	3/27/2013 14:07
1,2-Dichloroethane	U		0.28	5.0	µg/Kg	1	3/27/2013 14:07
1,2-Dichloropropane	U		0.26	5.0	µg/Kg	1	3/27/2013 14:07
1,3-Dichlorobenzene	U		0.19	5.0	µg/Kg	1	3/27/2013 14:07
1,4-Dichlorobenzene	U		0.21	5.0	µg/Kg	1	3/27/2013 14:07
2-Butanone	U		0.77	10	µg/Kg	1	3/27/2013 14:07
2-Hexanone	U		0.30	5.0	µg/Kg	1	3/27/2013 14:07
4-Methyl-2-pentanone	U		0.20	5.0	µg/Kg	1	3/27/2013 14:07
Acetone	U		0.94	10	µg/Kg	1	3/27/2013 14:07
Benzene	U		0.25	5.0	µg/Kg	1	3/27/2013 14:07
Bromodichloromethane	U		0.21	5.0	µg/Kg	1	3/27/2013 14:07
Bromoform	U		0.15	5.0	µg/Kg	1	3/27/2013 14:07
Bromomethane	U		0.35	10	µg/Kg	1	3/27/2013 14:07
Carbon disulfide	U		0.37	5.0	µg/Kg	1	3/27/2013 14:07
Carbon tetrachloride	U		0.20	5.0	µg/Kg	1	3/27/2013 14:07
Chlorobenzene	U		0.22	5.0	µg/Kg	1	3/27/2013 14:07
Chloroethane	U		0.56	5.0	µg/Kg	1	3/27/2013 14:07
Chloroform	**0.53**	J	**0.26**	**5.0**	**µg/Kg**	1	3/27/2013 14:07
Chloromethane	U		0.31	10	µg/Kg	1	3/27/2013 14:07
cis-1,2-Dichloroethene	U		0.30	5.0	µg/Kg	1	3/27/2013 14:07
cis-1,3-Dichloropropene	U		0.18	5.0	µg/Kg	1	3/27/2013 14:07
Cyclohexane	U		0.32	5.0	µg/Kg	1	3/27/2013 14:07
Dibromochloromethane	U		0.17	5.0	µg/Kg	1	3/27/2013 14:07
Dichlorodifluoromethane	U		0.33	10	µg/Kg	1	3/27/2013 14:07
Ethylbenzene	U		0.19	5.0	µg/Kg	1	3/27/2013 14:07
Isopropylbenzene	U		0.19	5.0	µg/Kg	1	3/27/2013 14:07
m,p-Xylene	U		0.38	2.5	µg/Kg	1	3/27/2013 14:07
Methyl acetate	U		0.80	10	µg/Kg	1	3/27/2013 14:07
Methyl tert-butyl ether	U		0.25	5.0	µg/Kg	1	3/27/2013 14:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Trip Blank - Soil
Collection Date: 3/22/2013

Work Order: 1303834
Lab ID: 1303834-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.28	10	µg/Kg	1	3/27/2013 14:07
Methylene chloride	**1.0**	J	**0.28**	**5.0**	**µg/Kg**	1	3/27/2013 14:07
o-Xylene	U		0.20	2.5	µg/Kg	1	3/27/2013 14:07
Styrene	U		0.18	5.0	µg/Kg	1	3/27/2013 14:07
Tetrachloroethene	U		0.30	5.0	µg/Kg	1	3/27/2013 14:07
Toluene	U		0.24	5.0	µg/Kg	1	3/27/2013 14:07
trans-1,2-Dichloroethene	U		0.29	5.0	µg/Kg	1	3/27/2013 14:07
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg	1	3/27/2013 14:07
Trichloroethene	U		0.23	5.0	µg/Kg	1	3/27/2013 14:07
Trichlorofluoromethane	U		1.2	5.0	µg/Kg	1	3/27/2013 14:07
Vinyl chloride	U		0.30	5.0	µg/Kg	1	3/27/2013 14:07
Xylenes, Total	U		0.58	5.0	µg/Kg	1	3/27/2013 14:07
Surr: 1,2-Dichloroethane-d4	*114*			*70-120*	*%REC*	1	3/27/2013 14:07
Surr: 4-Bromofluorobenzene	*112*			*75-120*	*%REC*	1	3/27/2013 14:07
Surr: Dibromofluoromethane	*108*			*85-115*	*%REC*	1	3/27/2013 14:07
Surr: Toluene-d8	*104*			*85-120*	*%REC*	1	3/27/2013 14:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Trip Blank - Water
Collection Date: 3/22/2013

Work Order: 1303834
Lab ID: 1303834-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260**					Analyst: **AK**
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	3/28/2013 03:33
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	3/28/2013 03:33
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	3/28/2013 03:33
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	3/28/2013 03:33
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	3/28/2013 03:33
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 03:33
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	3/28/2013 03:33
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	3/28/2013 03:33
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	3/28/2013 03:33
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 03:33
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	3/28/2013 03:33
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	3/28/2013 03:33
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	3/28/2013 03:33
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	3/28/2013 03:33
2-Butanone	U		0.22	5.0	µg/L	1	3/28/2013 03:33
2-Hexanone	U		0.12	5.0	µg/L	1	3/28/2013 03:33
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	3/28/2013 03:33
Acetone	U		0.33	20	µg/L	1	3/28/2013 03:33
Benzene	U		0.18	1.0	µg/L	1	3/28/2013 03:33
Bromodichloromethane	U		0.12	1.0	µg/L	1	3/28/2013 03:33
Bromoform	U		0.15	1.0	µg/L	1	3/28/2013 03:33
Bromomethane	U		0.21	1.0	µg/L	1	3/28/2013 03:33
Carbon disulfide	U		0.17	2.5	µg/L	1	3/28/2013 03:33
Carbon tetrachloride	U		0.12	1.0	µg/L	1	3/28/2013 03:33
Chlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 03:33
Chloroethane	U		0.46	1.0	µg/L	1	3/28/2013 03:33
Chloroform	U		0.15	1.0	µg/L	1	3/28/2013 03:33
Chloromethane	U		0.16	1.0	µg/L	1	3/28/2013 03:33
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	3/28/2013 03:33
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	3/28/2013 03:33
Cyclohexane	U		0.22	5.0	µg/L	1	3/28/2013 03:33
Dibromochloromethane	U		0.13	1.0	µg/L	1	3/28/2013 03:33
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	3/28/2013 03:33
Ethylbenzene	U		0.13	1.0	µg/L	1	3/28/2013 03:33
GRO (C6-C10)	U		25	100	µg/L	1	3/28/2013 03:33
Isopropylbenzene	U		0.14	1.0	µg/L	1	3/28/2013 03:33
m,p-Xylene	U		0.20	2.0	µg/L	1	3/28/2013 03:33
Methyl acetate	U		0.19	2.0	µg/L	1	3/28/2013 03:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms-MCI 3/22/13
Sample ID: Trip Blank - Water
Collection Date: 3/22/2013

Work Order: 1303834
Lab ID: 1303834-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	3/28/2013 03:33
Methylcyclohexane	U		0.99	5.0	µg/L	1	3/28/2013 03:33
Methylene chloride	U		0.19	5.0	µg/L	1	3/28/2013 03:33
o-Xylene	U		0.086	1.0	µg/L	1	3/28/2013 03:33
Styrene	U		0.11	1.0	µg/L	1	3/28/2013 03:33
Tetrachloroethene	U		0.15	2.0	µg/L	1	3/28/2013 03:33
Toluene	U		0.12	1.0	µg/L	1	3/28/2013 03:33
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 03:33
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	3/28/2013 03:33
Trichloroethene	U		0.14	1.0	µg/L	1	3/28/2013 03:33
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	3/28/2013 03:33
Vinyl chloride	U		0.17	1.0	µg/L	1	3/28/2013 03:33
Xylenes, Total	U		0.29	3.0	µg/L	1	3/28/2013 03:33
Surr: 1,2-Dichloroethane-d4	*98.9*			*70-120*	*%REC*	1	3/28/2013 03:33
Surr: 4-Bromofluorobenzene	*102*			*75-120*	*%REC*	1	3/28/2013 03:33
Surr: Dibromofluoromethane	*95.0*			*85-115*	*%REC*	1	3/28/2013 03:33
Surr: Toluene-d8	*87.6*			*85-120*	*%REC*	1	3/28/2013 03:33
Surr: Toluene-d8	*97.2*			*85-120*	*%REC*	1	3/28/2013 03:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 17-Apr-13

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47245** Instrument ID **GC7** Method: **SW8151**

MBLK Sample ID: **HBLKW1-47245-47245** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**

Client ID: Run ID: **GC7_130401A** SeqNo: **2257725** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	U	5.0								
2,4,5-TP (Silvex)	U	10								
2,4-D	U	10								
2,4-DB	U	5.0								
Dalapon	U	5.0								
Dicamba	U	5.0								
Dichlorprop	U	5.0								
Dinoseb	U	5.0								
MCPA	U	10								
MCPP	U	10								
Surr: DCAA	*209.5*	0	*200*	0	*105*	*30-150*		0		

LCS Sample ID: **HLCSW1-47245-47245** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**

Client ID: Run ID: **GC7_130401A** SeqNo: **2257726** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	198.5	5.0	200	0	99.2	50-150		0		
2,4,5-TP (Silvex)	236	10	200	0	118	50-150		0		
2,4-D	232	10	200	0	116	50-150		0		
2,4-DB	251	5.0	200	0	126	30-150		0		
Dalapon	141.5	5.0	200	0	70.8	50-150		0		
Dicamba	175	5.0	200	0	87.5	50-150		0		
Dichlorprop	232	5.0	200	0	116	50-150		0		
Dinoseb	133.5	5.0	200	0	66.8	50-150		0		
MCPA	21480	10	20000	0	107	50-150		0		
MCPP	24120	10	20000	0	121	50-150		0		
Surr: DCAA	*253.5*	0	*200*	0	*127*	*30-150*		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47245** Instrument ID **GC7** Method: **SW8151**

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**

Client ID: **Rinsate Blank** Run ID: **GC7_130401A** SeqNo: **2257722** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	3.3	0.10	5	0	66	50-150	0			
2,4,5-TP (Silvex)	4.51	0.20	5	0	90.2	50-150	0			
2,4-D	3.44	0.20	5	0	68.8	50-150	0			
2,4-DB	4.88	0.10	5	0	97.6	30-150	0			
Dalapon	0.5	0.10	5	0	10	50-150	0			S
Dicamba	3.09	0.10	5	0	61.8	50-150	0			
Dichlorprop	4.45	0.10	5	0	89	50-150	0			
Dinoseb	4.36	0.10	5	0	87.2	50-150	0			
MCPA	500	0.20	500	0	100	50-150	0			
MCPP	415.8	0.20	500	0	83.2	50-150	0			
Surr: DCAA	*4.87*	0	*5*	0	*97.4*	*30-150*	0			

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**

Client ID: **Rinsate Blank** Run ID: **GC7_130401A** SeqNo: **2257723** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	3.86	0.10	5	0	77.2	50-150	3.3	15.6	30	
2,4,5-TP (Silvex)	4.83	0.20	5	0	96.6	50-150	4.51	6.85	30	
2,4-D	3.89	0.20	5	0	77.8	50-150	3.44	12.3	30	
2,4-DB	4.97	0.10	5	0	99.4	30-150	4.88	1.83	30	
Dalapon	0.63	0.10	5	0	12.6	50-150	0.5	23	30	S
Dicamba	3.19	0.10	5	0	63.8	50-150	3.09	3.18	30	
Dichlorprop	5.23	0.10	5	0	105	50-150	4.45	16.1	30	
Dinoseb	4.36	0.10	5	0	87.2	50-150	4.36	0	30	
MCPA	432.3	0.20	500	0	86.5	50-150	500	14.5	30	
MCPP	520.5	0.20	500	0	104	50-150	415.8	22.4	30	
Surr: DCAA	*4.95*	0	*5*	0	*99*	*30-150*	4.87	*1.63*	*30*	

The following samples were analyzed in this batch: 1303834-11B 1303834-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

MBLK Sample ID: **PBLKW1-47280-47280** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**

Client ID: Run ID: **GC12_130401C** SeqNo: **2257607** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	0.020								
4,4´-DDE	U	0.020								
4,4´-DDT	U	0.020								
Aldrin	U	0.010								
alpha-BHC	U	0.010								
alpha-Chlordane	U	0.020								
beta-BHC	U	0.010								
Chlordane, Technical	U	0.50								
delta-BHC	U	0.010								
Dieldrin	U	0.020								
Endosulfan I	U	0.020								
Endosulfan II	U	0.020								
Endosulfan sulfate	U	0.020								
Endrin	U	0.020								
Endrin aldehyde	U	0.020								
Endrin ketone	U	0.020								
gamma-BHC (Lindane)	U	0.010								
gamma-Chlordane	U	0.020								
Heptachlor	U	0.010								
Heptachlor epoxide	U	0.010								
Methoxychlor	U	0.040								
Toxaphene	U	2.0								
Surr: Decachlorobiphenyl	*0.079*	0	*0.1*	0	*79*	*30-135*	0			
Surr: Tetrachloro-m-xylene	*0.089*	0	*0.1*	0	*89*	*25-140*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

LCS Sample ID: **PLCSW1-47280-47280** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**

Client ID: Run ID: **GC12_130401C** SeqNo: **2257608** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.073	0.020	0.1	0	73	25-150	0			
4,4´-DDE	0.072	0.020	0.1	0	72	35-140	0			
4,4´-DDT	0.102	0.020	0.1	0	102	45-140	0			
Aldrin	0.061	0.010	0.1	0	61	25-140	0			
alpha-BHC	0.069	0.010	0.1	0	69	60-130	0			
alpha-Chlordane	0.07	0.020	0.1	0	70	50-150	0			
beta-BHC	0.073	0.010	0.1	0	73	65-125	0			
delta-BHC	0.085	0.010	0.1	0	85	45-135	0			
Dieldrin	0.072	0.020	0.1	0	72	60-130	0			
Endosulfan I	0.062	0.020	0.1	0	62	50-110	0			
Endosulfan II	0.077	0.020	0.1	0	77	30-130	0			
Endosulfan sulfate	0.087	0.020	0.1	0	87	55-135	0			
Endrin	0.077	0.020	0.1	0	77	55-135	0			
Endrin aldehyde	0.073	0.020	0.1	0	73	55-135	0			
Endrin ketone	0.08	0.020	0.1	0	80	50-150	0			
gamma-BHC (Lindane)	0.081	0.010	0.1	0	81	25-135	0			
gamma-Chlordane	0.072	0.020	0.1	0	72	50-150	0			
Heptachlor	0.079	0.010	0.1	0	79	40-130	0			
Heptachlor epoxide	0.075	0.010	0.1	0	75	60-130	0			
Methoxychlor	0.118	0.040	0.1	0	118	55-150	0			
Surr: Decachlorobiphenyl	*0.082*	0	*0.1*	0	*82*	*30-135*	0			
Surr: Tetrachloro-m-xylene	*0.059*	0	*0.1*	0	*59*	*25-140*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**

Client ID: **Rinsate Blank** Run ID: **GC12_130401C** SeqNo: **2257603** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.76	0.20	1	0	76	25-150	0			
4,4´-DDE	0.74	0.20	1	0	74	35-140	0			
4,4´-DDT	1.04	0.20	1	0	104	45-140	0			
Aldrin	0.62	0.10	1	0	62	25-140	0			
alpha-BHC	0.75	0.10	1	0	75	60-130	0			
alpha-Chlordane	0.7	0.20	1	0	70	50-150	0			
beta-BHC	0.76	0.10	1	0	76	65-125	0			
delta-BHC	0.87	0.10	1	0	87	45-135	0			
Dieldrin	0.71	0.20	1	0	71	60-130	0			
Endosulfan I	0.58	0.20	1	0	58	50-110	0			
Endosulfan II	0.76	0.20	1	0	76	30-130	0			
Endosulfan sulfate	0.76	0.20	1	0	76	55-135	0			
Endrin	0.78	0.20	1	0	78	55-135	0			
Endrin aldehyde	0.74	0.20	1	0	74	55-135	0			
Endrin ketone	0.75	0.20	1	0	75	55-135	0			
gamma-BHC (Lindane)	0.86	0.10	1	0	86	25-135	0			
gamma-Chlordane	0.72	0.20	1	0	72	55-135	0			
Heptachlor	0.82	0.10	1	0	82	40-130	0			
Heptachlor epoxide	0.76	0.10	1	0	76	60-130	0			
Methoxychlor	1.17	0.40	1	0	117	55-150	0			
Surr: Decachlorobiphenyl	*0.82*	0	*1*	0	*82*	*30-135*	0			
Surr: Tetrachloro-m-xylene	*0.63*	0	*1*	0	*63*	*25-140*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**

Client ID: **Rinsate Blank** Run ID: **GC12_130401C** SeqNo: **2257604** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.74	0.20	1	0	74	25-150	0.76	2.67	50	
4,4´-DDE	0.75	0.20	1	0	75	35-140	0.74	1.34	50	
4,4´-DDT	1.02	0.20	1	0	102	45-140	1.04	1.94	50	
Aldrin	0.61	0.10	1	0	61	25-140	0.62	1.63	50	
alpha-BHC	0.73	0.10	1	0	73	60-130	0.75	2.7	50	
alpha-Chlordane	0.71	0.20	1	0	71	50-150	0.7	1.42	50	
beta-BHC	0.74	0.10	1	0	74	65-125	0.76	2.67	50	
delta-BHC	0.87	0.10	1	0	87	45-135	0.87	0	50	
Dieldrin	0.73	0.20	1	0	73	60-130	0.71	2.78	50	
Endosulfan I	0.6	0.20	1	0	60	50-110	0.58	3.39	50	
Endosulfan II	0.76	0.20	1	0	76	30-130	0.76	0	50	
Endosulfan sulfate	0.85	0.20	1	0	85	55-135	0.76	11.2	50	
Endrin	0.79	0.20	1	0	79	55-135	0.78	1.27	50	
Endrin aldehyde	0.77	0.20	1	0	77	55-135	0.74	3.97	50	
Endrin ketone	0.79	0.20	1	0	79	55-135	0.75	5.19	50	
gamma-BHC (Lindane)	0.84	0.10	1	0	84	25-135	0.86	2.35	50	
gamma-Chlordane	0.72	0.20	1	0	72	55-135	0.72	0	50	
Heptachlor	0.8	0.10	1	0	80	40-130	0.82	2.47	50	
Heptachlor epoxide	0.76	0.10	1	0	76	60-130	0.76	0	50	
Methoxychlor	1.15	0.40	1	0	115	55-150	1.17	1.72	50	
Surr: Decachlorobiphenyl	*0.82*	0	*1*	0	*82*	*30-135*	0.82	*0*	*50*	
Surr: Tetrachloro-m-xylene	*0.67*	0	*1*	0	*67*	*25-140*	0.63	*6.15*	*50*	

The following samples were analyzed in this batch: 1303834-11B 1303834-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47233** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-47233-47233** Units: **mg/Kg** Analysis Date: **3/28/2013 04:14 PM**
Client ID: Run ID: **HG1_130328A** SeqNo: **2253078** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-47233-47233** Units: **mg/Kg** Analysis Date: **3/28/2013 04:16 PM**
Client ID: Run ID: **HG1_130328A** SeqNo: **2253079** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1877	0.020	0.1665	0	113	80-120	0			

MS Sample ID: **1303825-07BMS** Units: **mg/Kg** Analysis Date: **3/28/2013 04:45 PM**
Client ID: Run ID: **HG1_130328A** SeqNo: **2253093** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.161	0.016	0.1368	0.01995	103	75-125	0			

MSD Sample ID: **1303825-07BMSD** Units: **mg/Kg** Analysis Date: **3/28/2013 04:47 PM**
Client ID: Run ID: **HG1_130328A** SeqNo: **2253094** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1519	0.015	0.126	0.01995	105	75-125	0.161	5.84	35	

The following samples were analyzed in this batch:

1303834-01B	1303834-02B	1303834-03B
1303834-04B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47291** Instrument ID **HG1** Method: **SW7470**

MBLK Sample ID: **MBLK-47291-47291** Units: **mg/L** Analysis Date: **3/29/2013 12:21 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254055** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID: **LCS-47291-47291** Units: **mg/L** Analysis Date: **3/29/2013 12:23 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254056** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002005	0.00020	0.002	0	100	80-120	0			

MS Sample ID: **1303876-01CMS** Units: **mg/L** Analysis Date: **3/29/2013 12:39 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254065** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001842	0.00020	0.002	0.000022	91	75-125	0			

MS Sample ID: **1303876-01DMS** Units: **mg/L** Analysis Date: **3/29/2013 12:58 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254071** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00179	0.00020	0.002	0.000006	89.2	75-125	0			

MSD Sample ID: **1303876-01CMSD** Units: **mg/L** Analysis Date: **3/29/2013 12:54 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254069** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001853	0.00020	0.002	0.000022	91.6	75-125	0.001842	0.595	20	

MSD Sample ID: **1303876-01DMSD** Units: **mg/L** Analysis Date: **3/29/2013 01:00 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254072** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001822	0.00020	0.002	0.000006	90.8	75-125	0.00179	1.77	20	

The following samples were analyzed in this batch: 1303834-11C 1303834-12C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47292** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-47292-47292** Units: **mg/Kg** Analysis Date: **3/29/2013 01:20 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254183** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-47292-47292** Units: **mg/Kg** Analysis Date: **3/29/2013 02:16 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254337** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1839	0.020	0.1665	0	110	80-120	0			

MS Sample ID: **1303900-01AMS** Units: **mg/Kg** Analysis Date: **3/29/2013 01:27 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254208** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1588	0.016	0.1372	0.01465	105	75-125	0			

MSD Sample ID: **1303900-01AMSD** Units: **mg/Kg** Analysis Date: **3/29/2013 01:29 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254209** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1458	0.015	0.1282	0.01465	102	75-125	0.1588	8.51	35	

The following samples were analyzed in this batch:

1303834-06B	1303834-07B	1303834-08B
1303834-09B	1303834-10B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47221** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK Sample ID: **MBLK-47221-47221** Units: **mg/L** Analysis Date: **3/27/2013 06:37 PM**
Client ID: Run ID: **ICPMS2_130327A** SeqNo: **2251956** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	0.0006657	0.0050								J
Silver	U	0.0050								

LCS Sample ID: **LCS-47221-47221** Units: **mg/L** Analysis Date: **3/27/2013 06:42 PM**
Client ID: Run ID: **ICPMS2_130327A** SeqNo: **2251957** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09669	0.0050	0.1	0	96.7	80-120	0			
Barium	0.09859	0.0050	0.1	0	98.6	80-120	0			
Cadmium	0.09803	0.0020	0.1	0	98	80-120	0			
Chromium	0.09331	0.0050	0.1	0	93.3	80-120	0			
Lead	0.09624	0.0050	0.1	0	96.2	80-120	0			
Selenium	0.09729	0.0050	0.1	0	97.3	80-120	0			
Silver	0.09011	0.0050	0.1	0	90.1	80-120	0			

MS Sample ID: **1303844-07BMS** Units: **mg/L** Analysis Date: **3/27/2013 08:53 PM**
Client ID: Run ID: **ICPMS2_130327A** SeqNo: **2251991** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09768	0.0050	0.1	0.001818	95.9	75-125	0			
Barium	0.3159	0.0050	0.1	0.2195	96.4	75-125	0			
Cadmium	0.09034	0.0020	0.1	0.00006047	90.3	75-125	0			
Chromium	0.09135	0.0050	0.1	0.002065	89.3	75-125	0			
Lead	0.1072	0.0050	0.1	0.01147	95.7	75-125	0			
Selenium	0.09291	0.0050	0.1	0.001017	91.9	75-125	0			
Silver	0.07713	0.0050	0.1	0.00001714	77.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47221** Instrument ID **ICPMS2** Method: **SW6020A**

MSD Sample ID: **1303844-07BMSD** Units: **mg/L** Analysis Date: **3/27/2013 08:58 PM**

Client ID: Run ID: **ICPMS2_130327A** SeqNo: **2251992** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09798	0.0050	0.1	0.001818	96.2	75-125	0.09768	0.307	20	
Barium	0.3194	0.0050	0.1	0.2195	99.9	75-125	0.3159	1.1	20	
Cadmium	0.09208	0.0020	0.1	0.00006047	92	75-125	0.09034	1.91	20	
Chromium	0.09229	0.0050	0.1	0.002065	90.2	75-125	0.09135	1.02	20	
Lead	0.1071	0.0050	0.1	0.01147	95.6	75-125	0.1072	0.0933	20	
Selenium	0.09495	0.0050	0.1	0.001017	93.9	75-125	0.09291	2.17	20	
Silver	0.07773	0.0050	0.1	0.00001714	77.7	75-125	0.07713	0.775	20	

