Harlan Industrial Park
University Blvd & Topeka Blvd
Topeka, Shawnee County, Kansas

January 24, 2012 Terracon Project No. 14117064

Prepared for:

Steve Harlan c/o NAI Kaw Valley Topeka, Kansas

Prepared by:

Terracon Consultants, Inc.
Topeka, Kansas

Offices Nationwide Employee-Owned Established in 1965 terracon.com





Mr. Steve Harlan 2640 SW 93rd Wakarusa, KS 66546

c/o NAI Kaw Valley 534 S Kansas Ave, Suite 1108 Topeka, Kansas 66603

Attn: Mr. Thomas Moses

P: 7852321602 F: 7852321829

E: tmoses@naikawvalley.com

Re: Phase I Environmental Site Assessment

Harlan Industrial Park

University Blvd & Topeka Blvd Topeka, Shawnee County, Kansas

Project No. 14117064

Dear Mr. Moses:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment report for the above-referenced site. This assessment was performed in accordance with our proposal dated December 9, 2011.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terracon's services please visit our website at http://www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Kendra F. Caspers

Field Scientist

Bridget M. Aeschliman, P.G.

Environmental Department Manager

Attachments

Terracon Consultants Inc, 3113 SW Van Buren St Topeka, KS 66611 P [785] 267-3310 F [785] 267-3382

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Common Acronyms¹

ACMAsbestos containing material
ASTAboveground storage tank
ASTMAmerican Society for Testing and Materials
AULActivity and use limitation
BGSBelow ground surface
BTEXBenzene, toluene, ethylbenzene, and xylenes
CERCLAComprehensive Environmental Response, Compensation, and Liability Act
CFRCode of Federal Regulations
DOTUnited States Department of Transportation
EPAUnited States Environmental Protection Agency
HRECHistorical recognized environmental condition
LUSTLeaking underground storage tank
MCLMaximum contaminant level
MSDSMaterial safety data sheet
NGVDNational Geodetic Vertical Datum
NOVNotice of violation
NPLNational Priority List
NRCSUSDA Natural Resources Conservation Service
OSHAOccupational Safety and Health Administration
PCBPoly-chlorinated biphenyl
RCRAResource Conservation and Recovery Act
RECRecognized environmental condition
SHWSState Hazardous Waste Site
SPCCSpill Prevention, Control and Countermeasure
SWPPPStormwater pollution prevention plan
TEPHTotal extractable petroleum hydrocarbons
TPHTotal petroleum hydrocarbons
TVPHTotal volatile petroleum hydrocarbons
TRIToxic release inventory
TSCAToxic Substances Control Act
USGSUnited States Geological Survey
USTUnderground storage tank
VCPVoluntary cleanup program
VOCVolatile organic compound
<u>Units of measure</u>
sq ft or ft²square feet
mg/kgmilligrams per kilogram
mg/lmilligrams per liter
ug/lmicrograms per liter
1 1 1111

ppb.....parts per billion ppm.....parts per million

¹ An additional list of acronyms and definitions is included in Appendix B.

PHASE I ENVIRONMENTAL SITE ASSESSMENT HARLAN INDUSTRIAL PARK TOPEKA, SHAWNEE COUNTY, KS

Project No. 14117064 January 24, 2012

EXECUTIVE SUMMARY

This Phase I ESA was performed in accordance with our proposal dated December 9, 2011, and was conducted consistent with the procedures included in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* The ESA was conducted under the supervision or responsible charge of Bridget M. Aeschliman, P.G., Environmental Professional. Kendra F. Caspers performed the site reconnaissance on December 29, 2011.

A cursory summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

- The site is located on the northwest corner of University Drive & Topeka Boulevard in Topeka, Shawnee County, Kansas. The site is approximately 107 acres of agricultural land with no improvements. The site is currently vacant.
- During the site reconnaissance, Terracon observed one water system access point, two pole-mounted transformers, a creek, and miscellaneous trash along the banks of the creek. No RECs were identified at the time of the site reconnaissance.
- Based on review of the historical information, the site has been utilized as agricultural land with the Shunganunga Creek running through the site since at least 1942. According to the owner, he was not aware of structures being built on site. However, the historical aerial photographs identified three small objects or structures and a circular pathway located on the south side of the site between 1966 and 1976. The surrounding properties have consisted of agricultural land to the north and west, Forbes Field to the east, and industrial warehouses to the south. Due to the long term presence of industrial warehouse activities to the south of the site (since prior to 1948), potential releases associated with the industrial warehouses are considered to be a REC to the site.
- The current-day adjoining properties were observed to be the following: residential
 to the north; railroad tracks followed by Topeka Blvd. and Forbes Field to the east;
 University Drive followed by multiple industrial warehouses to the south; and Grant
 Bradbury Park to the west.
- The regulatory review identified three SHWS and one VCP facility within the specified search radii of the site. The Essex Group Inc. Pauline Plant and the Tinker Warehouse were identified south and up-gradient to the site. Both facilities currently have an "active" status. Based on their distances from the site, both facilities are not considered to be a REC to the site. Indications of RECs were not identified during the regulatory review.

Phase I Environmental Site Assessment Harlan Industrial Park Topeka, KS January 24, 2012 Terracon Project No.



Recommendations

Based on the scope of services, limitations, and findings of this assessment, Terracon identified the following REC:

■ The historical presence of industrial warehouses immediately south and upgradient from the site.

It is recommended that a limited subsurface investigation be conducted to evaluate if groundwater at the site has been impacted by this adjacent property.

PHASE I ENVIRONMENTAL SITE ASSESSMENT HARLAN INDUSTRIAL PARK TOPEKA, SHAWNEE COUNTY, KS

Project No. 14117064 January 24, 2012

1.0 INTRODUCTION

1.1 Site Description

Site Description

Site Name	Harlan Industrial Park
Site Location/Address	University Blvd & Topeka Blvd, Topeka, Shawnee County, Kansas
Land Area	Approximately 107 acres
Site Improvements	None

The site location is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. A diagram of the site and adjoining properties is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix B.

1.2 Scope of Services

This Phase I ESA was performed in accordance with our proposal dated December 9, 2011, and was conducted consistent with the procedures included in ASTM E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant gaps (if identified