The following samples were analyzed in this batch: 1303834-11C 1303834-12C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47224** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-47224-47224** Units: **mg/Kg** Analysis Date: **3/29/2013 01:13 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2254251** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	0.00875	0.25								J
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	0.04352	0.25								J
Silver	U	0.25								

LCS Sample ID: **LCS-47224-47224** Units: **mg/Kg** Analysis Date: **3/29/2013 01:20 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2254253** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.59	0.25	5	0	91.8	80-120	0			
Barium	4.645	0.25	5	0	92.9	80-120	0			
Cadmium	4.628	0.10	5	0	92.6	80-120	0			
Chromium	4.7	0.25	5	0	94	80-120	0			
Lead	4.866	0.25	5	0	97.3	80-120	0			
Selenium	4.483	0.25	5	0	89.7	80-120	0			
Silver	4.595	0.25	5	0	91.9	80-120	0			

MS Sample ID: **1303825-07BMS** Units: **mg/Kg** Analysis Date: **3/29/2013 01:31 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2254255** Prep Date: **3/27/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.27	0.71	7.112	7.235	84.9	75-125	0			
Barium	229	0.71	7.112	222.4	92.7	75-125	0			O
Cadmium	6.464	0.28	7.112	0.3378	86.1	75-125	0			
Chromium	22.05	0.71	7.112	13.9	115	75-125	0			
Lead	16.94	0.71	7.112	10.27	93.8	75-125	0			
Selenium	6.427	0.71	7.112	0.6352	81.4	75-125	0			
Silver	5.59	0.71	7.112	0.04676	77.9	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47224** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1303825-07BMSD** Units: **mg/Kg** Analysis Date: **3/29/2013 01:37 PM**

Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2255954** Prep Date: **3/27/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.7	0.71	7.133	7.235	90.6	75-125	13.27	3.19	25	
Barium	235.4	0.71	7.133	222.4	182	75-125	229	2.74	25	SO
Cadmium	6.703	0.29	7.133	0.3378	89.2	75-125	6.464	3.64	25	
Chromium	22.67	0.71	7.133	13.9	123	75-125	22.05	2.77	25	
Lead	17.26	0.71	7.133	10.27	98	75-125	16.94	1.87	25	
Selenium	6.485	0.71	7.133	0.6352	82	75-125	6.427	0.903	25	
Silver	5.679	0.71	7.133	0.04676	79	75-125	5.59	1.57	25	

The following samples were analyzed in this batch:

1303834-01B	1303834-02B	1303834-03B
1303834-04B	1303834-06B	1303834-07B
1303834-08B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47263** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-47263-47263** Units: **mg/Kg** Analysis Date: **3/28/2013 07:52 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253552** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	0.002356	0.10								J
Chromium	U	0.25								
Lead	0.004447	0.25								J
Selenium	U	0.25								
Silver	U	0.25								

LCS Sample ID: **LCS-47263-47263** Units: **mg/Kg** Analysis Date: **3/28/2013 07:58 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253553** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.66	0.25	5	0	93.2	80-120	0			
Barium	4.629	0.25	5	0	92.6	80-120	0			
Cadmium	4.554	0.10	5	0	91.1	80-120	0			
Chromium	4.732	0.25	5	0	94.6	80-120	0			
Lead	4.777	0.25	5	0	95.5	80-120	0			
Selenium	4.338	0.25	5	0	86.8	80-120	0			
Silver	4.578	0.25	5	0	91.6	80-120	0			

MS Sample ID: **1303887-05AMS** Units: **mg/Kg** Analysis Date: **3/28/2013 08:09 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253555** Prep Date: **3/28/2013** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.49	1.6	7.911	11.86	71.2	75-125	0			S
Barium	130.2	1.6	7.911	118.5	147	75-125	0			SO
Cadmium	8.924	0.63	7.911	1.399	95.1	75-125	0			
Chromium	94.3	1.6	7.911	86.06	104	75-125	0			O
Lead	83.92	1.6	7.911	80.48	43.5	75-125	0			SO
Selenium	8.408	1.6	7.911	1.017	93.4	75-125	0			
Silver	8.193	1.6	7.911	1.016	90.7	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47263** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1303887-05AMSD** Units: **mg/Kg** Analysis Date: **3/28/2013 08:15 PM**

Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253556** Prep Date: **3/28/2013** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	21	1.6	7.874	11.86	116	75-125	17.49	18.3	25	
Barium	142.5	1.6	7.874	118.5	304	75-125	130.2	9.02	25	SO
Cadmium	9.446	0.63	7.874	1.399	102	75-125	8.924	5.68	25	
Chromium	92	1.6	7.874	86.06	75.4	75-125	94.3	2.47	25	O
Lead	85.92	1.6	7.874	80.48	69	75-125	83.92	2.35	25	SO
Selenium	8.923	1.6	7.874	1.017	100	75-125	8.408	5.94	25	
Silver	8.608	1.6	7.874	1.016	96.4	75-125	8.193	4.94	25	

The following samples were analyzed in this batch: 1303834-09B 1303834-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **SBLKS1-47241-47241** Units: **µg/Kg** Analysis Date: **4/1/2013 01:58 AM**

Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258584** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	330								
2,4,5-Trichlorophenol	U	160								
2,4,6-Trichlorophenol	U	160								
2,4-Dichlorophenol	U	160								
2,4-Dimethylphenol	U	330								
2,4-Dinitrophenol	U	660								
2,4-Dinitrotoluene	U	160								
2,6-Dinitrotoluene	U	160								
2-Chloronaphthalene	U	80								
2-Chlorophenol	U	160								
2-Methylnaphthalene	U	80								
2-Methylphenol	U	160								
2-Nitroaniline	U	660								
2-Nitrophenol	U	160								
3,3´-Dichlorobenzidine	U	660								
3-Nitroaniline	U	660								
4,6-Dinitro-2-methylphenol	U	330								
4-Bromophenyl phenyl ether	U	160								
4-Chloro-3-methylphenol	U	160								
4-Chloroaniline	U	660								
4-Chlorophenyl phenyl ether	U	160								
4-Methylphenol	U	160								
4-Nitroaniline	U	660								
4-Nitrophenol	U	660								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Acetophenone	U	330								
Anthracene	U	30								
Atrazine	U	330								
Benzaldehyde	U	330								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Bis(2-chloroethoxy)methane	U	160								
Bis(2-chloroethyl)ether	U	160								
Bis(2-chloroisopropyl)ether	U	160								
Bis(2-ethylhexyl)phthalate	U	330								
Butyl benzyl phthalate	U	160								
Caprolactam	U	330								
Carbazole	U	160								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Chrysene	U	30					
Dibenzo(a,h)anthracene	U	30					
Dibenzofuran	U	160					
Diethyl phthalate	U	330					
Dimethyl phthalate	U	330					
Di-n-butyl phthalate	U	330					
Di-n-octyl phthalate	U	160					
Fluoranthene	U	30					
Fluorene	U	30					
Hexachlorobenzene	U	160					
Hexachlorobutadiene	U	160					
Hexachlorocyclopentadiene	U	330					
Hexachloroethane	U	160					
Indeno(1,2,3-cd)pyrene	U	30					
Isophorone	U	160					
Naphthalene	U	30					
Nitrobenzene	U	160					
N-Nitrosodi-n-propylamine	U	160					
N-Nitrosodiphenylamine	U	160					
Pentachlorophenol	U	330					
Phenanthrene	U	30					
Phenol	U	160					
Pyrene	U	30					
Surr: 2,4,6-Tribromophenol	*1134*	0	*1667*	0	*68*	*34-140*	0
Surr: 2-Fluorobiphenyl	*1361*	0	*1667*	0	*81.7*	*12-100*	0
Surr: 2-Fluorophenol	*1485*	0	*1667*	0	*89.1*	*33-117*	0
Surr: 4-Terphenyl-d14	*1723*	0	*1667*	0	*103*	*25-137*	0
Surr: Nitrobenzene-d5	*1457*	0	*1667*	0	*87.4*	*37-107*	0
Surr: Phenol-d6	*1517*	0	*1667*	0	*91*	*40-106*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

LCS Sample ID: **SLCSS1-47241-47241** Units: **µg/Kg** Analysis Date: **4/1/2013 02:28 AM**

Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258585** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	536.3	160	666.7	0	80.4	50-110	0			
2,4,6-Trichlorophenol	523	160	666.7	0	78.4	45-110	0			
2,4-Dichlorophenol	580.7	160	666.7	0	87.1	45-110	0			
2,4-Dimethylphenol	408.3	330	666.7	0	61.2	30-105	0			
2,4-Dinitrophenol	479	660	666.7	0	71.8	15-130	0			J
2,4-Dinitrotoluene	601.3	160	666.7	0	90.2	50-115	0			
2,6-Dinitrotoluene	584.7	160	666.7	0	87.7	50-110	0			
2-Chloronaphthalene	575	80	666.7	0	86.2	45-105	0			
2-Chlorophenol	589.3	160	666.7	0	88.4	45-105	0			
2-Methylnaphthalene	596	80	666.7	0	89.4	45-105	0			
2-Methylphenol	574.3	160	666.7	0	86.1	40-105	0			
2-Nitroaniline	608	660	666.7	0	91.2	45-120	0			J
2-Nitrophenol	579.7	160	666.7	0	86.9	40-110	0			
3-Nitroaniline	607.7	660	666.7	0	91.1	25-150	0			J
4-Bromophenyl phenyl ether	573.7	160	666.7	0	86	45-115	0			
4-Chloro-3-methylphenol	589.3	160	666.7	0	88.4	45-115	0			
4-Chloroaniline	371.3	660	666.7	0	55.7	15-110	0			J
4-Chlorophenyl phenyl ether	630.3	160	666.7	0	94.5	45-110	0			
4-Methylphenol	595.3	160	666.7	0	89.3	40-105	0			
4-Nitroaniline	462.3	660	666.7	0	69.3	35-150	0			J
4-Nitrophenol	644.3	660	666.7	0	96.6	15-140	0			J
Acenaphthene	559.7	30	666.7	0	83.9	45-110	0			
Acenaphthylene	576	30	666.7	0	86.4	45-105	0			
Anthracene	596	30	666.7	0	89.4	55-105	0			
Benzo(a)anthracene	603.7	30	666.7	0	90.5	50-110	0			
Benzo(a)pyrene	640	30	666.7	0	96	50-110	0			
Benzo(b)fluoranthene	622.3	30	666.7	0	93.3	45-115	0			
Benzo(g,h,i)perylene	648.3	30	666.7	0	97.2	40-125	0			
Benzo(k)fluoranthene	679	30	666.7	0	102	45-115	0			
Bis(2-chloroethoxy)methane	575.7	160	666.7	0	86.3	45-110	0			
Bis(2-chloroethyl)ether	562.7	160	666.7	0	84.4	40-105	0			
Bis(2-chloroisopropyl)ether	634.3	160	666.7	0	95.1	20-115	0			
Bis(2-ethylhexyl)phthalate	661.7	330	666.7	0	99.2	45-125	0			
Butyl benzyl phthalate	659	160	666.7	0	98.8	50-125	0			
Carbazole	1142	160	666.7	0	171	50-150	0			S
Chrysene	631.7	30	666.7	0	94.7	55-110	0			
Dibenzo(a,h)anthracene	688	30	666.7	0	103	40-125	0			
Dibenzofuran	579	160	666.7	0	86.8	50-105	0			
Diethyl phthalate	596.3	330	666.7	0	89.4	50-115	0			
Dimethyl phthalate	567.7	330	666.7	0	85.1	50-110	0			
Di-n-butyl phthalate	656.7	330	666.7	0	98.5	55-110	0			
Di-n-octyl phthalate	703.3	160	666.7	0	105	40-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	613	30	666.7	0	91.9	55-115	0
Fluorene	609.7	30	666.7	0	91.4	50-110	0
Hexachlorobenzene	589.7	160	666.7	0	88.4	45-120	0
Hexachlorobutadiene	552.7	160	666.7	0	82.9	40-115	0
Hexachlorocyclopentadiene	347	330	666.7	0	52	40-115	0
Hexachloroethane	559	160	666.7	0	83.8	35-110	0
Indeno(1,2,3-cd)pyrene	684.7	30	666.7	0	103	40-120	0
Isophorone	570	160	666.7	0	85.5	45-110	0
Naphthalene	569	30	666.7	0	85.3	40-105	0
Nitrobenzene	583.3	160	666.7	0	87.5	40-115	0
N-Nitrosodi-n-propylamine	622	160	666.7	0	93.3	40-115	0
N-Nitrosodiphenylamine	638.7	160	666.7	0	95.8	50-115	0
Pentachlorophenol	583.3	330	666.7	0	87.5	25-120	0
Phenanthrene	573.7	30	666.7	0	86	50-110	0
Phenol	587	160	666.7	0	88	40-100	0
Pyrene	599	30	666.7	0	89.8	45-125	0
Surr: 2,4,6-Tribromophenol	*1441*	0	*1667*	0	*86.5*	*34-140*	0
Surr: 2-Fluorobiphenyl	*1318*	0	*1667*	0	*79.1*	*12-100*	0
Surr: 2-Fluorophenol	*1518*	0	*1667*	0	*91.1*	*33-117*	0
Surr: 4-Terphenyl-d14	*1732*	0	*1667*	0	*104*	*25-137*	0
Surr: Nitrobenzene-d5	*1424*	0	*1667*	0	*85.4*	*37-107*	0
Surr: Phenol-d6	*1460*	0	*1667*	0	*87.6*	*40-106*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

MS Sample ID: **1303834-09B MS** Units: **µg/Kg** Analysis Date: **4/1/2013 05:08 AM**

Client ID: **SB-6 (6-8')** Run ID: **SVMS6_130331A** SeqNo: **2258586** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1108	320	1328	0	83.4	50-110	0			
2,4,6-Trichlorophenol	1049	320	1328	0	79	45-110	0			
2,4-Dichlorophenol	1122	320	1328	0	84.5	45-110	0			
2,4-Dimethylphenol	675.1	660	1328	0	50.8	30-105	0			
2,4-Dinitrophenol	1005	1,300	1328	0	75.7	15-130	0			J
2,4-Dinitrotoluene	1157	320	1328	0	87.1	50-115	0			
2,6-Dinitrotoluene	1138	320	1328	0	85.7	50-110	0			
2-Chloronaphthalene	1083	160	1328	0	81.6	45-105	0			
2-Chlorophenol	1101	320	1328	0	82.9	45-105	0			
2-Methylnaphthalene	1126	160	1328	0	84.8	45-105	0			
2-Methylphenol	1046	320	1328	0	78.7	40-105	0			
2-Nitroaniline	1171	1,300	1328	0	88.2	45-120	0			J
2-Nitrophenol	1103	320	1328	0	83.1	40-110	0			
3-Nitroaniline	1167	1,300	1328	0	87.9	25-110	0			J
4-Bromophenyl phenyl ether	1125	320	1328	0	84.7	45-115	0			
4-Chloro-3-methylphenol	1154	320	1328	0	86.9	45-115	0			
4-Chloroaniline	446.8	1,300	1328	0	33.6	15-110	0			J
4-Chlorophenyl phenyl ether	1214	320	1328	0	91.4	45-110	0			
4-Methylphenol	1092	320	1328	0	82.2	40-105	0			
4-Nitroaniline	1284	1,300	1328	0	96.7	35-150	0			J
4-Nitrophenol	1279	1,300	1328	0	96.3	15-140	0			J
Acenaphthene	1074	60	1328	0	80.9	45-110	0			
Acenaphthylene	1084	60	1328	0	81.6	45-105	0			
Anthracene	1157	60	1328	0	87.1	55-105	0			
Benzo(a)anthracene	1165	60	1328	37.67	84.9	50-110	0			
Benzo(a)pyrene	1221	60	1328	33.7	89.4	50-110	0			
Benzo(b)fluoranthene	1208	60	1328	46.26	87.5	45-115	0			
Benzo(g,h,i)perylene	1235	60	1328	25.44	91.1	40-125	0			
Benzo(k)fluoranthene	1300	60	1328	18.83	96.5	45-115	0			
Bis(2-chloroethoxy)methane	1082	320	1328	0	81.5	45-110	0			
Bis(2-chloroethyl)ether	1050	320	1328	0	79	40-105	0			
Bis(2-chloroisopropyl)ether	1172	320	1328	0	88.3	20-115	0			
Bis(2-ethylhexyl)phthalate	1255	660	1328	0	94.5	45-125	0			
Butyl benzyl phthalate	1237	320	1328	0	93.1	50-125	0			
Carbazole	2123	320	1328	0	160	50-150	0			S
Chrysene	1220	60	1328	41.96	88.7	55-110	0			
Dibenzo(a,h)anthracene	1308	60	1328	0	98.5	40-125	0			
Dibenzofuran	1114	320	1328	0	83.9	50-105	0			
Diethyl phthalate	1152	660	1328	0	86.7	50-115	0			
Dimethyl phthalate	1078	660	1328	0	81.2	50-110	0			
Di-n-butyl phthalate	1234	660	1328	0	92.9	55-110	0			
Di-n-octyl phthalate	1334	320	1328	0	100	40-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	1218	60	1328	83.93	85.4	55-115	0	
Fluorene	1186	60	1328	0	89.3	50-110	0	
Hexachlorobenzene	1154	320	1328	0	86.9	45-120	0	
Hexachlorobutadiene	1032	320	1328	0	77.7	40-115	0	
Hexachlorocyclopentadiene	531.7	660	1328	0	40	40-115	0	J
Hexachloroethane	1031	320	1328	0	77.6	35-110	0	
Indeno(1,2,3-cd)pyrene	1310	60	1328	20.82	97.1	40-120	0	
Isophorone	1069	320	1328	0	80.5	45-110	0	
Naphthalene	1075	60	1328	0	80.9	40-105	0	
Nitrobenzene	1091	320	1328	0	82.2	40-115	0	
N-Nitrosodi-n-propylamine	1162	320	1328	0	87.5	40-115	0	
N-Nitrosodiphenylamine	1218	320	1328	0	91.7	50-115	0	
Pentachlorophenol	1240	660	1328	0	93.4	25-120	0	
Phenanthrene	1168	60	1328	48.24	84.4	50-110	0	
Phenol	1103	320	1328	0	83.1	40-100	0	
Pyrene	1160	60	1328	65.75	82.4	45-125	0	
Surr: 2,4,6-Tribromophenol	*2967*	0	*3319*	0	*89.4*	*34-140*	0	
Surr: 2-Fluorobiphenyl	*2513*	0	*3319*	0	*75.7*	*12-100*	0	
Surr: 2-Fluorophenol	*2862*	0	*3319*	0	*86.2*	*33-117*	0	
Surr: 4-Terphenyl-d14	*3317*	0	*3319*	0	*99.9*	*25-137*	0	
Surr: Nitrobenzene-d5	*2700*	0	*3319*	0	*81.3*	*37-107*	0	
Surr: Phenol-d6	*2793*	0	*3319*	0	*84.2*	*40-106*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

MSD Sample ID: **1303834-09B MSD** Units: **µg/Kg** Analysis Date: **4/1/2013 05:37 AM**

Client ID: **SB-6 (6-8')** Run ID: **SVMS6_130331A** SeqNo: **2258587** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1098	310	1297	0	84.7	50-110	1108	0.881	30	
2,4,6-Trichlorophenol	1041	310	1297	0	80.2	45-110	1049	0.798	30	
2,4-Dichlorophenol	1137	310	1297	0	87.7	45-110	1122	1.35	30	
2,4-Dimethylphenol	560.8	640	1297	0	43.2	30-105	675.1	0	30	J
2,4-Dinitrophenol	899.8	1,300	1297	0	69.4	15-130	1005	0	30	J
2,4-Dinitrotoluene	1149	310	1297	0	88.6	50-115	1157	0.718	30	
2,6-Dinitrotoluene	1133	310	1297	0	87.4	50-110	1138	0.404	30	
2-Chloronaphthalene	1112	160	1297	0	85.7	45-105	1083	2.59	30	
2-Chlorophenol	1129	310	1297	0	87.1	45-105	1101	2.57	30	
2-Methylnaphthalene	1153	160	1297	0	88.9	45-105	1126	2.41	30	
2-Methylphenol	1050	310	1297	0	80.9	40-105	1046	0.387	30	
2-Nitroaniline	1190	1,300	1297	0	91.8	45-120	1171	0	30	J
2-Nitrophenol	1116	310	1297	0	86	40-110	1103	1.12	30	
3-Nitroaniline	1187	1,300	1297	0	91.5	25-110	1167	0	30	J
4-Bromophenyl phenyl ether	1116	310	1297	0	86	45-115	1125	0.846	30	
4-Chloro-3-methylphenol	1149	310	1297	0	88.6	45-115	1154	0.488	30	
4-Chloroaniline	547.2	1,300	1297	0	42.2	15-110	446.8	0	30	J
4-Chlorophenyl phenyl ether	1230	310	1297	0	94.9	45-110	1214	1.33	30	
4-Methylphenol	1118	310	1297	0	86.2	40-105	1092	2.32	30	
4-Nitroaniline	1374	1,300	1297	0	106	35-150	1284	6.81	30	
4-Nitrophenol	1262	1,300	1297	0	97.3	15-140	1279	0	30	J
Acenaphthene	1090	58	1297	0	84.1	45-110	1074	1.51	30	
Acenaphthylene	1109	58	1297	0	85.5	45-105	1084	2.3	30	
Anthracene	1140	58	1297	0	87.9	55-105	1157	1.45	30	
Benzo(a)anthracene	1160	58	1297	37.67	86.5	50-110	1165	0.449	30	
Benzo(a)pyrene	1203	58	1297	33.7	90.1	50-110	1221	1.5	30	
Benzo(b)fluoranthene	1235	58	1297	46.26	91.7	45-115	1208	2.2	30	
Benzo(g,h,i)perylene	1206	58	1297	25.44	91	40-125	1235	2.37	30	
Benzo(k)fluoranthene	1240	58	1297	18.83	94.1	45-115	1300	4.8	30	
Bis(2-chloroethoxy)methane	1109	310	1297	0	85.5	45-110	1082	2.48	30	
Bis(2-chloroethyl)ether	1076	310	1297	0	82.9	40-105	1050	2.45	30	
Bis(2-chloroisopropyl)ether	1219	310	1297	0	94	20-115	1172	3.89	30	
Bis(2-ethylhexyl)phthalate	1268	640	1297	0	97.8	45-125	1255	1.01	30	
Butyl benzyl phthalate	1253	310	1297	0	96.6	50-125	1237	1.27	30	
Carbazole	2104	310	1297	0	162	50-150	2123	0.909	30	S
Chrysene	1200	58	1297	41.96	89.3	55-110	1220	1.66	30	
Dibenzo(a,h)anthracene	1306	58	1297	0	101	40-125	1308	0.16	30	
Dibenzofuran	1125	310	1297	0	86.8	50-105	1114	1.03	30	
Diethyl phthalate	1144	640	1297	0	88.2	50-115	1152	0.654	30	
Dimethyl phthalate	1096	640	1297	0	84.5	50-110	1078	1.62	30	
Di-n-butyl phthalate	1240	640	1297	0	95.6	55-110	1234	0.443	30	
Di-n-octyl phthalate	1354	310	1297	0	104	40-130	1334	1.49	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	1171	58	1297	83.93	83.9	55-115	1218	3.91	30	
Fluorene	1195	58	1297	0	92.1	50-110	1186	0.773	30	
Hexachlorobenzene	1148	310	1297	0	88.5	45-120	1154	0.487	30	
Hexachlorobutadiene	1062	310	1297	0	81.9	40-115	1032	2.83	30	
Hexachlorocyclopentadiene	514.1	640	1297	0	39.6	40-115	531.7	0	30	JS
Hexachloroethane	1059	310	1297	0	81.7	35-110	1031	2.72	30	
Indeno(1,2,3-cd)pyrene	1281	58	1297	20.82	97.2	40-120	1310	2.27	30	
Isophorone	1095	310	1297	0	84.4	45-110	1069	2.42	30	
Naphthalene	1089	58	1297	0	84	40-105	1075	1.33	30	
Nitrobenzene	1114	310	1297	0	85.9	40-115	1091	2.09	30	
N-Nitrosodi-n-propylamine	1201	310	1297	0	92.6	40-115	1162	3.3	30	
N-Nitrosodiphenylamine	1207	310	1297	0	93.1	50-115	1218	0.908	30	
Pentachlorophenol	1221	640	1297	0	94.2	25-120	1240	1.52	30	
Phenanthrene	1131	58	1297	48.24	83.5	50-110	1168	3.22	30	
Phenol	1138	310	1297	0	87.7	40-100	1103	3.08	30	
Pyrene	1158	58	1297	65.75	84.2	45-125	1160	0.218	30	
Surr: 2,4,6-Tribromophenol	*2867*	0	*3242*	0	*88.4*	*34-140*	2967	*3.45*	*40*	
Surr: 2-Fluorobiphenyl	*2564*	0	*3242*	0	*79.1*	*12-100*	2513	*2.03*	*40*	
Surr: 2-Fluorophenol	*2920*	0	*3242*	0	*90.1*	*33-117*	2862	*2.01*	*40*	
Surr: 4-Terphenyl-d14	*3260*	0	*3242*	0	*101*	*25-137*	3317	*1.73*	*40*	
Surr: Nitrobenzene-d5	*2733*	0	*3242*	0	*84.3*	*37-107*	2700	*1.23*	*40*	
Surr: Phenol-d6	*2838*	0	*3242*	0	*87.5*	*40-106*	2793	*1.57*	*40*	

The following samples were analyzed in this batch:

1303834-01B	1303834-02B	1303834-03B
1303834-04B	1303834-06B	1303834-07B
1303834-08B	1303834-09B	1303834-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47242** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **DBLKS1-47242-47242** Units: **mg/Kg** Analysis Date: **4/1/2013 01:58 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258547** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	4.2								
ORO (C21-C35)	U	4.2								
Surr: 4-Terphenyl-d14	*1.723*	0	*1.667*	0	*103*	*25-137*	0			

LCS Sample ID: **DLCSS1-47242-47242** Units: **mg/Kg** Analysis Date: **4/1/2013 03:27 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258551** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	132.4	4.2	166.7	0	79.4	49-124	0			
ORO (C21-C35)	139.4	4.2	166.7	0	83.6	60-130	0			
Surr: 4-Terphenyl-d14	*1.675*	0	*1.667*	0	*101*	*25-137*	0			

MS Sample ID: **1303834-09B MS** Units: **mg/Kg** Analysis Date: **4/1/2013 06:07 AM**
Client ID: **SB-6 (6-8')** Run ID: **SVMS6_130331A** SeqNo: **2258555** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	256.2	8.3	331.6	0	77.3	31-135	0			
ORO (C21-C35)	301.1	8.3	331.6	13.57	86.7	31-135	0			
Surr: 4-Terphenyl-d14	*3.358*	0	*3.316*	0	*101*	*25-137*	0			

MSD Sample ID: **1303834-09B MSD** Units: **mg/Kg** Analysis Date: **4/1/2013 06:37 AM**
Client ID: **SB-6 (6-8')** Run ID: **SVMS6_130331A** SeqNo: **2258559** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	262	8.1	324.1	0	80.8	31-135	256.2	2.22	30	
ORO (C21-C35)	296.4	8.1	324.1	13.57	87.3	31-135	301.1	1.58	30	
Surr: 4-Terphenyl-d14	*3.313*	0	*3.241*	0	*102*	*25-137*	3.358	*1.35*	*30*	

The following samples were analyzed in this batch:

1303834-01B	1303834-02B	1303834-03B
1303834-04B	1303834-06B	1303834-07B
1303834-08B	1303834-09B	1303834-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

MBLK Sample ID: **SBLKW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 10:40 PM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254344** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	20								
2-Nitrophenol	U	5.0								
3,3´-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	20								
4-Chlorophenyl phenyl ether	U	5.0								
4-Methylphenol	U	5.0								
4-Nitroaniline	U	20								
4-Nitrophenol	U	20								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	1.0								
Anthracene	U	5.0								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	1.96	5.0								J
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Chrysene	U	5.0								
Dibenzo(a,h)anthracene	U	5.0								
Dibenzofuran	U	5.0								
Diethyl phthalate	U	20								
Dimethyl phthalate	U	20								
Di-n-butyl phthalate	1.04	5.0								J
Di-n-octyl phthalate	0.56	5.0								J
Fluoranthene	U	5.0								
Fluorene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachlorobutadiene	U	5.0								
Hexachlorocyclopentadiene	U	20								
Hexachloroethane	U	5.0								
Indeno(1,2,3-cd)pyrene	U	5.0								
Isophorone	U	5.0								
Naphthalene	U	5.0								
Nitrobenzene	U	5.0								
N-Nitrosodi-n-propylamine	U	5.0								
N-Nitrosodiphenylamine	U	5.0								
Pentachlorophenol	U	20								
Phenanthrene	U	5.0								
Phenol	U	5.0								
Pyrene	U	5.0								
Surr: 2,4,6-Tribromophenol	*27.48*	0	*50*	0	*55*	*38-115*	0			
Surr: 2-Fluorobiphenyl	*26.89*	0	*50*	0	*53.8*	*32-100*	0			
Surr: 2-Fluorophenol	*16.55*	0	*50*	0	*33.1*	*22-59*	0			
Surr: 4-Terphenyl-d14	*47.34*	0	*50*	0	*94.7*	*23-112*	0			
Surr: Nitrobenzene-d5	*27.89*	0	*50*	0	*55.8*	*31-93*	0			
Surr: Phenol-d6	*8.25*	0	*50*	0	*16.5*	*13-36*	0			

MBLK Sample ID: **SBLKW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 10:40 PM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254378** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachloroethane	U	5.0								
Nitrobenzene	U	5.0								
Pentachlorophenol	U	20								
Surr: 2,4,6-Tribromophenol	*27.48*	0	*50*	0	*55*	*21-125*	0			
Surr: 2-Fluorobiphenyl	*26.89*	0	*50*	0	*53.8*	*36-94*	0			
Surr: 2-Fluorophenol	*16.55*	0	*50*	0	*33.1*	*10-75*	0			
Surr: 4-Terphenyl-d14	*47.34*	0	*50*	0	*94.7*	*26-119*	0			
Surr: Nitrobenzene-d5	*27.89*	0	*50*	0	*55.8*	*41-104*	0			
Surr: Phenol-d6	*8.25*	0	*50*	0	*16.5*	*11-50*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

LCS Sample ID: **SLCSW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 11:20 AM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2252096** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	12.1	5.0	20	0	60.5	50-110	0			
2,4,6-Trichlorophenol	12.23	5.0	20	0	61.2	50-115	0			
2,4-Dichlorophenol	13.44	10	20	0	67.2	50-105	0			
2,4-Dimethylphenol	13.23	5.0	20	0	66.2	30-110	0			
2,4-Dinitrophenol	11.47	5.0	20	0	57.4	15-140	0			
2,4-Dinitrotoluene	15.45	5.0	20	0	77.2	50-120	0			
2,6-Dinitrotoluene	14.61	5.0	20	0	73	50-115	0			
2-Chloronaphthalene	13.93	5.0	20	0	69.6	50-105	0			
2-Chlorophenol	13.17	5.0	20	0	65.8	35-105	0			
2-Methylnaphthalene	14.66	5.0	20	0	73.3	45-105	0			
2-Methylphenol	11.05	5.0	20	0	55.2	40-110	0			
2-Nitroaniline	16.27	20	20	0	81.4	50-115	0			J
2-Nitrophenol	13.52	5.0	20	0	67.6	40-115	0			
3-Nitroaniline	11.59	20	20	0	58	20-125	0			J
4,6-Dinitro-2-methylphenol	13.12	20	20	0	65.6	40-130	0			J
4-Bromophenyl phenyl ether	12.97	5.0	20	0	64.8	50-115	0			
4-Chloro-3-methylphenol	14.57	5.0	20	0	72.8	45-110	0			
4-Chloroaniline	16.57	20	20	0	82.8	15-110	0			J
4-Chlorophenyl phenyl ether	14.36	5.0	20	0	71.8	50-110	0			
4-Methylphenol	9.64	5.0	20	0	48.2	30-110	0			
4-Nitroaniline	13.19	20	20	0	66	35-150	0			J
4-Nitrophenol	2.4	20	20	0	12	1-58	0			J
Acenaphthene	14.4	5.0	20	0	72	45-110	0			
Acenaphthylene	14.93	5.0	20	0	74.6	50-105	0			
Anthracene	15.43	5.0	20	0	77.2	55-110	0			
Benzo(a)anthracene	15.28	5.0	20	0	76.4	55-110	0			
Benzo(a)pyrene	15.71	5.0	20	0	78.6	55-110	0			
Benzo(b)fluoranthene	15.94	5.0	20	0	79.7	45-120	0			
Benzo(g,h,i)perylene	15.03	5.0	20	0	75.2	40-125	0			
Benzo(k)fluoranthene	16.12	5.0	20	0	80.6	45-125	0			
Bis(2-chloroethoxy)methane	14.95	5.0	20	0	74.8	45-105	0			
Bis(2-chloroethyl)ether	15.27	5.0	20	0	76.4	35-110	0			
Bis(2-chloroisopropyl)ether	16.17	5.0	20	0	80.8	25-130	0			
Bis(2-ethylhexyl)phthalate	16.96	5.0	20	0	84.8	40-125	0			
Butyl benzyl phthalate	16.4	5.0	20	0	82	45-115	0			
Carbazole	15.16	10	20	0	75.8	50-150	0			
Chrysene	15.78	5.0	20	0	78.9	55-110	0			
Dibenzo(a,h)anthracene	16.73	5.0	20	0	83.6	40-125	0			
Dibenzofuran	14.41	5.0	20	0	72	55-105	0			
Diethyl phthalate	16.07	20	20	0	80.4	40-120	0			J
Dimethyl phthalate	15.08	20	20	0	75.4	25-125	0			J
Di-n-butyl phthalate	15.97	5.0	20	0	79.8	55-115	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Di-n-octyl phthalate	18.13	5.0	20	0	90.6	35-135	0		
Fluoranthene	15.72	5.0	20	0	78.6	55-115	0		
Fluorene	14.05	5.0	20	0	70.2	50-110	0		
Hexachlorobenzene	12.87	5.0	20	0	64.4	50-110	0		
Hexachlorobutadiene	12.32	5.0	20	0	61.6	25-105	0		
Hexachlorocyclopentadiene	7.44	20	20	0	37.2	25-105	0		J
Hexachloroethane	15.26	5.0	20	0	76.3	30-95	0		
Indeno(1,2,3-cd)pyrene	16.96	5.0	20	0	84.8	45-125	0		
Isophorone	15.18	5.0	20	0	75.9	50-110	0		
Naphthalene	14.43	5.0	20	0	72.2	40-100	0		
Nitrobenzene	14.79	5.0	20	0	74	45-110	0		
N-Nitrosodi-n-propylamine	16.54	5.0	20	0	82.7	35-130	0		
N-Nitrosodiphenylamine	15.36	5.0	20	0	76.8	50-110	0		
Pentachlorophenol	12.14	20	20	0	60.7	40-115	0		J
Phenanthrene	14.52	5.0	20	0	72.6	50-115	0		
Phenol	5.23	5.0	20	0	26.2	12-43	0		
Pyrene	16.62	5.0	20	0	83.1	50-130	0		
Surr: 2,4,6-Tribromophenol	*26.28*	0	*50*	0	*52.6*	*38-115*	0		
Surr: 2-Fluorobiphenyl	*29.95*	0	*50*	0	*59.9*	*32-100*	0		
Surr: 2-Fluorophenol	*18.32*	0	*50*	0	*36.6*	*22-59*	0		
Surr: 4-Terphenyl-d14	*43.81*	0	*50*	0	*87.6*	*23-112*	0		
Surr: Nitrobenzene-d5	*35.29*	0	*50*	0	*70.6*	*31-93*	0		
Surr: Phenol-d6	*10.91*	0	*50*	0	*21.8*	*13-36*	0		

LCS Sample ID: **SLCSW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 11:20 AM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254377** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	12.1	5.0	20	0	60.5	50-110	0			
2,4,6-Trichlorophenol	12.23	5.0	20	0	61.2	50-115	0			
2,4-Dinitrotoluene	15.45	5.0	20	0	77.2	50-120	0			
Hexachlorobenzene	12.87	5.0	20	0	64.4	50-110	0			
Hexachloroethane	15.26	5.0	20	0	76.3	30-95	0			
Nitrobenzene	14.79	5.0	20	0	74	45-110	0			
Pentachlorophenol	12.14	20	20	0	60.7	40-115	0			J
Surr: 2,4,6-Tribromophenol	*26.28*	0	*50*	0	*52.6*	*21-125*	0			
Surr: 2-Fluorobiphenyl	*29.95*	0	*50*	0	*59.9*	*36-94*	0			
Surr: 2-Fluorophenol	*18.32*	0	*50*	0	*36.6*	*10-75*	0			
Surr: 4-Terphenyl-d14	*43.81*	0	*50*	0	*87.6*	*26-119*	0			
Surr: Nitrobenzene-d5	*35.29*	0	*50*	0	*70.6*	*41-104*	0			
Surr: Phenol-d6	*10.91*	0	*50*	0	*21.8*	*11-50*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **3/29/2013 12:43 PM**

Client ID: **Rinsate Blank** Run ID: **SVMS7_130328A** SeqNo: **2254347** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	128.2	50	200	0	64.1	50-110	0			
2,4,6-Trichlorophenol	126.1	50	200	0	63	50-115	0			
2,4-Dichlorophenol	133.2	100	200	0	66.6	50-105	0			
2,4-Dimethylphenol	129.9	50	200	0	65	30-110	0			
2,4-Dinitrophenol	74.7	50	200	0	37.4	15-140	0			
2,4-Dinitrotoluene	147.9	50	200	0	74	50-120	0			
2,6-Dinitrotoluene	146.6	50	200	0	73.3	50-115	0			
2-Chloronaphthalene	146.9	50	200	0	73.4	50-105	0			
2-Chlorophenol	132.8	50	200	0	66.4	35-105	0			
2-Methylnaphthalene	149.7	50	200	0	74.8	45-105	0			
2-Methylphenol	109.1	50	200	0	54.6	40-110	0			
2-Nitroaniline	143.2	200	200	0	71.6	50-115	0			J
2-Nitrophenol	128.5	50	200	0	64.2	40-115	0			
3-Nitroaniline	122	200	200	0	61	20-125	0			J
4,6-Dinitro-2-methylphenol	104.2	200	200	0	52.1	40-130	0			J
4-Bromophenyl phenyl ether	146.4	50	200	0	73.2	50-115	0			
4-Chloro-3-methylphenol	130.5	50	200	0	65.2	45-110	0			
4-Chloroaniline	182.4	200	200	0	91.2	15-110	0			J
4-Chlorophenyl phenyl ether	150.7	50	200	0	75.4	50-110	0			
4-Methylphenol	95.4	50	200	0	47.7	30-110	0			
4-Nitroaniline	142.3	200	200	0	71.2	35-150	0			J
4-Nitrophenol	93.9	200	200	0	47	1-58	0			J
Acenaphthene	142.1	50	200	0	71	45-110	0			
Acenaphthylene	152.5	50	200	0	76.2	50-105	0			
Anthracene	159.1	50	200	0	79.6	55-110	0			
Benzo(a)anthracene	148.8	50	200	0	74.4	55-110	0			
Benzo(a)pyrene	144.5	50	200	0	72.2	55-110	0			
Benzo(b)fluoranthene	143.6	50	200	0	71.8	45-120	0			
Benzo(g,h,i)perylene	137.2	50	200	0	68.6	40-125	0			
Benzo(k)fluoranthene	165.9	50	200	0	83	45-125	0			
Bis(2-chloroethoxy)methane	142.5	50	200	0	71.2	45-105	0			
Bis(2-chloroethyl)ether	138	50	200	0	69	35-110	0			
Bis(2-chloroisopropyl)ether	145	50	200	0	72.5	25-130	0			
Bis(2-ethylhexyl)phthalate	191.2	50	200	1.78	94.7	40-125	0			
Butyl benzyl phthalate	168.3	50	200	0	84.2	45-115	0			
Carbazole	185.3	100	200	0	92.6	50-150	0			
Chrysene	153.5	50	200	0	76.8	55-110	0			
Dibenzo(a,h)anthracene	141.3	50	200	0	70.6	40-125	0			
Dibenzofuran	145.5	50	200	0	72.8	55-105	0			
Diethyl phthalate	163.5	200	200	0	81.8	40-120	0			J
Dimethyl phthalate	155.9	200	200	0	78	25-125	0			J
Di-n-butyl phthalate	181.6	50	200	0	90.8	55-115	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Di-n-octyl phthalate	156.4	50	200	0	78.2	35-135	0			
Fluoranthene	171	50	200	0	85.5	55-115	0			
Fluorene	158.5	50	200	0	79.2	50-110	0			
Hexachlorobenzene	142.6	50	200	0	71.3	50-110	0			
Hexachlorobutadiene	131.3	50	200	0	65.6	25-105	0			
Hexachlorocyclopentadiene	97.6	200	200	0	48.8	25-105	0			J
Hexachloroethane	137.8	50	200	0	68.9	30-95	0			
Indeno(1,2,3-cd)pyrene	140.7	50	200	0	70.4	45-125	0			
Isophorone	149.7	50	200	0	74.8	50-110	0			
Naphthalene	139.7	50	200	0	69.8	40-100	0			
Nitrobenzene	137.1	50	200	0	68.6	45-110	0			
N-Nitrosodi-n-propylamine	149.3	50	200	0	74.6	35-130	0			
N-Nitrosodiphenylamine	161	50	200	0	80.5	50-110	0			
Pentachlorophenol	134.3	200	200	0	67.2	40-115	0			J
Phenanthrene	155	50	200	0	77.5	50-115	0			
Phenol	51.3	50	200	0	25.6	12-43	0			
Pyrene	160.7	50	200	0	80.4	50-130	0			
Surr: 2,4,6-Tribromophenol	*348.7*	0	*500*	0	*69.7*	*38-115*	0			
Surr: 2-Fluorobiphenyl	*336.7*	0	*500*	0	*67.3*	*32-100*	0			
Surr: 2-Fluorophenol	*190.6*	0	*500*	0	*38.1*	*22-59*	0			
Surr: 4-Terphenyl-d14	*449.5*	0	*500*	0	*89.9*	*23-112*	0			
Surr: Nitrobenzene-d5	*340*	0	*500*	0	*68*	*31-93*	0			
Surr: Phenol-d6	*109.3*	0	*500*	0	*21.9*	*13-36*	0			

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **3/29/2013 12:43 PM**

Client ID: **Rinsate Blank** Run ID: **SVMS7_130328A** SeqNo: **2254391** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	128.2	50	200	0	64.1	50-110	0			
2,4,6-Trichlorophenol	126.1	50	200	0	63	50-115	0			
2,4-Dinitrotoluene	147.9	50	200	0	74	50-120	0			
Hexachlorobenzene	142.6	50	200	0	71.3	50-110	0			
Hexachloroethane	137.8	50	200	0	68.9	30-95	0			
Nitrobenzene	137.1	50	200	0	68.6	45-110	0			
Pentachlorophenol	134.3	200	200	0	67.2	40-115	0			J
Surr: 2,4,6-Tribromophenol	*348.7*	0	*500*	0	*69.7*	*21-125*	0			
Surr: 2-Fluorobiphenyl	*336.7*	0	*500*	0	*67.3*	*36-94*	0			
Surr: 2-Fluorophenol	*190.6*	0	*500*	0	*38.1*	*10-75*	0			
Surr: 4-Terphenyl-d14	*449.5*	0	*500*	0	*89.9*	*26-119*	0			
Surr: Nitrobenzene-d5	*340*	0	*500*	0	*68*	*41-104*	0			
Surr: Phenol-d6	*109.3*	0	*500*	0	*21.9*	*11-50*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **3/29/2013 01:10 AM**

Client ID: **Rinsate Blank** Run ID: **SVMS7_130328A** SeqNo: **2254345** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	127.1	50	200	0	63.6	50-110	128.2	0.862	30	
2,4,6-Trichlorophenol	126	50	200	0	63	50-115	126.1	0.0793	30	
2,4-Dichlorophenol	138.5	100	200	0	69.2	50-105	133.2	3.9	30	
2,4-Dimethylphenol	125.1	50	200	0	62.6	30-110	129.9	3.76	30	
2,4-Dinitrophenol	91.6	50	200	0	45.8	15-140	74.7	20.3	30	
2,4-Dinitrotoluene	146	50	200	0	73	50-120	147.9	1.29	30	
2,6-Dinitrotoluene	143.4	50	200	0	71.7	50-115	146.6	2.21	30	
2-Chloronaphthalene	146.4	50	200	0	73.2	50-105	146.9	0.341	30	
2-Chlorophenol	136.2	50	200	0	68.1	35-105	132.8	2.53	30	
2-Methylnaphthalene	155.3	50	200	0	77.6	45-105	149.7	3.67	30	
2-Methylphenol	110.2	50	200	0	55.1	40-110	109.1	1	30	
2-Nitroaniline	139.5	200	200	0	69.8	50-115	143.2	0	30	J
2-Nitrophenol	138	50	200	0	69	40-115	128.5	7.13	30	
3-Nitroaniline	111.5	200	200	0	55.8	20-125	122	0	30	J
4,6-Dinitro-2-methylphenol	130.4	200	200	0	65.2	40-130	104.2	0	30	J
4-Bromophenyl phenyl ether	150.2	50	200	0	75.1	50-115	146.4	2.56	30	
4-Chloro-3-methylphenol	134.3	50	200	0	67.2	45-110	130.5	2.87	30	
4-Chloroaniline	179.2	200	200	0	89.6	15-110	182.4	0	30	J
4-Chlorophenyl phenyl ether	150.1	50	200	0	75	50-110	150.7	0.399	30	
4-Methylphenol	96.6	50	200	0	48.3	30-110	95.4	1.25	30	
4-Nitroaniline	128.3	200	200	0	64.2	35-150	142.3	0	30	J
4-Nitrophenol	87.4	200	200	0	43.7	1-58	93.9	0	0	J
Acenaphthene	142.8	50	200	0	71.4	45-110	142.1	0.491	30	
Acenaphthylene	150.7	50	200	0	75.4	50-105	152.5	1.19	30	
Anthracene	159.6	50	200	0	79.8	55-110	159.1	0.314	30	
Benzo(a)anthracene	146.5	50	200	0	73.2	55-110	148.8	1.56	30	
Benzo(a)pyrene	144.3	50	200	0	72.2	55-110	144.5	0.139	30	
Benzo(b)fluoranthene	136.3	50	200	0	68.2	45-120	143.6	5.22	30	
Benzo(g,h,i)perylene	139.2	50	200	0	69.6	40-125	137.2	1.45	30	
Benzo(k)fluoranthene	170	50	200	0	85	45-125	165.9	2.44	30	
Bis(2-chloroethoxy)methane	147.5	50	200	0	73.8	45-105	142.5	3.45	30	
Bis(2-chloroethyl)ether	142.3	50	200	0	71.2	35-110	138	3.07	30	
Bis(2-chloroisopropyl)ether	151.2	50	200	0	75.6	25-130	145	4.19	30	
Bis(2-ethylhexyl)phthalate	191.1	50	200	1.78	94.7	40-125	191.2	0.0523	30	
Butyl benzyl phthalate	171.5	50	200	0	85.8	45-115	168.3	1.88	30	
Carbazole	186.5	100	200	0	93.2	50-150	185.3	0.646	30	
Chrysene	154.1	50	200	0	77	55-110	153.5	0.39	30	
Dibenzo(a,h)anthracene	141.6	50	200	0	70.8	40-125	141.3	0.212	30	
Dibenzofuran	144.4	50	200	0	72.2	55-105	145.5	0.759	30	
Diethyl phthalate	158.3	200	200	0	79.2	40-120	163.5	0	30	J
Dimethyl phthalate	150.1	200	200	0	75	25-125	155.9	0	30	J
Di-n-butyl phthalate	183.1	50	200	0	91.6	55-115	181.6	0.823	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Di-n-octyl phthalate	155	50	200	0	77.5	35-135	156.4	0.899	30	
Fluoranthene	172.1	50	200	0	86	55-115	171	0.641	30	
Fluorene	156.2	50	200	0	78.1	50-110	158.5	1.46	30	
Hexachlorobenzene	145.1	50	200	0	72.6	50-110	142.6	1.74	30	
Hexachlorobutadiene	140.1	50	200	0	70	25-105	131.3	6.48	30	
Hexachlorocyclopentadiene	101.5	200	200	0	50.8	25-105	97.6	0	30	J
Hexachloroethane	144.7	50	200	0	72.4	30-95	137.8	4.88	30	
Indeno(1,2,3-cd)pyrene	140.9	50	200	0	70.4	45-125	140.7	0.142	30	
Isophorone	154.5	50	200	0	77.2	50-110	149.7	3.16	30	
Naphthalene	145.2	50	200	0	72.6	40-100	139.7	3.86	30	
Nitrobenzene	145.1	50	200	0	72.6	45-110	137.1	5.67	30	
N-Nitrosodi-n-propylamine	156.5	50	200	0	78.2	35-130	149.3	4.71	30	
N-Nitrosodiphenylamine	166.9	50	200	0	83.4	50-110	161	3.6	30	
Pentachlorophenol	145.2	200	200	0	72.6	40-115	134.3	0	30	J
Phenanthrene	154.8	50	200	0	77.4	50-115	155	0.129	30	
Phenol	50	50	200	0	25	12-43	51.3	2.57	30	
Pyrene	159.1	50	200	0	79.6	50-130	160.7	1	30	
Surr: 2,4,6-Tribromophenol	*365.2*	0	*500*	0	*73*	*38-115*	348.7	*4.62*	*40*	
Surr: 2-Fluorobiphenyl	*324.1*	0	*500*	0	*64.8*	*32-100*	336.7	*3.81*	*40*	
Surr: 2-Fluorophenol	*188.7*	0	*500*	0	*37.7*	*22-59*	190.6	*1*	*40*	
Surr: 4-Terphenyl-d14	*446.6*	0	*500*	0	*89.3*	*23-112*	449.5	*0.647*	*40*	
Surr: Nitrobenzene-d5	*361.4*	0	*500*	0	*72.3*	*31-93*	340	*6.1*	*40*	
Surr: Phenol-d6	*105.7*	0	*500*	0	*21.1*	*13-36*	109.3	*3.35*	*40*	

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **3/29/2013 01:10 AM**

Client ID: **Rinsate Blank** Run ID: **SVMS7_130328A** SeqNo: **2254381** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	127.1	50	200	0	63.6	50-110	128.2	0.862	30	
2,4,6-Trichlorophenol	126	50	200	0	63	50-115	126.1	0.0793	30	
2,4-Dinitrotoluene	146	50	200	0	73	50-120	147.9	1.29	30	
Hexachlorobenzene	145.1	50	200	0	72.6	50-110	142.6	1.74	30	
Hexachloroethane	144.7	50	200	0	72.4	30-95	137.8	4.88	30	
Nitrobenzene	145.1	50	200	0	72.6	45-110	137.1	5.67	30	
Pentachlorophenol	145.2	200	200	0	72.6	40-115	134.3	0	30	J
Surr: 2,4,6-Tribromophenol	*365.2*	0	*500*	0	*73*	*21-125*	348.7	*4.62*	*0*	
Surr: 2-Fluorobiphenyl	*324.1*	0	*500*	0	*64.8*	*36-94*	336.7	*3.81*	*0*	
Surr: 2-Fluorophenol	*188.7*	0	*500*	0	*37.7*	*10-75*	190.6	*1*	*0*	
Surr: 4-Terphenyl-d14	*446.6*	0	*500*	0	*89.3*	*26-119*	449.5	*0.647*	*0*	
Surr: Nitrobenzene-d5	*361.4*	0	*500*	0	*72.3*	*41-104*	340	*6.1*	*0*	
Surr: Phenol-d6	*105.7*	0	*500*	0	*21.1*	*11-50*	109.3	*3.35*	*0*	

The following samples were analyzed in this batch: 1303834-11B 1303834-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47247** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **DBLKW1-47247-47247** Units: **mg/L** Analysis Date: **4/1/2013 01:28 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258488** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	0.10								
ORO (C21-C35)	U	0.10								
Surr: 4-Terphenyl-d14	*0.04113*	0	*0.05*	0	*82.3*	*23-112*	0			

LCS Sample ID: **DLCSW1-47247-47247** Units: **mg/L** Analysis Date: **4/1/2013 02:57 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258492** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	3.31	0.10	5	0	66.2	44-116	0			
ORO (C21-C35)	3.794	0.10	5	0	75.9	44-116	0			
Surr: 4-Terphenyl-d14	*0.04072*	0	*0.05*	0	*81.4*	*23-112*	0			

MS Sample ID: **1303834-11B MS** Units: **mg/L** Analysis Date: **4/1/2013 07:07 AM**
Client ID: **Field Blank** Run ID: **SVMS6_130331A** SeqNo: **2258499** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	28.46	1.0	50	0	56.9	44-116	0			
ORO (C21-C35)	31.18	1.0	50	0	62.4	44-116	0			
Surr: 4-Terphenyl-d14	*0.2788*	0	*0.5*	0	*55.8*	*23-112*	0			

MSD Sample ID: **1303834-11B MSD** Units: **mg/L** Analysis Date: **4/1/2013 07:37 AM**
Client ID: **Field Blank** Run ID: **SVMS6_130331A** SeqNo: **2258501** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	28.92	1.0	50	0	57.8	44-116	28.46	1.61	30	
ORO (C21-C35)	32.02	1.0	50	0	64	44-116	31.18	2.64	30	
Surr: 4-Terphenyl-d14	*0.3472*	0	*0.5*	0	*69.4*	*23-112*	0.2788	*21.9*	*30*	

The following samples were analyzed in this batch: 1303834-11B 1303834-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 12:16 PM**

Client ID: Run ID: **VMS8_130327B** SeqNo: **2252268** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*934*	0	*1000*	0	*93.4*	*70-130*	0
Surr: 4-Bromofluorobenzene	*962.5*	0	*1000*	0	*96.2*	*70-130*	0
Surr: Dibromofluoromethane	*950.5*	0	*1000*	0	*95*	*70-130*	0
Surr: Toluene-d8	*937.5*	0	*1000*	0	*93.8*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/27/2013 08:20 PM**

Client ID: Run ID: **VMS6_130327B** SeqNo: **2252387** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*959*	0	*1000*	0	*95.9*	*70-130*	0
Surr: 4-Bromofluorobenzene	*937.5*	0	*1000*	0	*93.8*	*70-130*	0
Surr: Dibromofluoromethane	*960.5*	0	*1000*	0	*96*	*70-130*	0
Surr: Toluene-d8	*954*	0	*1000*	0	*95.4*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/27/2013 06:16 PM**

Client ID: Run ID: **VMS9_130327A** SeqNo: **2252554** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*1028*	0	*1000*	0	*103*	*70-130*	0
Surr: 4-Bromofluorobenzene	*861.5*	0	*1000*	0	*86.2*	*70-130*	0
Surr: Dibromofluoromethane	*980.5*	0	*1000*	0	*98*	*70-130*	0
Surr: Toluene-d8	*953*	0	*1000*	0	*95.3*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 02:23 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2252824** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*995*	0	*1000*	0	*99.5*	*70-130*	0
Surr: 4-Bromofluorobenzene	*988.5*	0	*1000*	0	*98.8*	*70-130*	0
Surr: Dibromofluoromethane	*973.5*	0	*1000*	0	*97.4*	*70-130*	0
Surr: Toluene-d8	*951*	0	*1000*	0	*95.1*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 02:23 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2253037** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*897*	0	*1000*	0	*89.7*	*70-130*	0
Surr: 4-Bromofluorobenzene	*941*	0	*1000*	0	*94.1*	*70-130*	0
Surr: Dibromofluoromethane	*879*	0	*1000*	0	*87.9*	*70-130*	0
Surr: Toluene-d8	*893.5*	0	*1000*	0	*89.4*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 02:38 PM**

Client ID: Run ID: **VMS5_130328A** SeqNo: **2253430** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*967.5*	0	*1000*	0	*96.8*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1025*	0	*1000*	0	*102*	*70-130*	0
Surr: Dibromofluoromethane	*957.5*	0	*1000*	0	*95.8*	*70-130*	0
Surr: Toluene-d8	*959*	0	*1000*	0	*95.9*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 10:31 AM**

Client ID: Run ID: **VMS6_130328A** SeqNo: **2253526** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30	0	0	0	0-0	0			
1,1,2,2-Tetrachloroethane	U	30	0	0	0	0-0	0			
1,1,2-Trichloroethane	U	30	0	0	0	0-0	0			
1,1,2-Trichlorotrifluoroethane	U	30	0	0	0		0			
1,1-Dichloroethane	U	30	0	0	0	0-0	0			
1,1-Dichloroethene	U	30	0	0	0	0-0	0			
1,2,4-Trichlorobenzene	U	30	0	0	0	0-0	0			
1,2-Dibromo-3-chloropropane	U	30	0	0	0	0-0	0			
1,2-Dibromoethane	U	30	0	0	0	0-0	0			
1,2-Dichlorobenzene	U	30	0	0	0	0-0	0			
1,2-Dichloroethane	U	30	0	0	0	0-0	0			
1,2-Dichloropropane	U	30	0	0	0	0-0	0			
1,3-Dichlorobenzene	U	30	0	0	0	0-0	0			
1,4-Dichlorobenzene	U	30	0	0	0	0-0	0			
2-Butanone	U	200	0	0	0	0-0	0			
2-Hexanone	U	30	0	0	0	0-0	0			
4-Methyl-2-pentanone	U	30	0	0	0	0-0	0			
Acetone	U	100	0	0	0	0-0	0			
Benzene	U	30	0	0	0	0-0	0			
Bromodichloromethane	U	30	0	0	0	0-0	0			
Bromoform	U	30	0	0	0	0-0	0			
Bromomethane	U	75	0	0	0	0-0	0			
Carbon disulfide	U	30	0	0	0	0-0	0			
Carbon tetrachloride	U	30	0	0	0	0-0	0			
Chlorobenzene	U	30	0	0	0	0-0	0			
Chloroethane	U	100	0	0	0	0-0	0			
Chloroform	U	30	0	0	0	0-0	0			
Chloromethane	U	100	0	0	0	0-0	0			
cis-1,2-Dichloroethene	U	30	0	0	0	0-0	0			
cis-1,3-Dichloropropene	U	30	0	0	0	0-0	0			
Cyclohexane	U	30	0	0	0		0			
Dibromochloromethane	U	30	0	0	0	0-0	0			
Dichlorodifluoromethane	U	30	0	0	0	0-0	0			
Ethylbenzene	U	30	0	0	0	0-0	0			
GRO (C6-C10)	U	2,500	0	0	0		0			
Isopropylbenzene	U	30	0	0	0	0-0	0			
m,p-Xylene	U	60	0	0	0	0-0	0			
Methyl acetate	U	200	0	0	0		0			
Methyl tert-butyl ether	U	30	0	0	0	0-0	0			
Methylcyclohexane	U	30	0	0	0		0			
Methylene chloride	U	30	0	0	0	0-0	0			
o-Xylene	U	30	0	0	0	0-0	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30	0	0	0	0-0	0
Tetrachloroethene	U	30	0	0	0	0-0	0
Toluene	U	30	0	0	0	0-0	0
trans-1,2-Dichloroethene	U	30	0	0	0	0-0	0
trans-1,3-Dichloropropene	U	30	0	0	0	0-0	0
Trichloroethene	U	30	0	0	0	0-0	0
Trichlorofluoromethane	U	30	0	0	0	0-0	0
Vinyl chloride	U	30	0	0	0	0-0	0
Xylenes, Total	U	90	0	0	0	0-0	0
Surr: 1,2-Dichloroethane-d4	*956.5*	0	*1000*	0	*95.6*	*70-130*	0
Surr: 4-Bromofluorobenzene	*946*	0	*1000*	0	*94.6*	*70-130*	0
Surr: Dibromofluoromethane	*943*	0	*1000*	0	*94.3*	*70-130*	0
Surr: Toluene-d8	*942.5*	0	*1000*	0	*94.2*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-47228-47228** Units: **µg/Kg** Analysis Date: **3/29/2013 11:01 AM**

Client ID: Run ID: **VMS6_130329A** SeqNo: **2255701** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*941*	0	*1000*	0	*94.1*	*70-130*	0
Surr: 4-Bromofluorobenzene	*936.5*	0	*1000*	0	*93.6*	*70-130*	0
Surr: Dibromofluoromethane	*942.5*	0	*1000*	0	*94.2*	*70-130*	0
Surr: Toluene-d8	*943*	0	*1000*	0	*94.3*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/27/2013 11:29 PM**

Client ID: Run ID: **VMS8_130327B** SeqNo: **2252267** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1073	30	1000	0	107	70-135	0			
1,1,2,2-Tetrachloroethane	1030	30	1000	0	103	55-130	0			
1,1,2-Trichloroethane	996.5	30	1000	0	99.6	60-125	0			
1,1-Dichloroethane	1039	30	1000	0	104	75-125	0			
1,1-Dichloroethene	1040	30	1000	0	104	65-135	0			
1,2,4-Trichlorobenzene	974	30	1000	0	97.4	65-130	0			
1,2-Dibromo-3-chloropropane	1050	30	1000	0	105	40-135	0			
1,2-Dibromoethane	1022	30	1000	0	102	70-125	0			
1,2-Dichlorobenzene	983.5	30	1000	0	98.4	75-120	0			
1,2-Dichloroethane	1014	30	1000	0	101	70-135	0			
1,2-Dichloropropane	1025	30	1000	0	102	70-120	0			
1,3-Dichlorobenzene	964	30	1000	0	96.4	70-125	0			
1,4-Dichlorobenzene	968.5	30	1000	0	96.8	70-125	0			
2-Butanone	1178	200	1000	0	118	30-160	0			
2-Hexanone	1095	30	1000	0	110	45-145	0			
4-Methyl-2-pentanone	1428	30	1000	0	143	45-145	0			
Acetone	1268	100	1000	0	127	20-160	0			
Benzene	1020	30	1000	0	102	75-125	0			
Bromodichloromethane	1058	30	1000	0	106	70-130	0			
Bromoform	1003	30	1000	0	100	55-135	0			
Bromomethane	1204	75	1000	0	120	30-160	0			
Carbon disulfide	1108	30	1000	0	111	45-160	0			
Carbon tetrachloride	1074	30	1000	0	107	65-135	0			
Chlorobenzene	995	30	1000	0	99.5	75-125	0			
Chloroethane	1007	100	1000	0	101	40-155	0			
Chloroform	1030	30	1000	0	103	70-125	0			
Chloromethane	986	100	1000	0	98.6	50-130	0			
cis-1,2-Dichloroethene	1057	30	1000	0	106	65-125	0			
cis-1,3-Dichloropropene	1070	30	1000	0	107	70-125	0			
Dibromochloromethane	997	30	1000	0	99.7	65-135	0			
Dichlorodifluoromethane	856.5	30	1000	0	85.6	35-135	0			
Ethylbenzene	999.5	30	1000	0	100	75-125	0			
Isopropylbenzene	1026	30	1000	0	103	75-130	0			
m,p-Xylene	2008	60	2000	0	100	80-125	0			
Methyl tert-butyl ether	1176	30	1000	0	118	75-125	0			
Methylene chloride	992	30	1000	0	99.2	55-145	0			
o-Xylene	1008	30	1000	0	101	75-125	0			
Styrene	1053	30	1000	0	105	75-125	0			
Tetrachloroethene	1020	30	1000	0	102	64-140	0			
Toluene	966.5	30	1000	0	96.6	70-125	0			
trans-1,2-Dichloroethene	1048	30	1000	0	105	65-135	0			
trans-1,3-Dichloropropene	1020	30	1000	0	102	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	1006	30	1000	0	101	75-125	0
Trichlorofluoromethane	1126	30	1000	0	113	25-185	0
Vinyl chloride	1156	30	1000	0	116	60-125	0
Xylenes, Total	3016	90	3000	0	101	75-125	0
Surr: 1,2-Dichloroethane-d4	*977*	0	*1000*	0	*97.7*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1018*	0	*1000*	0	*102*	*70-130*	0
Surr: Dibromofluoromethane	*1009*	0	*1000*	0	*101*	*70-130*	0
Surr: Toluene-d8	*970*	0	*1000*	0	*97*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/27/2013 07:07 PM**

Client ID: Run ID: **VMS6_130327B** SeqNo: **2252386** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1012	30	1000	0	101	70-135	0			
1,1,2,2-Tetrachloroethane	959.5	30	1000	0	96	55-130	0			
1,1,2-Trichloroethane	880.5	30	1000	0	88	60-125	0			
1,1-Dichloroethane	933.5	30	1000	0	93.4	75-125	0			
1,1-Dichloroethene	1035	30	1000	0	104	65-135	0			
1,2,4-Trichlorobenzene	1020	30	1000	0	102	65-130	0			
1,2-Dibromo-3-chloropropane	930.5	30	1000	0	93	40-135	0			
1,2-Dibromoethane	979	30	1000	0	97.9	70-125	0			
1,2-Dichlorobenzene	1008	30	1000	0	101	75-120	0			
1,2-Dichloroethane	987	30	1000	0	98.7	70-135	0			
1,2-Dichloropropane	892.5	30	1000	0	89.2	70-120	0			
1,3-Dichlorobenzene	981	30	1000	0	98.1	70-125	0			
1,4-Dichlorobenzene	997.5	30	1000	0	99.8	70-125	0			
2-Butanone	1179	200	1000	0	118	30-160	0			
2-Hexanone	1099	30	1000	0	110	45-145	0			
4-Methyl-2-pentanone	1386	30	1000	0	139	45-145	0			
Acetone	1132	100	1000	0	113	20-160	0			
Benzene	1014	30	1000	0	101	75-125	0			
Bromodichloromethane	918	30	1000	0	91.8	70-130	0			
Bromoform	863	30	1000	0	86.3	55-135	0			
Bromomethane	1562	75	1000	0	156	30-160	0			
Carbon disulfide	1008	30	1000	0	101	45-160	0			
Carbon tetrachloride	1080	30	1000	0	108	65-135	0			
Chlorobenzene	1001	30	1000	0	100	75-125	0			
Chloroethane	951	100	1000	0	95.1	40-155	0			
Chloroform	951.5	30	1000	0	95.2	70-125	0			
Chloromethane	918	100	1000	0	91.8	50-130	0			
cis-1,2-Dichloroethene	928	30	1000	0	92.8	65-125	0			
cis-1,3-Dichloropropene	907.5	30	1000	0	90.8	70-125	0			
Dibromochloromethane	885	30	1000	0	88.5	65-135	0			
Dichlorodifluoromethane	1041	30	1000	0	104	35-135	0			
Ethylbenzene	1003	30	1000	0	100	75-125	0			
Isopropylbenzene	1042	30	1000	0	104	75-130	0			
m,p-Xylene	2004	60	2000	0	100	80-125	0			
Methyl tert-butyl ether	1057	30	1000	0	106	75-125	0			
Methylene chloride	993.5	30	1000	0	99.4	55-145	0			
o-Xylene	998.5	30	1000	0	99.8	75-125	0			
Styrene	1004	30	1000	0	100	75-125	0			
Tetrachloroethene	1057	30	1000	0	106	64-140	0			
Toluene	980	30	1000	0	98	70-125	0			
trans-1,2-Dichloroethene	986.5	30	1000	0	98.6	65-135	0			
trans-1,3-Dichloropropene	896	30	1000	0	89.6	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	1004	30	1000	0	100	75-125	0
Trichlorofluoromethane	1138	30	1000	0	114	25-185	0
Vinyl chloride	1044	30	1000	0	104	60-125	0
Xylenes, Total	3003	90	3000	0	100	75-125	0
Surr: 1,2-Dichloroethane-d4	*952*	0	*1000*	0	*95.2*	*70-130*	0
Surr: 4-Bromofluorobenzene	*971*	0	*1000*	0	*97.1*	*70-130*	0
Surr: Dibromofluoromethane	*994.5*	0	*1000*	0	*99.4*	*70-130*	0
Surr: Toluene-d8	*952*	0	*1000*	0	*95.2*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/27/2013 05:00 PM**

Client ID: Run ID: **VMS9_130327A** SeqNo: **2252553** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	993.5	30	1000	0	99.4	70-135	0			
1,1,2,2-Tetrachloroethane	939	30	1000	0	93.9	55-130	0			
1,1,2-Trichloroethane	901	30	1000	0	90.1	60-125	0			
1,1-Dichloroethane	925	30	1000	0	92.5	75-125	0			
1,1-Dichloroethene	1010	30	1000	0	101	65-135	0			
1,2,4-Trichlorobenzene	935.5	30	1000	0	93.6	65-130	0			
1,2-Dibromo-3-chloropropane	816	30	1000	0	81.6	40-135	0			
1,2-Dibromoethane	925.5	30	1000	0	92.6	70-125	0			
1,2-Dichlorobenzene	962.5	30	1000	0	96.2	75-120	0			
1,2-Dichloroethane	905.5	30	1000	0	90.6	70-135	0			
1,2-Dichloropropane	934.5	30	1000	0	93.4	70-120	0			
1,3-Dichlorobenzene	950.5	30	1000	0	95	70-125	0			
1,4-Dichlorobenzene	964.5	30	1000	0	96.4	70-125	0			
2-Butanone	843.5	200	1000	0	84.4	30-160	0			
2-Hexanone	946.5	30	1000	0	94.6	45-145	0			
4-Methyl-2-pentanone	1101	30	1000	0	110	45-145	0			
Acetone	1072	100	1000	0	107	20-160	0			
Benzene	897	30	1000	0	89.7	75-125	0			
Bromodichloromethane	916	30	1000	0	91.6	70-130	0			
Bromoform	914.5	30	1000	0	91.4	55-135	0			
Bromomethane	1241	75	1000	0	124	30-160	0			
Carbon disulfide	993.5	30	1000	0	99.4	45-160	0			
Carbon tetrachloride	986	30	1000	0	98.6	65-135	0			
Chlorobenzene	967	30	1000	0	96.7	75-125	0			
Chloroethane	984.5	100	1000	0	98.4	40-155	0			
Chloroform	912	30	1000	0	91.2	70-125	0			
Chloromethane	1120	100	1000	0	112	50-130	0			
cis-1,2-Dichloroethene	943.5	30	1000	0	94.4	65-125	0			
cis-1,3-Dichloropropene	940	30	1000	0	94	70-125	0			
Dibromochloromethane	891.5	30	1000	0	89.2	65-135	0			
Dichlorodifluoromethane	1050	30	1000	0	105	35-135	0			
Ethylbenzene	1016	30	1000	0	102	75-125	0			
Isopropylbenzene	1104	30	1000	0	110	75-130	0			
m,p-Xylene	2078	60	2000	0	104	80-125	0			
Methyl tert-butyl ether	1024	30	1000	0	102	75-125	0			
Methylene chloride	1027	30	1000	0	103	55-145	0			
o-Xylene	1034	30	1000	0	103	75-125	0			
Styrene	1077	30	1000	0	108	75-125	0			
Tetrachloroethene	1350	30	1000	0	135	64-140	0			
Toluene	879	30	1000	0	87.9	70-125	0			
trans-1,2-Dichloroethene	965	30	1000	0	96.5	65-135	0			
trans-1,3-Dichloropropene	912.5	30	1000	0	91.2	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	891	30	1000	0	89.1	75-125	0
Trichlorofluoromethane	1038	30	1000	0	104	25-185	0
Vinyl chloride	1004	30	1000	0	100	60-125	0
Xylenes, Total	3112	90	3000	0	104	75-125	0
Surr: 1,2-Dichloroethane-d4	*955*	0	*1000*	0	*95.5*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1045*	0	*1000*	0	*104*	*70-130*	0
Surr: Dibromofluoromethane	*971*	0	*1000*	0	*97.1*	*70-130*	0
Surr: Toluene-d8	*995.5*	0	*1000*	0	*99.6*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 01:13 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2252823** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1011	30	1000	0	101	70-135	0			
1,1,2,2-Tetrachloroethane	940.5	30	1000	0	94	55-130	0			
1,1,2-Trichloroethane	909	30	1000	0	90.9	60-125	0			
1,1-Dichloroethane	1044	30	1000	0	104	75-125	0			
1,1-Dichloroethene	1056	30	1000	0	106	65-135	0			
1,2,4-Trichlorobenzene	958.5	30	1000	0	95.8	65-130	0			
1,2-Dibromo-3-chloropropane	912	30	1000	0	91.2	40-135	0			
1,2-Dibromoethane	975.5	30	1000	0	97.6	70-125	0			
1,2-Dichlorobenzene	970	30	1000	0	97	75-120	0			
1,2-Dichloroethane	980	30	1000	0	98	70-135	0			
1,2-Dichloropropane	1060	30	1000	0	106	70-120	0			
1,3-Dichlorobenzene	987	30	1000	0	98.7	70-125	0			
1,4-Dichlorobenzene	956.5	30	1000	0	95.6	70-125	0			
2-Butanone	1027	200	1000	0	103	30-160	0			
2-Hexanone	1014	30	1000	0	101	45-145	0			
4-Methyl-2-pentanone	1392	30	1000	0	139	45-145	0			
Acetone	1060	100	1000	0	106	20-160	0			
Benzene	1024	30	1000	0	102	75-125	0			
Bromodichloromethane	1020	30	1000	0	102	70-130	0			
Bromoform	967	30	1000	0	96.7	55-135	0			
Bromomethane	1348	75	1000	0	135	30-160	0			
Carbon disulfide	1062	30	1000	0	106	45-160	0			
Carbon tetrachloride	1020	30	1000	0	102	65-135	0			
Chlorobenzene	1019	30	1000	0	102	75-125	0			
Chloroethane	1096	100	1000	0	110	40-155	0			
Chloroform	1016	30	1000	0	102	70-125	0			
Chloromethane	1010	100	1000	0	101	50-130	0			
cis-1,2-Dichloroethene	1030	30	1000	0	103	65-125	0			
cis-1,3-Dichloropropene	1044	30	1000	0	104	70-125	0			
Dibromochloromethane	950.5	30	1000	0	95	65-135	0			
Dichlorodifluoromethane	829.5	30	1000	0	83	35-135	0			
Ethylbenzene	997.5	30	1000	0	99.8	75-125	0			
Isopropylbenzene	1014	30	1000	0	101	75-130	0			
m,p-Xylene	2000	60	2000	0	100	80-125	0			
Methyl tert-butyl ether	1176	30	1000	0	118	75-125	0			
Methylene chloride	955.5	30	1000	0	95.6	55-145	0			
o-Xylene	1012	30	1000	0	101	75-125	0			
Styrene	1032	30	1000	0	103	75-125	0			
Tetrachloroethene	997	30	1000	0	99.7	64-140	0			
Toluene	998.5	30	1000	0	99.8	70-125	0			
trans-1,2-Dichloroethene	1068	30	1000	0	107	65-135	0			
trans-1,3-Dichloropropene	1028	30	1000	0	103	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	972.5	30	1000	0	97.2	75-125	0
Trichlorofluoromethane	1062	30	1000	0	106	25-185	0
Vinyl chloride	1112	30	1000	0	111	60-125	0
Xylenes, Total	3012	90	3000	0	100	75-125	0
Surr: 1,2-Dichloroethane-d4	*952.5*	0	*1000*	0	*95.2*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1008*	0	*1000*	0	*101*	*70-130*	0
Surr: Dibromofluoromethane	*982*	0	*1000*	0	*98.2*	*70-130*	0
Surr: Toluene-d8	*960*	0	*1000*	0	*96*	*70-130*	0

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 01:37 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2253036** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	18280	2,500	25000	0	73.1	30-130	0			
Surr: Toluene-d8	*887.5*	0	*1000*	0	*88.8*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 01:29 PM**

Client ID: Run ID: **VMS5_130328A** SeqNo: **2253429** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	967	30	1000	0	96.7	70-135	0			
1,1,2,2-Tetrachloroethane	879	30	1000	0	87.9	55-130	0			
1,1,2-Trichloroethane	907	30	1000	0	90.7	60-125	0			
1,1-Dichloroethane	1023	30	1000	0	102	75-125	0			
1,1-Dichloroethene	1118	30	1000	0	112	65-135	0			
1,2,4-Trichlorobenzene	1052	30	1000	0	105	65-130	0			
1,2-Dibromo-3-chloropropane	867.5	30	1000	0	86.8	40-135	0			
1,2-Dibromoethane	958	30	1000	0	95.8	70-125	0			
1,2-Dichlorobenzene	941	30	1000	0	94.1	75-120	0			
1,2-Dichloroethane	976	30	1000	0	97.6	70-135	0			
1,2-Dichloropropane	1025	30	1000	0	102	70-120	0			
1,3-Dichlorobenzene	962	30	1000	0	96.2	70-125	0			
1,4-Dichlorobenzene	918.5	30	1000	0	91.8	70-125	0			
2-Butanone	1106	200	1000	0	111	30-160	0			
2-Hexanone	962.5	30	1000	0	96.2	45-145	0			
4-Methyl-2-pentanone	1243	30	1000	0	124	45-145	0			
Acetone	1294	100	1000	0	129	20-160	0			
Benzene	969.5	30	1000	0	97	75-125	0			
Bromodichloromethane	966.5	30	1000	0	96.6	70-130	0			
Bromoform	901.5	30	1000	0	90.2	55-135	0			
Bromomethane	1293	75	1000	0	129	30-160	0			
Carbon disulfide	1116	30	1000	0	112	45-160	0			
Carbon tetrachloride	970	30	1000	0	97	65-135	0			
Chlorobenzene	938.5	30	1000	0	93.8	75-125	0			
Chloroethane	1102	100	1000	0	110	40-155	0			
Chloroform	973	30	1000	0	97.3	70-125	0			
Chloromethane	1034	100	1000	0	103	50-130	0			
cis-1,2-Dichloroethene	1012	30	1000	0	101	65-125	0			
cis-1,3-Dichloropropene	1023	30	1000	0	102	70-125	0			
Dibromochloromethane	910	30	1000	0	91	65-135	0			
Dichlorodifluoromethane	954.5	30	1000	0	95.4	35-135	0			
Ethylbenzene	882	30	1000	0	88.2	75-125	0			
Isopropylbenzene	874.5	30	1000	0	87.4	75-130	0			
m,p-Xylene	1764	60	2000	0	88.2	80-125	0			
Methyl tert-butyl ether	1093	30	1000	0	109	75-125	0			
Methylene chloride	981	30	1000	0	98.1	55-145	0			
o-Xylene	907	30	1000	0	90.7	75-125	0			
Styrene	964.5	30	1000	0	96.4	75-125	0			
Tetrachloroethene	845	30	1000	0	84.5	64-140	0			
Toluene	920.5	30	1000	0	92	70-125	0			
trans-1,2-Dichloroethene	1030	30	1000	0	103	65-135	0			
trans-1,3-Dichloropropene	993	30	1000	0	99.3	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	902	30	1000	0	90.2	75-125	0
Trichlorofluoromethane	1094	30	1000	0	109	25-185	0
Vinyl chloride	1182	30	1000	0	118	60-125	0
Xylenes, Total	2672	90	3000	0	89	75-125	0
Surr: 1,2-Dichloroethane-d4	*980.5*	0	*1000*	0	*98*	*70-130*	0
Surr: 4-Bromofluorobenzene	*983.5*	0	*1000*	0	*98.4*	*70-130*	0
Surr: Dibromofluoromethane	*960.5*	0	*1000*	0	*96*	*70-130*	0
Surr: Toluene-d8	*964*	0	*1000*	0	*96.4*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/28/2013 09:18 AM**

Client ID: Run ID: **VMS6_130328A** SeqNo: **2253525** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	960.5	30	1000	0	96	70-135	0			
1,1,2,2-Tetrachloroethane	813.5	30	1000	0	81.4	55-130	0			
1,1,2-Trichloroethane	808.5	30	1000	0	80.8	60-125	0			
1,1-Dichloroethane	839	30	1000	0	83.9	75-125	0			
1,1-Dichloroethene	965.5	30	1000	0	96.6	65-135	0			
1,2,4-Trichlorobenzene	923.5	30	1000	0	92.4	65-130	0			
1,2-Dibromo-3-chloropropane	750.5	30	1000	0	75	40-135	0			
1,2-Dibromoethane	881	30	1000	0	88.1	70-125	0			
1,2-Dichlorobenzene	890.5	30	1000	0	89	75-120	0			
1,2-Dichloroethane	909.5	30	1000	0	91	70-135	0			
1,2-Dichloropropane	789.5	30	1000	0	79	70-120	0			
1,3-Dichlorobenzene	867.5	30	1000	0	86.8	70-125	0			
1,4-Dichlorobenzene	885	30	1000	0	88.5	70-125	0			
2-Butanone	946	200	1000	0	94.6	30-160	0			
2-Hexanone	917.5	30	1000	0	91.8	45-145	0			
4-Methyl-2-pentanone	1153	30	1000	0	115	45-145	0			
Acetone	802.5	100	1000	0	80.2	20-160	0			
Benzene	945	30	1000	0	94.5	75-125	0			
Bromodichloromethane	834.5	30	1000	0	83.4	70-130	0			
Bromoform	776	30	1000	0	77.6	55-135	0			
Bromomethane	1538	75	1000	0	154	30-160	0			
Carbon disulfide	992	30	1000	0	99.2	45-160	0			
Carbon tetrachloride	1008	30	1000	0	101	65-135	0			
Chlorobenzene	902	30	1000	0	90.2	75-125	0			
Chloroethane	916.5	100	1000	0	91.6	40-155	0			
Chloroform	842	30	1000	0	84.2	70-125	0			
Chloromethane	907	100	1000	0	90.7	50-130	0			
cis-1,2-Dichloroethene	849	30	1000	0	84.9	65-125	0			
cis-1,3-Dichloropropene	843.5	30	1000	0	84.4	70-125	0			
Dibromochloromethane	810	30	1000	0	81	65-135	0			
Dichlorodifluoromethane	1037	30	1000	0	104	35-135	0			
Ethylbenzene	909.5	30	1000	0	91	75-125	0			
Isopropylbenzene	931.5	30	1000	0	93.2	75-130	0			
m,p-Xylene	1800	60	2000	0	90	80-125	0			
Methyl tert-butyl ether	932	30	1000	0	93.2	75-125	0			
Methylene chloride	904.5	30	1000	0	90.4	55-145	0			
o-Xylene	890	30	1000	0	89	75-125	0			
Styrene	897	30	1000	0	89.7	75-125	0			
Tetrachloroethene	986	30	1000	0	98.6	64-140	0			
Toluene	902.5	30	1000	0	90.2	70-125	0			
trans-1,2-Dichloroethene	911	30	1000	0	91.1	65-135	0			
trans-1,3-Dichloropropene	839	30	1000	0	83.9	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	913.5	30	1000	0	91.4	75-125	0
Trichlorofluoromethane	1076	30	1000	0	108	25-185	0
Vinyl chloride	981.5	30	1000	0	98.2	60-125	0
Xylenes, Total	2690	90	3000	0	89.7	75-125	0
Surr: 1,2-Dichloroethane-d4	*936*	0	*1000*	0	*93.6*	*70-130*	0
Surr: 4-Bromofluorobenzene	*968.5*	0	*1000*	0	*96.8*	*70-130*	0
Surr: Dibromofluoromethane	*971.5*	0	*1000*	0	*97.2*	*70-130*	0
Surr: Toluene-d8	*950.5*	0	*1000*	0	*95*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **LCS-47228-47228** Units: **µg/Kg** Analysis Date: **3/29/2013 09:48 AM**

Client ID: Run ID: **VMS6_130329A** SeqNo: **2255700** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1026	30	1000	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	852.5	30	1000	0	85.2	55-130	0			
1,1,2-Trichloroethane	844	30	1000	0	84.4	60-125	0			
1,1-Dichloroethane	896.5	30	1000	0	89.6	75-125	0			
1,1-Dichloroethene	1051	30	1000	0	105	65-135	0			
1,2,4-Trichlorobenzene	982	30	1000	0	98.2	65-130	0			
1,2-Dibromo-3-chloropropane	753	30	1000	0	75.3	40-135	0			
1,2-Dibromoethane	947.5	30	1000	0	94.8	70-125	0			
1,2-Dichlorobenzene	953	30	1000	0	95.3	75-120	0			
1,2-Dichloroethane	967	30	1000	0	96.7	70-135	0			
1,2-Dichloropropane	849	30	1000	0	84.9	70-120	0			
1,3-Dichlorobenzene	943.5	30	1000	0	94.4	70-125	0			
1,4-Dichlorobenzene	961.5	30	1000	0	96.2	70-125	0			
2-Butanone	981	200	1000	0	98.1	30-160	0			
2-Hexanone	947.5	30	1000	0	94.8	45-145	0			
4-Methyl-2-pentanone	1209	30	1000	0	121	45-145	0			
Acetone	841.5	100	1000	0	84.2	20-160	0			
Benzene	1018	30	1000	0	102	75-125	0			
Bromodichloromethane	878.5	30	1000	0	87.8	70-130	0			
Bromoform	853	30	1000	0	85.3	55-135	0			
Bromomethane	1345	75	1000	0	134	30-160	0			
Carbon disulfide	1074	30	1000	0	107	45-160	0			
Carbon tetrachloride	1090	30	1000	0	109	65-135	0			
Chlorobenzene	972.5	30	1000	0	97.2	75-125	0			
Chloroethane	957	100	1000	0	95.7	40-155	0			
Chloroform	920	30	1000	0	92	70-125	0			
Chloromethane	920.5	100	1000	0	92	50-130	0			
cis-1,2-Dichloroethene	906	30	1000	0	90.6	65-125	0			
cis-1,3-Dichloropropene	907.5	30	1000	0	90.8	70-125	0			
Dibromochloromethane	866.5	30	1000	0	86.6	65-135	0			
Dichlorodifluoromethane	1103	30	1000	0	110	35-135	0			
Ethylbenzene	976.5	30	1000	0	97.6	75-125	0			
Isopropylbenzene	1006	30	1000	0	101	75-130	0			
m,p-Xylene	1941	60	2000	0	97	80-125	0			
Methyl tert-butyl ether	1026	30	1000	0	103	75-125	0			
Methylene chloride	1004	30	1000	0	100	55-145	0			
o-Xylene	951.5	30	1000	0	95.2	75-125	0			
Styrene	969.5	30	1000	0	97	75-125	0			
Tetrachloroethene	1060	30	1000	0	106	64-140	0			
Toluene	972	30	1000	0	97.2	70-125	0			
trans-1,2-Dichloroethene	960	30	1000	0	96	65-135	0			
trans-1,3-Dichloropropene	895	30	1000	0	89.5	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	999	30	1000	0	99.9	75-125	0
Trichlorofluoromethane	1147	30	1000	0	115	25-185	0
Vinyl chloride	1052	30	1000	0	105	60-125	0
Xylenes, Total	2892	90	3000	0	96.4	75-125	0
Surr: 1,2-Dichloroethane-d4	*917*	0	*1000*	0	*91.7*	*70-130*	0
Surr: 4-Bromofluorobenzene	*966*	0	*1000*	0	*96.6*	*70-130*	0
Surr: Dibromofluoromethane	*963*	0	*1000*	0	*96.3*	*70-130*	0
Surr: Toluene-d8	*956.5*	0	*1000*	0	*95.6*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MS Sample ID: **1303834-06A MS** Units: **µg/Kg** Analysis Date: **3/28/2013 09:44 AM**

Client ID: **SB-4 (6-8')** Run ID: **VMS5_130327B** SeqNo: **2252825** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	921.5	30	1000	0	92.2	70-135	0			
1,1,2,2-Tetrachloroethane	888.5	30	1000	0	88.8	55-130	0			
1,1,2-Trichloroethane	882	30	1000	0	88.2	60-125	0			
1,1-Dichloroethane	976	30	1000	0	97.6	75-125	0			
1,1-Dichloroethene	976.5	30	1000	0	97.6	65-135	0			
1,2,4-Trichlorobenzene	868	30	1000	0	86.8	65-130	0			
1,2-Dibromo-3-chloropropane	807.5	30	1000	0	80.8	40-135	0			
1,2-Dibromoethane	906	30	1000	0	90.6	70-125	0			
1,2-Dichlorobenzene	909	30	1000	0	90.9	75-120	0			
1,2-Dichloroethane	908.5	30	1000	0	90.8	70-135	0			
1,2-Dichloropropane	967.5	30	1000	0	96.8	70-120	0			
1,3-Dichlorobenzene	906	30	1000	0	90.6	70-125	0			
1,4-Dichlorobenzene	869.5	30	1000	0	87	70-125	0			
2-Butanone	1006	200	1000	0	101	30-160	0			
2-Hexanone	902	30	1000	0	90.2	45-145	0			
4-Methyl-2-pentanone	1264	30	1000	0	126	45-145	0			
Acetone	1090	100	1000	0	109	20-160	0			
Benzene	940	30	1000	0	94	75-125	0			
Bromodichloromethane	900.5	30	1000	0	90	70-130	0			
Bromoform	828.5	30	1000	0	82.8	55-135	0			
Bromomethane	968.5	75	1000	0	96.8	30-160	0			
Carbon disulfide	977.5	30	1000	0	97.8	45-160	0			
Carbon tetrachloride	910.5	30	1000	0	91	65-135	0			
Chlorobenzene	935.5	30	1000	0	93.6	75-125	0			
Chloroethane	932	100	1000	0	93.2	40-155	0			
Chloroform	944.5	30	1000	0	94.4	70-125	0			
Chloromethane	950	100	1000	0	95	50-130	0			
cis-1,2-Dichloroethene	938.5	30	1000	0	93.8	65-125	0			
cis-1,3-Dichloropropene	893.5	30	1000	0	89.4	70-125	0			
Dibromochloromethane	824.5	30	1000	0	82.4	65-135	0			
Dichlorodifluoromethane	816.5	30	1000	0	81.6	35-135	0			
Ethylbenzene	911	30	1000	0	91.1	75-125	0			
Isopropylbenzene	915	30	1000	0	91.5	75-130	0			
m,p-Xylene	1896	60	2000	0	94.8	80-125	0			
Methyl tert-butyl ether	1012	30	1000	0	101	75-125	0			
Methylene chloride	913	30	1000	0	91.3	55-145	0			
o-Xylene	939.5	30	1000	0	94	75-125	0			
Styrene	954	30	1000	0	95.4	75-125	0			
Tetrachloroethene	889.5	30	1000	0	89	64-140	0			
Toluene	1042	30	1000	0	104	70-125	0			
trans-1,2-Dichloroethene	973.5	30	1000	0	97.4	65-135	0			
trans-1,3-Dichloropropene	938.5	30	1000	0	93.8	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	883	30	1000	0	88.3	75-125	0
Trichlorofluoromethane	983	30	1000	0	98.3	25-185	0
Vinyl chloride	1048	30	1000	0	105	60-125	0
Xylenes, Total	2836	90	3000	0	94.5	75-125	0
Surr: 1,2-Dichloroethane-d4	*951*	0	*1000*	0	*95.1*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1010*	0	*1000*	0	*101*	*70-130*	0
Surr: Dibromofluoromethane	*939.5*	0	*1000*	0	*94*	*70-130*	0
Surr: Toluene-d8	*975.5*	0	*1000*	0	*97.6*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

MSD Sample ID: **1303834-06A MSD** Units: **µg/Kg** Analysis Date: **3/28/2013 10:07 AM**

Client ID: **SB-4 (6-8')** Run ID: **VMS5_130327B** SeqNo: **2252826** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	943.5	30	1000	0	94.4	70-135	921.5	2.36	30	
1,1,2,2-Tetrachloroethane	858	30	1000	0	85.8	55-130	888.5	3.49	30	
1,1,2-Trichloroethane	863	30	1000	0	86.3	60-125	882	2.18	30	
1,1-Dichloroethane	973	30	1000	0	97.3	75-125	976	0.308	30	
1,1-Dichloroethene	971	30	1000	0	97.1	65-135	976.5	0.565	30	
1,2,4-Trichlorobenzene	968	30	1000	0	96.8	65-130	868	10.9	30	
1,2-Dibromo-3-chloropropane	851	30	1000	0	85.1	40-135	807.5	5.25	30	
1,2-Dibromoethane	910	30	1000	0	91	70-125	906	0.441	30	
1,2-Dichlorobenzene	970	30	1000	0	97	75-120	909	6.49	30	
1,2-Dichloroethane	924.5	30	1000	0	92.4	70-135	908.5	1.75	30	
1,2-Dichloropropane	1010	30	1000	0	101	70-120	967.5	4.3	30	
1,3-Dichlorobenzene	946	30	1000	0	94.6	70-125	906	4.32	30	
1,4-Dichlorobenzene	906.5	30	1000	0	90.6	70-125	869.5	4.17	30	
2-Butanone	935	200	1000	0	93.5	30-160	1006	7.37	30	
2-Hexanone	905	30	1000	0	90.5	45-145	902	0.332	30	
4-Methyl-2-pentanone	1254	30	1000	0	125	45-145	1264	0.754	30	
Acetone	1162	100	1000	0	116	20-160	1090	6.4	30	
Benzene	966.5	30	1000	0	96.6	75-125	940	2.78	30	
Bromodichloromethane	947	30	1000	0	94.7	70-130	900.5	5.03	30	
Bromoform	818	30	1000	0	81.8	55-135	828.5	1.28	30	
Bromomethane	872.5	75	1000	0	87.2	30-160	968.5	10.4	30	
Carbon disulfide	932	30	1000	0	93.2	45-160	977.5	4.77	30	
Carbon tetrachloride	937	30	1000	0	93.7	65-135	910.5	2.87	30	
Chlorobenzene	939	30	1000	0	93.9	75-125	935.5	0.373	30	
Chloroethane	855	100	1000	0	85.5	40-155	932	8.62	30	
Chloroform	960.5	30	1000	0	96	70-125	944.5	1.68	30	
Chloromethane	935	100	1000	0	93.5	50-130	950	1.59	30	
cis-1,2-Dichloroethene	952	30	1000	0	95.2	65-125	938.5	1.43	30	
cis-1,3-Dichloropropene	944.5	30	1000	0	94.4	70-125	893.5	5.55	30	
Dibromochloromethane	830.5	30	1000	0	83	65-135	824.5	0.725	30	
Dichlorodifluoromethane	806.5	30	1000	0	80.6	35-135	816.5	1.23	30	
Ethylbenzene	938	30	1000	0	93.8	75-125	911	2.92	30	
Isopropylbenzene	977	30	1000	0	97.7	75-130	915	6.55	30	
m,p-Xylene	1936	60	2000	0	96.8	80-125	1896	2.06	30	
Methyl tert-butyl ether	1042	30	1000	0	104	75-125	1012	2.87	30	
Methylene chloride	921.5	30	1000	0	92.2	55-145	913	0.927	30	
o-Xylene	948.5	30	1000	0	94.8	75-125	939.5	0.953	30	
Styrene	964.5	30	1000	0	96.4	75-125	954	1.09	30	
Tetrachloroethene	894.5	30	1000	0	89.4	64-140	889.5	0.561	30	
Toluene	1029	30	1000	0	103	70-125	1042	1.26	30	
trans-1,2-Dichloroethene	965.5	30	1000	0	96.6	65-135	973.5	0.825	30	
trans-1,3-Dichloropropene	916.5	30	1000	0	91.6	65-125	938.5	2.37	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **47228** Instrument ID **VMS8** Method: **SW8260**

Trichloroethene	903.5	30	1000	0	90.4	75-125	883	2.29	30
Trichlorofluoromethane	968	30	1000	0	96.8	25-185	983	1.54	30
Vinyl chloride	990.5	30	1000	0	99	60-125	1048	5.59	30
Xylenes, Total	2884	90	3000	0	96.2	75-125	2836	1.7	30
Surr: 1,2-Dichloroethane-d4	*967.5*	0	*1000*	0	*96.8*	*70-130*	951	*1.72*	*30*
Surr: 4-Bromofluorobenzene	*995.5*	0	*1000*	0	*99.6*	*70-130*	1010	*1.4*	*30*
Surr: Dibromofluoromethane	*977.5*	0	*1000*	0	*97.8*	*70-130*	939.5	*3.96*	*30*
Surr: Toluene-d8	*960*	0	*1000*	0	*96*	*70-130*	975.5	*1.6*	*30*

The following samples were analyzed in this batch:

1303834-01A	1303834-02A	1303834-03A
1303834-04A	1303834-06A	1303834-07A
1303834-08A	1303834-09A	1303834-10A
1303834-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-130327-R117960** Units: **µg/Kg** Analysis Date: **3/27/2013 11:30 AM**

Client ID: Run ID: **VMS7_130327A** SeqNo: **2251329** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.52	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	0.32	5.0								J
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	1.31	5.0								J
o-Xylene	U	2.5								
Styrene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	10					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	5.0					
Xylenes, Total	U	5.0					
Surr: 1,2-Dichloroethane-d4	*21.46*	0	*20*	0	*107*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.81*	0	*20*	0	*104*	*75-120*	0
Surr: Dibromofluoromethane	*20.74*	0	*20*	0	*104*	*85-115*	0
Surr: Toluene-d8	*20.12*	0	*20*	0	*101*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS1-130327-R117960** Units: **µg/Kg** Analysis Date: **3/27/2013 10:21 AM**

Client ID: Run ID: **VMS7_130327A** SeqNo: **2251328** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.5	5.0	20	0	92.5	70-135	0			
1,1,2,2-Tetrachloroethane	19.01	5.0	20	0	95	55-130	0			
1,1,2-Trichloroethane	17.38	5.0	20	0	86.9	60-125	0			
1,1-Dichloroethane	17.85	5.0	20	0	89.2	75-125	0			
1,1-Dichloroethene	18.67	5.0	20	0	93.4	65-135	0			
1,2,4-Trichlorobenzene	18.46	5.0	20	0	92.3	65-130	0			
1,2-Dibromo-3-chloropropane	18.27	5.0	20	0	91.4	40-135	0			
1,2-Dibromoethane	18.08	5.0	20	0	90.4	70-125	0			
1,2-Dichlorobenzene	18.35	5.0	20	0	91.8	75-120	0			
1,2-Dichloroethane	18.65	5.0	20	0	93.2	70-135	0			
1,2-Dichloropropane	18.28	5.0	20	0	91.4	70-120	0			
1,3-Dichlorobenzene	18.45	5.0	20	0	92.2	70-125	0			
1,4-Dichlorobenzene	18.3	5.0	20	0	91.5	70-125	0			
2-Butanone	21.72	10	20	0	109	30-160	0			
2-Hexanone	22.35	5.0	20	0	112	45-145	0			
4-Methyl-2-pentanone	29.95	5.0	20	0	150	45-145	0			S
Acetone	23.27	10	20	0	116	20-160	0			
Benzene	18.83	5.0	20	0	94.2	75-125	0			
Bromodichloromethane	19.03	5.0	20	0	95.2	70-130	0			
Bromoform	18.11	5.0	20	0	90.6	55-135	0			
Bromomethane	19.15	10	20	0	95.8	30-160	0			
Carbon disulfide	19.2	5.0	20	0	96	45-160	0			
Carbon tetrachloride	20.14	5.0	20	0	101	65-135	0			
Chlorobenzene	18.13	5.0	20	0	90.6	75-125	0			
Chloroethane	18.2	5.0	20	0	91	40-155	0			
Chloroform	18.36	5.0	20	0	91.8	70-125	0			
Chloromethane	19.56	10	20	0	97.8	50-130	0			
cis-1,2-Dichloroethene	19.5	5.0	20	0	97.5	65-125	0			
cis-1,3-Dichloropropene	18.22	5.0	20	0	91.1	70-125	0			
Dibromochloromethane	18.4	5.0	20	0	92	65-135	0			
Dichlorodifluoromethane	15.56	10	20	0	77.8	35-135	0			
Ethylbenzene	18.84	5.0	20	0	94.2	75-125	0			
Isopropylbenzene	18.57	5.0	20	0	92.8	75-130	0			
m,p-Xylene	37.08	2.5	40	0	92.7	80-125	0			
Methyl tert-butyl ether	20.7	5.0	20	0	104	75-125	0			
Methylene chloride	19.34	5.0	20	0	96.7	55-140	0			
o-Xylene	18.5	2.5	20	0	92.5	75-125	0			
Styrene	18.3	5.0	20	0	91.5	75-125	0			
Tetrachloroethene	18.04	5.0	20	0	90.2	65-140	0			
Toluene	18.4	5.0	20	0	92	70-125	0			
trans-1,2-Dichloroethene	18.7	5.0	20	0	93.5	65-135	0			
trans-1,3-Dichloropropene	19.07	10	20	0	95.4	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	17.35	5.0	20	0	86.8	75-125	0
Trichlorofluoromethane	17.22	5.0	20	0	86.1	25-185	0
Vinyl chloride	18.27	5.0	20	0	91.4	60-125	0
Xylenes, Total	55.58	5.0	60	0	92.6	75-125	0
Surr: 1,2-Dichloroethane-d4	*21.63*	0	*20*	0	*108*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.31*	0	*20*	0	*102*	*75-120*	0
Surr: Dibromofluoromethane	*20.72*	0	*20*	0	*104*	*85-115*	0
Surr: Toluene-d8	*20*	0	*20*	0	*100*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1303646-44A MS** Units: **µg/Kg** Analysis Date: **3/27/2013 06:55 PM**

Client ID: Run ID: **VMS7_130327A** SeqNo: **2252094** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	14.71	5.0	20	0	73.6	70-135	0			
1,1,2,2-Tetrachloroethane	9.08	5.0	20	0	45.4	55-130	0			S
1,1,2-Trichloroethane	11.26	5.0	20	0	56.3	60-125	0			S
1,1-Dichloroethane	14.76	5.0	20	0	73.8	75-125	0			S
1,1-Dichloroethene	16.48	5.0	20	0	82.4	65-135	0			
1,2,4-Trichlorobenzene	3.14	5.0	20	0	15.7	65-130	0			JS
1,2-Dibromo-3-chloropropane	6.65	5.0	20	0	33.2	40-135	0			S
1,2-Dibromoethane	9.87	5.0	20	0	49.4	70-125	0			S
1,2-Dichlorobenzene	5.09	5.0	20	0	25.4	75-120	0			S
1,2-Dichloroethane	13.42	5.0	20	0	67.1	70-135	0			S
1,2-Dichloropropane	12.79	5.0	20	0	64	70-120	0			S
1,3-Dichlorobenzene	5.65	5.0	20	0	28.2	70-125	0			S
1,4-Dichlorobenzene	5.32	5.0	20	0	26.6	70-125	0			S
2-Butanone	36.85	10	20	28.19	43.3	30-160	0			
2-Hexanone	20.1	5.0	20	0	100	45-145	0			
4-Methyl-2-pentanone	18.97	5.0	20	0	94.8	45-145	0			
Acetone	55.12	10	20	80.93	-129	20-160	0			SO
Benzene	15.96	5.0	20	0.6969	76.3	75-125	0			
Bromodichloromethane	11.48	5.0	20	0	57.4	70-130	0			S
Bromoform	6.91	5.0	20	0	34.6	55-135	0			S
Bromomethane	3.67	10	20	0	18.4	30-160	0			JS
Carbon disulfide	16.53	5.0	20	8.803	38.6	45-160	0			S
Carbon tetrachloride	14.78	5.0	20	0	73.9	65-135	0			
Chlorobenzene	8.93	5.0	20	0	44.6	75-125	0			S
Chloroethane	19.45	5.0	20	0	97.2	40-155	0			
Chloroform	14.75	5.0	20	0.6236	70.6	70-125	0			
Chloromethane	11.11	10	20	0	55.6	50-130	0			
cis-1,2-Dichloroethene	15.22	5.0	20	0	76.1	65-125	0			
cis-1,3-Dichloropropene	9.83	5.0	20	0	49.2	70-125	0			S
Dibromochloromethane	8.84	5.0	20	0	44.2	65-135	0			S
Dichlorodifluoromethane	16.18	10	20	0	80.9	35-135	0			
Ethylbenzene	10.1	5.0	20	0.3668	48.7	75-125	0			S
Isopropylbenzene	8.8	5.0	20	0	44	75-130	0			S
m,p-Xylene	20.66	2.5	40	0.7244	49.8	80-125	0			S
Methyl tert-butyl ether	16.51	5.0	20	0	82.6	75-125	0			
Methylene chloride	17.41	5.0	20	0.5869	84.1	55-140	0			
o-Xylene	9.17	2.5	20	0.3851	43.9	75-125	0			S
Styrene	7.26	5.0	20	0	36.3	75-125	0			S
Tetrachloroethene	10.99	5.0	20	0	55	65-140	0			S
Toluene	15.79	5.0	20	1.88	69.6	70-125	0			S
trans-1,2-Dichloroethene	15.08	5.0	20	0	75.4	65-135	0			
trans-1,3-Dichloropropene	9.8	10	20	0	49	65-125	0			JS

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	12.18	5.0	20	0	60.9	75-125	0	S
Trichlorofluoromethane	16.25	5.0	20	0	81.2	25-185	0	
Vinyl chloride	12.99	5.0	20	0	65	60-125	0	
Xylenes, Total	29.83	5.0	60	1.11	47.9	75-125	0	S
Surr: 1,2-Dichloroethane-d4	*22.9*	0	*20*	0	*114*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*21.44*	0	*20*	0	*107*	*75-120*	0	
Surr: Dibromofluoromethane	*21.63*	0	*20*	0	*108*	*85-115*	0	
Surr: Toluene-d8	*21.53*	0	*20*	0	*108*	*85-120*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1303646-44A MSD** Units: **µg/Kg** Analysis Date: **3/27/2013 07:22 PM**

Client ID: Run ID: **VMS7_130327A** SeqNo: **2252095** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.25	5.0	20	0	81.2	70-135	14.71	9.95	30	
1,1,2,2-Tetrachloroethane	10.06	5.0	20	0	50.3	55-130	9.08	10.2	30	S
1,1,2-Trichloroethane	12.15	5.0	20	0	60.8	60-125	11.26	7.6	30	
1,1-Dichloroethane	15.86	5.0	20	0	79.3	75-125	14.76	7.18	30	
1,1-Dichloroethene	18.83	5.0	20	0	94.2	65-135	16.48	13.3	30	
1,2,4-Trichlorobenzene	2.96	5.0	20	0	14.8	65-130	3.14	0	30	JS
1,2-Dibromo-3-chloropropane	6.6	5.0	20	0	33	40-135	6.65	0.755	30	S
1,2-Dibromoethane	10.69	5.0	20	0	53.4	70-125	9.87	7.98	30	S
1,2-Dichlorobenzene	5.18	5.0	20	0	25.9	75-120	5.09	1.75	30	S
1,2-Dichloroethane	14.31	5.0	20	0	71.6	70-135	13.42	6.42	30	
1,2-Dichloropropane	13.97	5.0	20	0	69.8	70-120	12.79	8.82	30	S
1,3-Dichlorobenzene	5.69	5.0	20	0	28.4	70-125	5.65	0.705	30	S
1,4-Dichlorobenzene	5.52	5.0	20	0	27.6	70-125	5.32	3.69	30	S
2-Butanone	41.39	10	20	28.19	66	30-160	36.85	11.6	30	
2-Hexanone	23.06	5.0	20	0	115	45-145	20.1	13.7	30	
4-Methyl-2-pentanone	21.03	5.0	20	0	105	45-145	18.97	10.3	30	
Acetone	61.61	10	20	80.93	-96.6	20-160	55.12	11.1	30	SO
Benzene	17.25	5.0	20	0.6969	82.8	75-125	15.96	7.77	30	
Bromodichloromethane	12.04	5.0	20	0	60.2	70-130	11.48	4.76	30	S
Bromoform	6.36	5.0	20	0	31.8	55-135	6.91	8.29	30	S
Bromomethane	5.93	10	20	0	29.6	30-160	3.67	0	30	JS
Carbon disulfide	18.32	5.0	20	8.803	47.6	45-160	16.53	10.3	30	
Carbon tetrachloride	16.34	5.0	20	0	81.7	65-135	14.78	10	30	
Chlorobenzene	9.46	5.0	20	0	47.3	75-125	8.93	5.76	30	S
Chloroethane	22.26	5.0	20	0	111	40-155	19.45	13.5	30	
Chloroform	15.77	5.0	20	0.6236	75.7	70-125	14.75	6.68	30	
Chloromethane	18.14	10	20	0	90.7	50-130	11.11	48.1	30	R
cis-1,2-Dichloroethene	16.27	5.0	20	0	81.4	65-125	15.22	6.67	30	
cis-1,3-Dichloropropene	9.82	5.0	20	0	49.1	70-125	9.83	0.102	30	S
Dibromochloromethane	8.69	5.0	20	0	43.4	65-135	8.84	1.71	30	S
Dichlorodifluoromethane	19.27	10	20	0	96.4	35-135	16.18	17.4	30	
Ethylbenzene	10.98	5.0	20	0.3668	53.1	75-125	10.1	8.35	30	S
Isopropylbenzene	9.49	5.0	20	0	47.4	75-130	8.8	7.55	30	S
m,p-Xylene	22.15	2.5	40	0.7244	53.6	80-125	20.66	6.96	30	S
Methyl tert-butyl ether	14.27	5.0	20	0	71.4	75-125	16.51	14.6	30	S
Methylene chloride	19.01	5.0	20	0.5869	92.1	55-140	17.41	8.79	30	
o-Xylene	9.82	2.5	20	0.3851	47.2	75-125	9.17	6.85	30	S
Styrene	7.54	5.0	20	0	37.7	75-125	7.26	3.78	30	S
Tetrachloroethene	11.72	5.0	20	0	58.6	65-140	10.99	6.43	30	S
Toluene	16.05	5.0	20	1.88	70.9	70-125	15.79	1.63	30	
trans-1,2-Dichloroethene	16.8	5.0	20	0	84	65-135	15.08	10.8	30	
trans-1,3-Dichloropropene	9.12	10	20	0	45.6	65-125	9.8	0	30	JS

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R117960** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	13.36	5.0	20	0	66.8	75-125	12.18	9.24	30	S
Trichlorofluoromethane	18.69	5.0	20	0	93.4	25-185	16.25	14	30	
Vinyl chloride	15.36	5.0	20	0	76.8	60-125	12.99	16.7	30	
Xylenes, Total	31.97	5.0	60	1.11	51.4	75-125	29.83	6.93	30	S
Surr: 1,2-Dichloroethane-d4	*23.25*	0	*20*	0	*116*	*70-120*	22.9	*1.52*	*30*	
Surr: 4-Bromofluorobenzene	*21.5*	0	*20*	0	*108*	*75-120*	21.44	*0.279*	*30*	
Surr: Dibromofluoromethane	*22.55*	0	*20*	0	*113*	*85-115*	21.63	*4.16*	*30*	
Surr: Toluene-d8	*21.4*	0	*20*	0	*107*	*85-120*	21.53	*0.606*	*30*	

The following samples were analyzed in this batch: 1303834-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **VBLKW2-130327-R118006A** Units: **µg/L** Analysis Date: **3/28/2013 02:00 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2252816** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
o-Xylene	U	1.0								
Styrene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Tetrachloroethene	U	2.0					
Toluene	U	1.0					
trans-1,2-Dichloroethene	U	1.0					
trans-1,3-Dichloropropene	U	1.0					
Trichloroethene	U	1.0					
Trichlorofluoromethane	U	1.0					
Vinyl chloride	U	1.0					
Xylenes, Total	U	3.0					
Surr: 1,2-Dichloroethane-d4	*19.22*	0	*20*	0	*96.1*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.96*	0	*20*	0	*99.8*	*75-120*	0
Surr: Dibromofluoromethane	*19.19*	0	*20*	0	*96*	*85-115*	0
Surr: Toluene-d8	*19.48*	0	*20*	0	*97.4*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **VLCSW2-130327-R118006A** Units: **µg/L** Analysis Date: **3/28/2013 01:13 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2252815** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.22	1.0	20	0	101	65-130	0			
1,1,2,2-Tetrachloroethane	18.81	1.0	20	0	94	65-130	0			
1,1,2-Trichloroethane	18.18	1.0	20	0	90.9	75-125	0			
1,1-Dichloroethane	20.87	1.0	20	0	104	70-135	0			
1,1-Dichloroethene	21.11	1.0	20	0	106	70-130	0			
1,2,4-Trichlorobenzene	19.17	1.0	20	0	95.8	65-135	0			
1,2-Dibromo-3-chloropropane	18.24	1.0	20	0	91.2	50-130	0			
1,2-Dibromoethane	19.51	1.0	20	0	97.6	80-120	0			
1,2-Dichlorobenzene	19.4	1.0	20	0	97	70-120	0			
1,2-Dichloroethane	19.6	1.0	20	0	98	70-130	0			
1,2-Dichloropropane	21.2	2.0	20	0	106	75-125	0			
1,3-Dichlorobenzene	19.74	2.0	20	0	98.7	75-125	0			
1,4-Dichlorobenzene	19.13	2.0	20	0	95.6	75-125	0			
2-Butanone	20.54	5.0	20	0	103	30-150	0			
2-Hexanone	20.28	5.0	20	0	101	55-130	0			
4-Methyl-2-pentanone	27.84	5.0	20	0	139	60-135	0			S
Acetone	21.21	20	20	0	106	40-140	0			
Benzene	20.48	1.0	20	0	102	80-120	0			
Bromodichloromethane	20.39	1.0	20	0	102	75-120	0			
Bromoform	19.34	1.0	20	0	96.7	70-130	0			
Bromomethane	26.96	1.0	20	0	135	30-145	0			
Carbon disulfide	21.25	2.5	20	0	106	35-165	0			
Carbon tetrachloride	20.39	1.0	20	0	102	65-140	0			
Chlorobenzene	20.38	1.0	20	0	102	80-120	0			
Chloroethane	21.93	1.0	20	0	110	60-135	0			
Chloroform	20.33	1.0	20	0	102	65-135	0			
Chloromethane	20.19	1.0	20	0	101	70-125	0			
cis-1,2-Dichloroethene	20.59	1.0	20	0	103	70-125	0			
cis-1,3-Dichloropropene	20.88	1.0	20	0	104	70-130	0			
Dibromochloromethane	19.01	1.0	20	0	95	60-135	0			
Dichlorodifluoromethane	16.59	1.0	20	0	83	30-155	0			
Ethylbenzene	19.95	1.0	20	0	99.8	75-125	0			
Isopropylbenzene	20.27	1.0	20	0	101	75-125	0			
m,p-Xylene	40.01	2.0	40	0	100	75-130	0			
Methyl tert-butyl ether	23.53	5.0	20	0	118	65-125	0			
Methylene chloride	19.11	5.0	20	0	95.6	55-140	0			
o-Xylene	20.24	1.0	20	0	101	80-120	0			
Styrene	20.63	1.0	20	0	103	65-135	0			
Tetrachloroethene	19.94	2.0	20	0	99.7	45-150	0			
Toluene	19.97	1.0	20	0	99.8	75-120	0			
trans-1,2-Dichloroethene	21.36	1.0	20	0	107	60-140	0			
trans-1,3-Dichloropropene	20.57	1.0	20	0	103	55-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	19.45	1.0	20	0	97.2	70-125	0
Trichlorofluoromethane	21.23	1.0	20	0	106	60-145	0
Vinyl chloride	22.24	1.0	20	0	111	50-145	0
Xylenes, Total	60.25	3.0	60	0	100	75-130	0
Surr: 1,2-Dichloroethane-d4	*19.05*	0	*20*	0	*95.2*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.16*	0	*20*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*19.64*	0	*20*	0	*98.2*	*85-115*	0
Surr: Toluene-d8	*19.2*	0	*20*	0	*96*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

MS Sample ID: **1303837-01A MS** Units: **µg/L** Analysis Date: **3/28/2013 10:31 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2252821** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.78	1.0	20	0	104	65-130	0			
1,1,2,2-Tetrachloroethane	U	1.0	20	0	0	65-130	0			S
1,1,2-Trichloroethane	8.47	1.0	20	0	42.4	75-125	0			S
1,1-Dichloroethane	20.9	1.0	20	0	104	70-135	0			
1,1-Dichloroethene	31.27	1.0	20	0	156	70-130	0			S
1,2,4-Trichlorobenzene	20.04	1.0	20	0	100	65-135	0			
1,2-Dibromo-3-chloropropane	8.75	1.0	20	0	43.8	50-130	0			S
1,2-Dibromoethane	18.58	1.0	20	0	92.9	80-120	0			
1,2-Dichlorobenzene	19.5	1.0	20	0	97.5	70-120	0			
1,2-Dichloroethane	19.11	1.0	20	0	95.6	70-130	0			
1,2-Dichloropropane	20.78	2.0	20	0	104	75-125	0			
1,3-Dichlorobenzene	20.01	2.0	20	0	100	75-125	0			
1,4-Dichlorobenzene	18.83	2.0	20	0	94.2	75-125	0			
2-Butanone	38.59	5.0	20	0	193	30-150	0			S
2-Hexanone	33.27	5.0	20	0	166	55-130	0			S
4-Methyl-2-pentanone	22.21	5.0	20	0	111	60-135	0			
Acetone	51.15	20	20	0	256	40-140	0			S
Benzene	20.69	1.0	20	0	103	80-120	0			
Bromodichloromethane	16.09	1.0	20	0	80.4	75-120	0			
Bromoform	16.46	1.0	20	0	82.3	70-130	0			
Bromomethane	18.12	1.0	20	0	90.6	30-145	0			
Carbon disulfide	8.36	2.5	20	0	41.8	35-165	0			
Carbon tetrachloride	20.9	1.0	20	0	104	65-140	0			
Chlorobenzene	19.67	1.0	20	0	98.4	80-120	0			
Chloroethane	23.09	1.0	20	0	115	60-135	0			
Chloroform	20.95	1.0	20	0	105	65-135	0			
Chloromethane	20.39	1.0	20	0	102	70-125	0			
cis-1,2-Dichloroethene	20.27	1.0	20	0	101	70-125	0			
cis-1,3-Dichloropropene	18.27	1.0	20	0	91.4	70-130	0			
Dibromochloromethane	15.32	1.0	20	0	76.6	60-135	0			
Dichlorodifluoromethane	18.86	1.0	20	0	94.3	30-155	0			
Ethylbenzene	20.37	1.0	20	0	102	75-125	0			
Isopropylbenzene	21.12	1.0	20	0	106	75-125	0			
m,p-Xylene	40.76	2.0	40	0	102	75-130	0			
Methyl tert-butyl ether	22.57	5.0	20	0	113	65-125	0			
Methylene chloride	19.37	5.0	20	0	96.8	55-140	0			
o-Xylene	20.55	1.0	20	0	103	80-120	0			
Styrene	20.62	1.0	20	0	103	65-135	0			
Tetrachloroethene	37.32	2.0	20	0	187	45-150	0			S
Toluene	20.45	1.0	20	0	102	75-120	0			
trans-1,2-Dichloroethene	21.15	1.0	20	0	106	60-140	0			
trans-1,3-Dichloropropene	18.26	1.0	20	0	91.3	55-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	38.55	1.0	20	0	193	70-125	0	S
Trichlorofluoromethane	22.15	1.0	20	0	111	60-145	0	
Vinyl chloride	23.63	1.0	20	0	118	50-145	0	
Xylenes, Total	61.31	3.0	60	0	102	75-130	0	
Surr: 1,2-Dichloroethane-d4	*20.05*	0	*20*	0	*100*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*20.27*	0	*20*	0	*101*	*75-120*	0	
Surr: Dibromofluoromethane	*18.67*	0	*20*	0	*93.4*	*85-115*	0	
Surr: Toluene-d8	*19.38*	0	*20*	0	*96.9*	*85-120*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

MSD Sample ID: **1303837-01A MSD** Units: **µg/L** Analysis Date: **3/28/2013 10:54 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2252822** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.47	1.0	20	0	102	65-130	20.78	1.5	30	
1,1,2,2-Tetrachloroethane	U	1.0	20	0	0	65-130	0	0	30	S
1,1,2-Trichloroethane	8.41	1.0	20	0	42	75-125	8.47	0.711	30	S
1,1-Dichloroethane	20.68	1.0	20	0	103	70-135	20.9	1.06	30	
1,1-Dichloroethene	30.89	1.0	20	0	154	70-130	31.27	1.22	30	S
1,2,4-Trichlorobenzene	20.83	1.0	20	0	104	65-135	20.04	3.87	30	
1,2-Dibromo-3-chloropropane	8.21	1.0	20	0	41	50-130	8.75	6.37	30	S
1,2-Dibromoethane	18.74	1.0	20	0	93.7	80-120	18.58	0.857	30	
1,2-Dichlorobenzene	19.63	1.0	20	0	98.2	70-120	19.5	0.664	30	
1,2-Dichloroethane	19.23	1.0	20	0	96.2	70-130	19.11	0.626	30	
1,2-Dichloropropane	20.93	2.0	20	0	105	75-125	20.78	0.719	30	
1,3-Dichlorobenzene	19.93	2.0	20	0	99.6	75-125	20.01	0.401	30	
1,4-Dichlorobenzene	19.67	2.0	20	0	98.4	75-125	18.83	4.36	30	
2-Butanone	38.08	5.0	20	0	190	30-150	38.59	1.33	30	S
2-Hexanone	33.01	5.0	20	0	165	55-130	33.27	0.785	30	S
4-Methyl-2-pentanone	23.18	5.0	20	0	116	60-135	22.21	4.27	30	
Acetone	51.34	20	20	0	257	40-140	51.15	0.371	30	S
Benzene	19.91	1.0	20	0	99.6	80-120	20.69	3.84	30	
Bromodichloromethane	15.48	1.0	20	0	77.4	75-120	16.09	3.86	30	
Bromoform	17.08	1.0	20	0	85.4	70-130	16.46	3.7	30	
Bromomethane	18.94	1.0	20	0	94.7	30-145	18.12	4.43	30	
Carbon disulfide	7.7	2.5	20	0	38.5	35-165	8.36	8.22	30	
Carbon tetrachloride	20.45	1.0	20	0	102	65-140	20.9	2.18	30	
Chlorobenzene	19.61	1.0	20	0	98	80-120	19.67	0.305	30	
Chloroethane	22.77	1.0	20	0	114	60-135	23.09	1.4	30	
Chloroform	20.85	1.0	20	0	104	65-135	20.95	0.478	30	
Chloromethane	20.16	1.0	20	0	101	70-125	20.39	1.13	30	
cis-1,2-Dichloroethene	20.14	1.0	20	0	101	70-125	20.27	0.643	30	
cis-1,3-Dichloropropene	17.66	1.0	20	0	88.3	70-130	18.27	3.4	30	
Dibromochloromethane	15.88	1.0	20	0	79.4	60-135	15.32	3.59	30	
Dichlorodifluoromethane	19.35	1.0	20	0	96.8	30-155	18.86	2.56	30	
Ethylbenzene	20.08	1.0	20	0	100	75-125	20.37	1.43	30	
Isopropylbenzene	21.27	1.0	20	0	106	75-125	21.12	0.708	30	
m,p-Xylene	40.27	2.0	40	0	101	75-130	40.76	1.21	30	
Methyl tert-butyl ether	22.73	5.0	20	0	114	65-125	22.57	0.706	30	
Methylene chloride	19.09	5.0	20	0	95.4	55-140	19.37	1.46	30	
o-Xylene	20.26	1.0	20	0	101	80-120	20.55	1.42	30	
Styrene	20.44	1.0	20	0	102	65-135	20.62	0.877	30	
Tetrachloroethene	35.97	2.0	20	0	180	45-150	37.32	3.68	30	S
Toluene	19.89	1.0	20	0	99.4	75-120	20.45	2.78	30	
trans-1,2-Dichloroethene	20.7	1.0	20	0	104	60-140	21.15	2.15	30	
trans-1,3-Dichloropropene	17.57	1.0	20	0	87.8	55-140	18.26	3.85	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	37.42	1.0	20	0	187	70-125	38.55	2.97	30	S
Trichlorofluoromethane	22.31	1.0	20	0	112	60-145	22.15	0.72	30	
Vinyl chloride	23.07	1.0	20	0	115	50-145	23.63	2.4	30	
Xylenes, Total	60.53	3.0	60	0	101	75-130	61.31	1.28	30	
Surr: 1,2-Dichloroethane-d4	*19.66*	0	*20*	0	*98.3*	*70-120*	20.05	*1.96*	*30*	
Surr: 4-Bromofluorobenzene	*20.75*	0	*20*	0	*104*	*75-120*	20.27	*2.34*	*30*	
Surr: Dibromofluoromethane	*18.23*	0	*20*	0	*91.2*	*85-115*	18.67	*2.38*	*30*	
Surr: Toluene-d8	*19.27*	0	*20*	0	*96.4*	*85-120*	19.38	*0.569*	*30*	

The following samples were analyzed in this batch: 1303834-11A 1303834-12A 1303834-14A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118006B** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **VBLKW2-130327-R118006B** Units: **µg/L** Analysis Date: **3/28/2013 02:00 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2253032** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	50								
Surr: 1,2-Dichloroethane-d4	*17.33*	0	*20*	0	*86.6*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*18.49*	0	*20*	0	*92.4*	*75-120*	0			
Surr: Dibromofluoromethane	*17.33*	0	*20*	0	*86.6*	*85-115*	0			
Surr: Toluene-d8	*17.77*	0	*20*	0	*88.8*	*85-120*	0			

LCS Sample ID: **VLCSW3-130327-R118006B** Units: **µg/L** Analysis Date: **3/28/2013 01:37 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2253031** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	365.6	50	500	0	73.1	70-130	0			
Surr: Toluene-d8	*17.75*	0	*20*	0	*88.8*	*85-120*	0			

The following samples were analyzed in this batch: 1303834-11A 1303834-12A 1303834-14A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-130328-R118032** Units: **µg/Kg** Analysis Date: **3/28/2013 12:43 PM**

Client ID: Run ID: **VMS7_130328A** SeqNo: **2254242** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	0.4	5.0								J
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.41	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	0.84	5.0								J
o-Xylene	U	2.5								
Styrene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	10					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	5.0					
Xylenes, Total	U	5.0					
Surr: 1,2-Dichloroethane-d4	*18.11*	0	*20*	0	*90.6*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.39*	0	*20*	0	*97*	*75-120*	0
Surr: Dibromofluoromethane	*19.31*	0	*20*	0	*96.6*	*85-115*	0
Surr: Toluene-d8	*19.9*	0	*20*	0	*99.5*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS2-130328-R118032** Units: **µg/Kg** Analysis Date: **3/28/2013 11:37 AM**

Client ID: Run ID: **VMS7_130328A** SeqNo: **2254238** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.09	5.0	20	0	100	70-135	0			
1,1,2,2-Tetrachloroethane	18.85	5.0	20	0	94.2	55-130	0			
1,1,2-Trichloroethane	19.2	5.0	20	0	96	60-125	0			
1,1-Dichloroethane	20.46	5.0	20	0	102	75-125	0			
1,1-Dichloroethene	22.04	5.0	20	0	110	65-135	0			
1,2,4-Trichlorobenzene	21.24	5.0	20	0	106	65-130	0			
1,2-Dibromo-3-chloropropane	20.78	5.0	20	0	104	40-135	0			
1,2-Dibromoethane	20.17	5.0	20	0	101	70-125	0			
1,2-Dichlorobenzene	20.05	5.0	20	0	100	75-120	0			
1,2-Dichloroethane	21.09	5.0	20	0	105	70-135	0			
1,2-Dichloropropane	20.41	5.0	20	0	102	70-120	0			
1,3-Dichlorobenzene	20.15	5.0	20	0	101	70-125	0			
1,4-Dichlorobenzene	20.49	5.0	20	0	102	70-125	0			
2-Butanone	19.87	10	20	0	99.4	30-160	0			
2-Hexanone	22.49	5.0	20	0	112	45-145	0			
4-Methyl-2-pentanone	32.44	5.0	20	0	162	45-145	0			S
Acetone	22.24	10	20	0	111	20-160	0			
Benzene	20.82	5.0	20	0	104	75-125	0			
Bromodichloromethane	21.5	5.0	20	0	108	70-130	0			
Bromoform	19.97	5.0	20	0	99.8	55-135	0			
Bromomethane	16.49	10	20	0	82.4	30-160	0			
Carbon disulfide	24.38	5.0	20	0	122	45-160	0			
Carbon tetrachloride	22.7	5.0	20	0	114	65-135	0			
Chlorobenzene	20.17	5.0	20	0	101	75-125	0			
Chloroethane	22.32	5.0	20	0	112	40-155	0			
Chloroform	21.11	5.0	20	0	106	70-125	0			
Chloromethane	20.77	10	20	0	104	50-130	0			
cis-1,2-Dichloroethene	22.54	5.0	20	0	113	65-125	0			
cis-1,3-Dichloropropene	19.85	5.0	20	0	99.2	70-125	0			
Dibromochloromethane	20.23	5.0	20	0	101	65-135	0			
Dichlorodifluoromethane	18.92	10	20	0	94.6	35-135	0			
Ethylbenzene	20.63	5.0	20	0	103	75-125	0			
Isopropylbenzene	19.54	5.0	20	0	97.7	75-130	0			
m,p-Xylene	40.31	2.5	40	0	101	80-125	0			
Methyl tert-butyl ether	27.46	5.0	20	0	137	75-125	0			S
Methylene chloride	23.57	5.0	20	0	118	55-140	0			
o-Xylene	20.02	2.5	20	0	100	75-125	0			
Styrene	20.15	5.0	20	0	101	75-125	0			
Tetrachloroethene	20.05	5.0	20	0	100	65-140	0			
Toluene	20.5	5.0	20	0	102	70-125	0			
trans-1,2-Dichloroethene	22.34	5.0	20	0	112	65-135	0			
trans-1,3-Dichloropropene	21.66	10	20	0	108	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	19.29	5.0	20	0	96.4	75-125	0
Trichlorofluoromethane	20.61	5.0	20	0	103	25-185	0
Vinyl chloride	21.23	5.0	20	0	106	60-125	0
Xylenes, Total	60.33	5.0	60	0	101	75-125	0
Surr: 1,2-Dichloroethane-d4	*20.83*	0	*20*	0	*104*	*70-120*	0
Surr: 4-Bromofluorobenzene	*18.69*	0	*20*	0	*93.4*	*75-120*	0
Surr: Dibromofluoromethane	*20.64*	0	*20*	0	*103*	*85-115*	0
Surr: Toluene-d8	*20.05*	0	*20*	0	*100*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1303834-01A MS** Units: **µg/Kg** Analysis Date: **3/28/2013 09:38 PM**

Client ID: **SB-1 (6-8')** Run ID: **VMS7_130328A** SeqNo: **2254272** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.84	5.0	20	0	79.2	70-135	0			
1,1,2,2-Tetrachloroethane	16.92	5.0	20	0	84.6	55-130	0			
1,1,2-Trichloroethane	15.71	5.0	20	0	78.6	60-125	0			
1,1-Dichloroethane	17.59	5.0	20	0	88	75-125	0			
1,1-Dichloroethene	19.9	5.0	20	0	99.5	65-135	0			
1,2,4-Trichlorobenzene	13.86	5.0	20	0	69.3	65-130	0			
1,2-Dibromo-3-chloropropane	15.84	5.0	20	0	79.2	40-135	0			
1,2-Dibromoethane	16.59	5.0	20	0	83	70-125	0			
1,2-Dichlorobenzene	15.56	5.0	20	0	77.8	75-120	0			
1,2-Dichloroethane	14.55	5.0	20	0	72.8	70-135	0			
1,2-Dichloropropane	16.21	5.0	20	0	81	70-120	0			
1,3-Dichlorobenzene	15.71	5.0	20	0	78.6	70-125	0			
1,4-Dichlorobenzene	15.25	5.0	20	0	76.2	70-125	0			
2-Butanone	13.27	10	20	1.103	60.8	30-160	0			
2-Hexanone	18.18	5.0	20	0	90.9	45-145	0			
4-Methyl-2-pentanone	23.37	5.0	20	0	117	45-145	0			
Acetone	19.51	10	20	13.12	31.9	20-160	0			
Benzene	16	5.0	20	0	80	75-125	0			
Bromodichloromethane	15.5	5.0	20	0	77.5	70-130	0			
Bromoform	16.66	5.0	20	0	83.3	55-135	0			
Bromomethane	9.79	10	20	0	49	30-160	0			J
Carbon disulfide	21.31	5.0	20	0.5611	104	45-160	0			
Carbon tetrachloride	17.54	5.0	20	0	87.7	65-135	0			
Chlorobenzene	16.99	5.0	20	0	85	75-125	0			
Chloroethane	20.94	5.0	20	0	105	40-155	0			
Chloroform	15.72	5.0	20	0.485	76.2	70-125	0			
Chloromethane	18.03	10	20	0	90.2	50-130	0			
cis-1,2-Dichloroethene	15.88	5.0	20	0	79.4	65-125	0			
cis-1,3-Dichloropropene	14.07	5.0	20	0	70.4	70-125	0			
Dibromochloromethane	16.89	5.0	20	0	84.4	65-135	0			
Dichlorodifluoromethane	17.44	10	20	0	87.2	35-135	0			
Ethylbenzene	17.56	5.0	20	0	87.8	75-125	0			
Isopropylbenzene	16.78	5.0	20	0	83.9	75-130	0			
m,p-Xylene	33.58	2.5	40	0	84	80-125	0			
Methyl tert-butyl ether	19.07	5.0	20	0	95.4	75-125	0			
Methylene chloride	19.76	5.0	20	0.7893	94.9	55-140	0			
o-Xylene	16.24	2.5	20	0	81.2	75-125	0			
Styrene	15.9	5.0	20	0	79.5	75-125	0			
Tetrachloroethene	17.94	5.0	20	0	89.7	65-140	0			
Toluene	16.95	5.0	20	0.1236	84.1	70-125	0			
trans-1,2-Dichloroethene	19.63	5.0	20	0	98.2	65-135	0			
trans-1,3-Dichloropropene	14.32	10	20	0	71.6	65-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	16.84	5.0	20	0	84.2	75-125	0
Trichlorofluoromethane	18.89	5.0	20	0	94.4	25-185	0
Vinyl chloride	19.91	5.0	20	0	99.6	60-125	0
Xylenes, Total	49.82	5.0	60	0	83	75-125	0
Surr: 1,2-Dichloroethane-d4	*18.57*	0	*20*	0	*92.8*	*70-120*	0
Surr: 4-Bromofluorobenzene	*21.09*	0	*20*	0	*105*	*75-120*	0
Surr: Dibromofluoromethane	*20*	0	*20*	0	*100*	*85-115*	0
Surr: Toluene-d8	*19.77*	0	*20*	0	*98.8*	*85-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1303834-01A MSD** Units: **µg/Kg** Analysis Date: **3/28/2013 10:08 PM**

Client ID: **SB-1 (6-8')** Run ID: **VMS7_130328A** SeqNo: **2254273** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.32	5.0	20	0	76.6	70-135	15.84	3.34	30	
1,1,2,2-Tetrachloroethane	15.07	5.0	20	0	75.4	55-130	16.92	11.6	30	
1,1,2-Trichloroethane	14.37	5.0	20	0	71.8	60-125	15.71	8.91	30	
1,1-Dichloroethane	16.04	5.0	20	0	80.2	75-125	17.59	9.22	30	
1,1-Dichloroethene	18.42	5.0	20	0	92.1	65-135	19.9	7.72	30	
1,2,4-Trichlorobenzene	13.44	5.0	20	0	67.2	65-130	13.86	3.08	30	
1,2-Dibromo-3-chloropropane	16.32	5.0	20	0	81.6	40-135	15.84	2.99	30	
1,2-Dibromoethane	14.88	5.0	20	0	74.4	70-125	16.59	10.9	30	
1,2-Dichlorobenzene	14.57	5.0	20	0	72.8	75-120	15.56	6.57	30	S
1,2-Dichloroethane	14.2	5.0	20	0	71	70-135	14.55	2.43	30	
1,2-Dichloropropane	15.32	5.0	20	0	76.6	70-120	16.21	5.65	30	
1,3-Dichlorobenzene	14.5	5.0	20	0	72.5	70-125	15.71	8.01	30	
1,4-Dichlorobenzene	14.43	5.0	20	0	72.2	70-125	15.25	5.53	30	
2-Butanone	12.34	10	20	1.103	56.2	30-160	13.27	7.26	30	
2-Hexanone	14.83	5.0	20	0	74.2	45-145	18.18	20.3	30	
4-Methyl-2-pentanone	20.77	5.0	20	0	104	45-145	23.37	11.8	30	
Acetone	17.02	10	20	13.12	19.5	20-160	19.51	13.6	30	S
Benzene	15.66	5.0	20	0	78.3	75-125	16	2.15	30	
Bromodichloromethane	14.82	5.0	20	0	74.1	70-130	15.5	4.49	30	
Bromoform	15.96	5.0	20	0	79.8	55-135	16.66	4.29	30	
Bromomethane	13.72	10	20	0	68.6	30-160	9.79	33.4	30	R
Carbon disulfide	20.55	5.0	20	0.5611	99.9	45-160	21.31	3.63	30	
Carbon tetrachloride	17.49	5.0	20	0	87.4	65-135	17.54	0.285	30	
Chlorobenzene	15.11	5.0	20	0	75.6	75-125	16.99	11.7	30	
Chloroethane	18.39	5.0	20	0	92	40-155	20.94	13	30	
Chloroform	14.37	5.0	20	0.485	69.4	70-125	15.72	8.97	30	S
Chloromethane	15.73	10	20	0	78.6	50-130	18.03	13.6	30	
cis-1,2-Dichloroethene	14.62	5.0	20	0	73.1	65-125	15.88	8.26	30	
cis-1,3-Dichloropropene	13.48	5.0	20	0	67.4	70-125	14.07	4.28	30	S
Dibromochloromethane	15.01	5.0	20	0	75	65-135	16.89	11.8	30	
Dichlorodifluoromethane	16.88	10	20	0	84.4	35-135	17.44	3.26	30	
Ethylbenzene	16.66	5.0	20	0	83.3	75-125	17.56	5.26	30	
Isopropylbenzene	15.72	5.0	20	0	78.6	75-130	16.78	6.52	30	
m,p-Xylene	31.98	2.5	40	0	80	80-125	33.58	4.88	30	S
Methyl tert-butyl ether	18.91	5.0	20	0	94.6	75-125	19.07	0.843	30	
Methylene chloride	18.55	5.0	20	0.7893	88.8	55-140	19.76	6.32	30	
o-Xylene	14.78	2.5	20	0	73.9	75-125	16.24	9.41	30	S
Styrene	14.72	5.0	20	0	73.6	75-125	15.9	7.71	30	S
Tetrachloroethene	17.16	5.0	20	0	85.8	65-140	17.94	4.44	30	
Toluene	15.97	5.0	20	0.1236	79.2	70-125	16.95	5.95	30	
trans-1,2-Dichloroethene	18.59	5.0	20	0	93	65-135	19.63	5.44	30	
trans-1,3-Dichloropropene	12.94	10	20	0	64.7	65-125	14.32	10.1	30	S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	16.32	5.0	20	0	81.6	75-125	16.84	3.14	30
Trichlorofluoromethane	17.33	5.0	20	0	86.6	25-185	18.89	8.61	30
Vinyl chloride	19.28	5.0	20	0	96.4	60-125	19.91	3.22	30
Xylenes, Total	46.76	5.0	60	0	77.9	75-125	49.82	6.34	30
Surr: 1,2-Dichloroethane-d4	*19.24*	0	*20*	0	*96.2*	*70-120*	18.57	*3.54*	*30*
Surr: 4-Bromofluorobenzene	*19.48*	0	*20*	0	*97.4*	*75-120*	21.09	*7.94*	*30*
Surr: Dibromofluoromethane	*21.14*	0	*20*	0	*106*	*85-115*	20	*5.54*	*30*
Surr: Toluene-d8	*19.35*	0	*20*	0	*96.8*	*85-120*	19.77	*2.15*	*30*

The following samples were analyzed in this batch:

1303834-01A	1303834-02A	1303834-03A
1303834-04A	1303834-06A	1303834-07A
1303834-08A	1303834-09A	1303834-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1303834
Project: Municipal Farms-MCI 3/22/13

QC BATCH REPORT

Batch ID: **R118034** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R118034** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: Run ID: **MOIST_130327B** SeqNo: **2252193** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R118034** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: Run ID: **MOIST_130327B** SeqNo: **2252189** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1303834-01CDUP** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: **SB-1 (6-8')** Run ID: **MOIST_130327B** SeqNo: **2252176** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.83	0.050	0	0	0	0-0	15.83	0	20	

DUP Sample ID: **1303834-10CDUP** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: **SB-6 (11-13')** Run ID: **MOIST_130327B** SeqNo: **2252185** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.33	0.050	0	0	0	0-0	18.98	1.83	20	

The following samples were analyzed in this batch:

1303834-01C	1303834-02C	1303834-03C
1303834-04C	1303834-06C	1303834-07C
1303834-08C	1303834-09C	1303834-10C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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Chain of Custody Form

Page 1 of 3

COC ID: 69953

ALS Project Manager:

ALS Work Order #: 1303834

Customer Information		Project Information	
Purchase Order		Project Name	Municipal Farms-MCI
Work Order		Project Number	9004.06.0002.015.022
Company Name	Tetra Tech	Bill To Company	Tetra Tech
Send Report To	Emily Fisher	Invoice Attn	Emily Fisher
Address	415 Oak Street	Address	415 Oak Street
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106
Phone	(816) 412-1755	Phone	(816) 412-1755
Fax	(816) 410-1748	Fax	(816) 410-1748
e-Mail Address		e-Mail Address	

Parameter/Method Request for Analysis

A	TCL Volatiles with GRO (C6-C10)
B	TCL SVOCs with DRO (C10-C21), ORO (C21-C35)
C	Full List Herbicides
D	TCL Pesticides
E	RCRA 8 Metals-Dissolved
F	RCRA 8 Metals-Total
G	Grain Size ASTM D422-No Hydrometer
H	% Moisture
I	~~TSS~~ TDS 160.1
J	Project Specific MS/MSD on this sample point

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1 (6-8')	3-22-13	0845	Soil		6	X	X				X					
2	SB-1 (10-12')	3-22-13	0835	Soil		6	X	X				X					
3	SB-2 (5-7')	3-22-13	0935	Soil		6	X	X				X					
4	SB-2 (7-9')	3-22-13	0945	Soil		6	X	X				X					
5	SB-3 (7-9')	3-22-13	1015	Soil		1							X				
6	SB-4 (6-8')	3-22-13	1050	Soil		6	X	X				X					
7	SB-4 (8-10')	3-22-13	1100	Soil		6	X	X				X					
8	SB-5 (3-5')	3-22-13	1140	Soil		6	X	X				X					
9	SB-6 (6-8')	3-22-13	1215	Soil		6	X	X				X					
10	SB-6 (11-13')	3-22-13	1220	Soil		6	X	X				X					

Sampler(s) Please Print & Sign: Danny O'Connor

Shipment Method: Fedex

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date: 3-25-13	Time: 1000	Received by: FEDEX
Relinquished by: FEDEX	Date: 3/26/13	Time: 0930	Received by (Laboratory):
Logged by (Laboratory):	Date: 3/26/13	Time: 1215	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 3

COC ID: 69955

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ALS Project Manager: | ALS Work Order #: 1303834

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Municipal Farms-MCI	A	TCL Volatiles with GRO (C6-C10)
Work Order		Project Number	9004.06.0002.015.022	B	TCL SVOCs with DRO (C10-C21), ORO (C21-C35)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	Full List Herbicides
Send Report To	Emily Fisher	Invoice Attn	Emily Fisher	D	TCL Pesticides
Address	415 Oak Street	Address	415 Oak Street	E	RCRA 8 Metals-Dissolved
				F	RCRA 8 Metals-Total
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	Grain Size ASTM D422-No Hydrometer
Phone	(816) 412-1755	Phone	(816) 412-1755	H	% Moisture
Fax	(816) 410-1748	Fax	(816) 410-1748	I	~~TOC~~ TDS 160.1
e-Mail Address		e-Mail Address		J	Project Specific MS/MSD on this sample point

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
01	Field Blank	3-22-13	1750	Liquid		8	X	X	X	X		X					
02	Rinsate Blank	3-22-13	1800	Liquid		8	X	X	X	X		X					X
03																	
04	Trip Blank - Soil	3/22/13															
05	Trip Blank Water	3/22/13															
06																	
07																	
08																	
09																	
10																	

Danny O'Connor 3-25-13

Sampler(s) Please Print & Sign: Danny O'Connor

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] Std 10 WK Days [ ] 5 WK Days [ ] 2 WK Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date: 3-26-13	Time: 1000	Received by: FedEx
Relinquished by: FedEx	Date: 3/26/13	Time: 0930	Received by (Laboratory):
Logged by (Laboratory): KR	Date: 3/26/13	Time: 1215	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
- [ ] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP CheckList
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **TETRATECH - MO** Date/Time Received: **26-Mar-13 09:30**

Work Order: **1303834** Received by: **KRW**

Checklist completed by Keith Wierenga 26-Mar-13 Reviewed by: Ann Preston 26-Mar-13
eSignature Date eSignature Date

Matrices: Soil & Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	4.8 - 9.0 C		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	3/26/2013 12:50:22 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ORIGIN ID: MKCA (816) 412-1741
DANNY O'CONNOR
TETRA TECH
415 OAK STREET

KANSAS CITY, MO 64106
UNITED STATES US

SHIP DATE: 25MAR13
ACTWGT: 30.0 LB MAN
CAD: 4681B5/CAFE2608

BILL SENDER

TO RECEIVING DEPT.
ALS LABORATORY GROUP
3352 128TH AVE

HOLLAND MI 494249263
(616) 399-6070
REF: 103DX9004.06.0002.015.022

FedEx Express

3 of 4
MPS# 0263 4465 1406 5375
Mstr# 4465 1406 5353

TUE - 26 MAR 10:30A
PRIORITY OVERNIGHT
0201

NA GRRA

49424
MI-US GRR

Part # 156148-434 RIT2 04/10

ORIGIN ID: MKCA (816) 412-1741
DANNY O'CONNOR
TETRA TECH
415 OAK STREET

KANSAS CITY, MO 64106
UNITED STATES US

SHIP DATE: 25MAR13
ACTWGT: 30.0 LB MAN
CAD: 4681B5/CAFE2608

BILL SENDER

TO RECEIVING DEPT.
ALS LABORATORY GROUP
3352 128TH AVE

HOLLAND MI 494249263
(616) 399-6070
REF: 103DX9004.06.0002.015.022

FedEx Express

4 of 4
MPS# 0263 4465 1406 5386
Mstr# 4465 1406 5353

TUE - 26 MAR 10:30A
PRIORITY OVERNIGHT
0201

NA GRRA

49424
MI-US GRR

Part # 156148-434 RIT2 04/10

x 7.6
4.8
xx 9.0
5.0

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 3.25.13 Time: 1000
Name: Danny O'Connor
Company: TT

Seal Broken By:

Date:

ORIGIN ID: MKCA (816) 412-1741
DANNY O'CONNOR
TETRA TECH
415 OAK STREET

KANSAS CITY, MO 64106
UNITED STATES US

SHIP DATE: 25MAR13
ACTWGT: 30.0 LB MAN
CAD: 468185/CAFE2608

BILL SENDER

TO RECEIVING DEPT.
ALS LABORATORY GROUP
3352 128TH AVE

HOLLAND MI 494249263
(616) 399-6070
REF: 103DX9004.06.0002.015.022

512C1/640E/CF68

FedEx Express

J121312100501 25

1 of 4

TRK# 0201 4465 1406 5353

TUE - 26 MAR 10:30A
PRIORITY OVERNIGHT

MASTER

NA GRRA

49424
MI-US GRR

Part # 156148-434 RIT2 04/10

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 3-25-13 Time: 1000
Name: Danny O Connor
Company: TT

Seal Broken By:

Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 3·25·13 Time: 1000
Name: Danny O'Connor
Company: TE

Seal Broken By:

Date:

DATA VERIFICATION REPORT

Prepared by:	**Harry Ellis**
Date:	**12 April 2013**
Site Name/Job Number:	**Men's Correctional Institute, Municipal Farm, KCMO**
Laboratory:	**ALS Environmental/Holland, Michigan**
Data Package or SDG Number:	**1303495**
Sample Designation/Name (ID):	**SS-1, SS-2, SS-3, SS-4, SS-5, SS-6, and Trip Blank**
Matrices:	**Soil**
Analytical Parameters:	**VOC, GRO, SVOC, DRO, ORO, Pesticides, Herbicides, and Metals**

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	X			
Data package completeness	X			Summary package, as requested
Sample preservation, storage, and holding times	X			
Method and field blank contamination	X			Low concentration ("J" flagged) of chloroform and toluene in the soil samples are artifacts and should be flagged nondetected ("U")
Surrogate spikes	X			Recoveries not reliably measured for dilutions ≥10-fold. But DRO and ORO in sample SS-1 and VOC in sample SS-2 estimated ("J" or "UJ") due to matrix interference shown by surrogates.
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	X			Irregularities in samples from other sites irrelevant. But GRO in SS-1 gave irregular recoveries so qualify as estimated ("J")
Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)	X			A few excess recoveries for nondetected VOC, SVOC. No qualifications applied.
Other			X	
Summary Some results were below the calibration range; the laboratory properly qualified these as estimated (flagged "J"). For analytes above undiluted calibration range, the laboratory re-analyzed at a dilution and reported the latter, so no further qualifications are required. All results can be used, as qualified, for any purpose.				

DATA VERIFICATION REPORT

Prepared by:	**Harry Ellis**
Date:	**12 April 2013**
Site Name/Job Number:	**Men's Correctional Institute, Municipal Farm, KCMO**
Laboratory:	**ALS Environmental/Holland, Michigan**
Data Package or SDG Number:	**1303834**
Sample Designation/Name (ID):	**SB-1 (6-8'), SB-1 (10-12'), SB-2 (5-7'), SB-2 (7-9'), SB-3 (7-9'), SB-4 (6-8'), SB-4 (8-10'), SB-5 (3-5'), SB-6 (6-8'), SB-6 (11-13'), Field Blank, Rinsate Blank, Trip Blank (soil), and Trip Blank (water)**
Matrices:	**Soil (and aqueous quality control samples)**
Analytical Parameters:	**VOC, GRO, SVOC, DRO, ORO, Pesticides, Herbicides, and Metals**

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	X			
Data package completeness	X			Summary Package, as requested
Sample preservation, storage, and holding times	X			
Method and field blank contamination	X			Low concentrations ("J" flagged) of chloroform and methylene chloride in soil samples (including the Trip Blank [soil]), of phthalates in the Field Blank and Rinsate Blank, and of selenium in the Field Blank are artifacts and should be flagged nondetected ("U")
Surrogate spikes				Interactions with trisodium phosphate preservative caused low recoveries of one surrogate in some samples. No qualifications were applied.
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)				Irregularities in samples from other sites are irrelevant. But dalapon in the rinsate blank is qualified as estimated (flagged "UJ") due to very low recoveries.
Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)				A few excess recoveries for nondetected VOC, SVOC. No qualifications applied.

Other			X	
Summary Some results were below the calibration range; the laboratory properly qualified these as estimated (flagged "J"). For analytes above undiluted calibration range, the laboratory re-analyzed at a dilution and reported the latter, so no further qualifications are required. All results can be used, as qualified, for any purpose.				

APPENDIX E

TABLES

TABLE E-1

SUMMARY OF SOIL SAMPLES COLLECTED DURING PHASE II TBA ACTIVITIES
MUNICIPAL FARMS – MCI, JACKSON COUNTY, MISSOURI

Sample Number	Sample Description	Sample Analyses
Surface Soil Samples		
SS-1	North of the Municipal Garden and west of the former Men's Reformatory	VOCs (TPH-GRO), SVOCs (TPH-DRO & -ORO), RCRA metals, pesticides, and herbicides
SS-2	West of the former Men's Reformatory, along the northern boundary of the subject property	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals, pesticides, and herbicides
SS-3	East of the former Men's Reformatory	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals, pesticides, and herbicides
SS-4	At the radio tower in the east portion of the subject property	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SS-5	In a drainage area along the southeast border of the subject property	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals, pesticides, and herbicides
SS-6	At a low point along the southeast border of the subject property	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals, pesticides, and herbicides
Subsurface Soil Samples		
SB-1 (6-8')	At a clearing on the west side of the subject property	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-1 (10-12')		VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-2 (5-7')	Where the former MCI used to stand	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-2 (7-9')		VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-3 (7-9')	Where the former MCI used to stand and east of SB-2	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-4 (6-8')	East of the former MCI and the Municipal Garden and south of the former Men's Reformatory	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-4 (8-10')		VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-5 (3-5')	Where the former Men's Reformatory used to stand	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-6 (6-8')	Along the northern boundary of the subject property and the northeastern boundary of the former Men's Reformatory	VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals
SB-6 (11-13')		VOCs (TPH-GRO), SVOCs(TPH-DRO & -ORO), RCRA metals

Notes:

DRO Diesel-range organics
GRO Gasoline-range organics
MCI Municipal Correctional Institute
RCRA Resource Conservation and Recovery Act
' Feet
TPH Total petroleum hydrocarbons
VOC Volatile organic compound
ORO Oil-range organics
SVOC Semivolatile organic compound

TABLE E-2

SUMMARY OF VOC ANALYSIS OF SURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)				Sample ID (mg/kg)					
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-residential	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
2-Butanone	28,000	200,000	44,200	579,000	0.0084 J	0.012	0.022	0.024	0.013	0.018
Acetone	61,000	635,000	61,500	807,000	0.087	0.11	0.075	0.13	0.097	U
Benzene	1.1	5.4	177	763	U	0.00081 J	U	U	U	U
Carbon disulfide	820	3700	7,290	95,600	0.00079 J	0.003 J	U	U	0.00085 J	U
Chloroform	0.29	1.5	180	678	0.0006 J	0.00073	0.00062 J	0.00079 J	0.00063 J	0.00071 J
Cyclohexane	7,000	29,000	-	-	U	0.0019 J	U	U	U	U
Ethylbenzene	5.4	27	7,450	97,500	U	0.0003 J	U	U	U	U
m,p-Xylene	590	2,500	-	-	U	0.00048 J	U	U	U	U
Methylcyclohexane	-	-	-	-	U	0.0022 J	U	U	U	U
Toluene	5,000	45,000	6,210	81,100	0.0018 J	0.0012 J	0.00027 J	0.0006 J	0.00035 J	U

Notes

EPA	U. S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
MCI	Municipal Correctional Institute
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
RSL	Regional screening level
U	Analyte not detected above method detection limit
VOC	Volatile organic compound

TABLE E-3

SUMMARY OF SVOC ANALYSIS OF SURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)				Sample ID (mg/kg)					
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-Residential	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
TPH-DRO	-	-	140,000	1,410,000	31	40	23	25	92	32
TPH-ORO	-	-	124,000	1,250,000	170	110	89	76	390	70
1,1'-Biphenyl	51	210	3,420	44,900	U	U	U	U	0.096 J	U
2-Methylnaphthalene	230	2,200	273	3,590	0.04 J	0.11	U	U	0.24	0.15
4-Methylphenol	-	-	274	2,840	0.13 J	U	U	U	0.22	U
Acenaphthene	3,400	33,000	3,260	30,700	0.91	U	0.043	U	3.9	U
Acenaphthylene	-	-	4,390	54,100	0.087	U	U	U	0.003 J	U
Anthracene	17,000	170,000	16,400	154,000	0.29	U	0.11	U	5.9	0.033 J
Benzaldehyde	7,800	100,000	-	-	U	0.041 J	U	U	U	U
Benzo(a)anthracene	0.15	2.1	6.2	21.1	**0.63**	0.052	**0.36**	0.034 J	**12**	0.14
Benzo(a)pyrene	0.015	0.21	0.62	2.11	**0.54**	**0.034 J**	**0.28**	U	**9.7**	**0.13**
Benzo(b)fluoranthene	0.15	2.1	6.2	21.1	**0.83**	0.084	**0.46**	0.08	**12**	**0.24**
Benzo(g,h,i)perylene	-	-	1,720	16,500	0.19	U	0.087	U	2.2	0.055
Benzo(k)fluoranthene	1.5	21	62	211	0.44	0.034 J	0.21	0.03 J	**7.1**	0.1
Bis(2-ethylhexyl)phthalate	35	120	347	1230	U	0.031 J	U	U	U	U
Butyl Benzene Phthalate	260	910	12,200	123,000	0.13 J	0.043 J	0.052 J	U	0.094 J	0.11 J
Chrysene	15	210	608	2040	0.87	0.071	0.36	0.049	12	0.16
Dibenzo(a,h)anthracene	0.015	0.21	0.62	2.11	0.057	U	U	U	1.3	U
Dibenzofuran	78	1,000	142	1790	0.081 J	0.06 J	U	U	1.7	0.059 J
Fluoranthene	2,300	22,000	2,280	21,900	1.1	0.098	0.84	0.085	31	0.31
Fluorene	2,300	22,000	2,240	21,300	0.079	U	0.03 J	U	U	U
Indeno(1,2,3-cd)pyrene	0.15	2.1	3.77	12.8	**0.19**	U	0.095	U	**2.5**	0.056
Naphthalene	3.6	18	36.3	119	0.026 J	0.049	U	U	0.24	0.076
Phenanthrene	-	-	2,250	28,200	0.89	0.16	0.47	U	24	0.26
Pyrene	1,700	17,000	1,710	16,400	1.5	0.084	0.67	0.066	27	0.26

Notes

Bold value indicates result is greater than a benchmark value.

DRO	Diesel-range organics
EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
MCI	Municipal Correctional Institute
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
ORO	Oil-range organics
RSL	Regional screening level
TPH	Total petroleum hydrocarbons
U	Analyte not detected above method detection limit

TABLE E-4

SUMMARY OF METALS ANALYSIS OF SURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)					Sample ID (mg/kg)					
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-Residential	USGS Background Concentrations	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
Mercury	10	43	46.3	630	0.016	0.12	0.61	0.05	0.047	3.4	0.22
Arsenic	0.39	1.6	3.89	15.9	16.603	**6.3**	**8.9**	**8.2**	**8.1**	**5.7**	**6.2**
Barium	15,000	190,000	15,000	181,000	-	200	220	220	230	160	180
Cadmium	70	800	16.8	74.8	-	1.3	2.6	0.36	0.38	1.2	3.9
Chromium	120,000	1,500,000	74,600	472,000	-	13	24	13	14	9.3	12
Lead	400	800	260	660	40.96	150	220	42	26	94	180
Selenium	390	5,100	380	4780	0.499	1.0	1.4	1.3	1.5	0.81	1.2
Silver	390	5,100	374	4480	-	0.073 J	0.28 J	0.044 J	0.045 J	0.068 J	0.21 J

Notes

Bold value indicates result is greater than a benchmark value.

EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
MCI	Municipal Correctional Institute
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
REC	Recognized environmental condition
RSL	Regional screening level
U	Analyte not detected above method detection limit
USGS	United States Geological Survey

TABLE E-5

SUMMARY OF PESTICIDE ANALYSIS OF SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)				Sample ID (mg/kg)				
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-Residential	SS-1	SS-2	SS-3	SS-5	SS-6
4,4'-DDD	2	7.2	14.3	71.8	0.009 J	0.005 J	U	0.011 J	U
4,4'-DDE	1.4	5.1	20.2	50.7	0.047	0.038	U	0.055	0.0053 J
4,4'-DDT	1.7	7	14.3	50.7	0.022	0.017	0.007 J	0.019	0.0067 J

Notes:

DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
MCI	Municipal Correctional Institute
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
REC	Recognized environmental condition
RSL	Regional screening level
U	Analyte not detected above method detection limit

TABLE E-6

SUMMARY OF VOC ANALYSIS OF SUBSURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)				Sample ID (mg/kg)								
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-residential	SB-1 (6-8')	SB-1 (10-12')	SB-2 (5-7')	SB-2 (7-9')	SB-4 (6-8')	SB-4 (8-10')	SB-5 (3-5')	SB-6 (6-8')	SB-6 (11-13')
2-Butanone	28,000	200,000	25,200	203,000	0.013 J	U	0.0014 J	0.0027 J	0.0053 J	U	0.0027 J	0.0037 J	0.0041 J
Acetone	61,000	635,000	61,500	807,000	0.016	0.0033 J	0.02	0.026	0.025	0.0046 J	0.028	0.03	0.02 J
Carbon disulfide	820	3700	7,290	95,600	0.00067 J	0.00051 J	0.0005 J	0.00047 J	0.00068 J	0.00034 J	0.00042 J	0.00053 J	0.00043 J
Chloroform	0.29	1.5	180	678	0.00058 J	0.00052 J	0.00056 J	0.0007 J	0.00045 J	0.00043 J	0.00051 J	0.00066 J	0.00056 J
Methylene chloride	56	960	842	3,700	0.00094 J	0.0008 J	0.00091 J	0.00094 J	0.00062 J	0.00066 J	0.00078 J	0.0011 J	0.00079 J

Notes

'	Feet
EPA	U. S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
MCI	Municipal Correctional Institute
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
RSL	Regional screening level
U	Analyte not detected above method detection limit
VOC	Volatile organic compound

TABLE E-7

SUMMARY OF SVOC ANALYSIS OF SUBSURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

	Screening Values (mg/kg)				Sample ID (mg/kg)								
Analyte	**EPA RSL Residential**	**EPA RSL Industrial**	**MRBCA Tier 1 Clayey Soil Residential**	**MRBCA Tier 1 Clayey Soil Non-Residential**	**SB-1 (6-8')**	**SB-1 (10-12')**	**SB-2 (5-7')**	**SB-2 (7-9')**	**SB-4 (6-8')**	**SB-4 (8-10')**	**SB-5 (3-5')**	**SB-6 (6-8')**	**SB-6 (11-13')**
TPH-ORO	-	-	124,000	1,250,000	17	10	18	21	18	19	51	18	100
2-Methylnaphthalene	230	2,200	-	3,590	U	U	U	U	0.083 J	U	U	U	U
Acenaphthene	3,400	33,000	3,260	30,700	U	U	U	U	U	U	U	U	0.12 J
Acenaphthylene	-	-	4,390	54,100	U	U	U	U	U	U	U	U	0.15 J
Anthracene	17,000	170,000	16,400	154,000	U	U	U	U	U	U	U	U	0.36
Benzo(a)anthracene	0.15	2.1	6.2	21.1	U	U	U	U	U	U	**0.21**	0.049	**0.85**
Benzo(a)pyrene	0.015	0.21	0.62	2.11	U	U	U	U	U	U	**0.21**	**0.044**	**0.83**
Benzo(b)fluoranthene	0.15	2.1	6.2	21.1	U	U	U	U	U	U	**0.27**	0.06	**1.1**
Benzo(g,h,i)perylene	-	-	1,720	16,500	U	U	U	U	U	U	0.15 J	0.033 J	0.48
Benzo(k)fluoranthene	1.5	21	62	211	U	U	U	U	U	U	0.11 J	0.024 J	0.36
Chrysene	15	210	608	2040	U	U	U	U	U	U	0.23	0.054	0.87
Dibenzo(a,h)anthracene	0.015	0.21	0.62	2.11	U	U	U	U	U	U	U	U	0.14 J
Dibenzofuran	78	1,000	142	1790	U	U	U	U	U	U	U	U	0.11 J
Fluoranthene	2,300	22,000	2,280	21,900	U	U	U	0.023 J	U	0.021 J	0.44	0.11	2
Fluorene	2,300	22,000	2,240	21,300	U	U	U	U	U	U	U	U	0.19
Indeno(1,2,3-cd)pyrene	0.15	2.1	3.77	12.8	U	U	U	U	U	U	0.12 J	0.027 J	**0.43**
Naphthalene	3.6	18	36.3	119	U	U	U	U	0.047	U	U	U	U
Phenanthrene	-	-	2,250	28,200	U	U	U	U	U	U	0.29	0.062	1.5
Pyrene	1,700	17,000	1,710	16,400	U	U	U	U	U	U	0.36	0.085	U

Notes

Bold value indicates result is greater than a benchmark value.

'	Feet
EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
MCI	Municipal Correctional Institute
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
ORO	Oil-range organics
RSL	Regional screening level
TPH	Total petroleum hydrocarbons
U	Analyte not detected above method detection limit

TABLE E-8

SUMMARY OF METALS ANALYSIS OF SUBSURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)					Sample ID (mg/kg)								
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-Residential	USGS Background Concentrations	SB-1 (6-8')	SB-1 (10-12')	SB-2 (5-7')	SB-2 (7-9')	SB-4 (6-8')	SB-4 (8-10')	SB-5 (3-5')	SB-6 (6-8')	SB-6 (11-13')
Mercury	10	43	46.3	630	0.016	0.039	0.03	0.049	0.051	0.034	0.033	0.077	0.047	0.042
Arsenic	0.39	1.6	3.89	15.9	16.603	**6.7**	**3.7**	**7.8**	**8.2**	**5.8**	**4.9**	**6.8**	**6.5**	**5.5**
Barium	15,000	190,000	15,000	181,000	-	150	380	250	260	150	220	340	300	250
Cadmium	70	800	16.8	74.8	-	0.47	0.32	0.29	0.28	0.23	0.26	0.29	0.27	0.33
Chromium	120,000	1,500,000	74,600	472,000	-	24	25	16	16	13	12	17	18	13
Lead	400	800	260	660	40.96	19	16	16	15	14	13	65	17	43
Selenium	390	5,100	380	4780	0.499	0.94	1	0.97	1.1	1.2	0.83	0.97	1.1	0.75
Silver	390	5,100	374	4480	-	0.045 J	0.045 J	0.03 J	0.028 J	0.03 J	0.022 J	0.031 J	0.033 J	0.032 J

Notes

Bold value indicates result is greater than a benchmark value.

'	Feet
EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
MCI	Municipal Correctional Institute
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
RSL	Regional screening level
U	Analyte not detected above method detection limit
USGS	United States Geological Survey

TABLE E-9

CONSTITUENTS ABOVE BENCHMARKS IN SURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Surface Soil	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-residential	USGS Background Concentrations (Metals Only)
SS-1					
SVOCs					
Benzo(a)anthracene	X				
Benzo(a)pyrene	X	X			
Benzo(b)fluoranthene	X				
Indeno(1,2,3-cd)pyrene	X				
Metals					
Arsenic	X	X	X		
SS-2					
SVOCs					
Benzo(a)pyrene	X				
Metals					
Arsenic	X	X	X		
SS-3					
SVOCs					
Benzo(a)anthracene	X				
Benzo(a)pyrene	X	X			
Benzo(b)fluoranthene	X				
Metals					
Arsenic	X	X	X		
SS-4					
Metals					
Arsenic	X	X	X		
SS-5					
SVOCs					
Benzo(a)anthracene	X	X	X		
Benzo(a)pyrene	X	X	X	X	
Benzo(b)fluoranthene	X	X	X		
Benzo(k)fluoranthene	X				
Indeno(1,2,3-cd)pyrene	X	X			
Metals					
Arsenic	X	X	X		
SS-6					
SVOCs					
Benzo(a)pyrene	X				
Benzo(b)fluoranthene	X				
Metals					
Arsenic	X	X	X		

Notes

EPA	U.S. Environmental Protection Agency	RSL	Regional screening level
MCI	Municipal Correctional Institute	SVOC	Semivolatile organic compound
mg/kg	Milligrams per kilogram	USGS	U.S. Geological Survey
MRBCA	Missouri risk-based corrective action		

TABLE E-10

CONSTITUENTS ABOVE BENCHMARKS IN SUBSURFACE SOIL SAMPLES
MUNICIPAL FARMS - MCI, JACKSON COUNTY, MISSOURI

Subsurface Soil	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clayey Soil Residential	MRBCA Tier 1 Clayey Soil Non-residential	USGS Background Concentrations (Metals Only)
SB-1 (6-8')					
Metals					
Arsenic	X	X	X		
SB-1 (10-12')					
Metals					
Arsenic	X	X			
SB-2 (5-7')					
Metals					
Arsenic	X	X	X		
SB-2 (7-9')					
Metals					
Arsenic	X	X	X		
SB-4 (6-8')					
Metals					
Arsenic	X	X	X		
SB-4 (8-10')					
Metals					
Arsenic	X	X	X		
SB-5 (3-5')					
SVOCs					
Benzo(a)anthracene	X				
Benzo(a)pyrene	X	X			
Benzo(b)fluoranthene	X				
Metals					
Arsenic	X	X	X		
SB-6 (6-8')					
SVOCs					
Benzo(a)pyrene	X				
Metals					
Arsenic	X	X	X		
SB-6 (11-13')					
SVOCs					
Benzo(a)anthracene	X				
Benzo(a)pyrene	X	X	X		
Benzo(b)fluoranthene	X				
Indeno(1,2,3-cd)pyrene	X				
Metals					
Arsenic	X	X	X		

Notes

'	Feet	RSL	Regional screening level
EPA	U.S. Environmental Protection Agency	SVOC	Semivolatile organic compound
MCI	Municipal Correctional Institute	USGS	U.S. Geological Survey
MRBCA	Missouri risk-based corrective action		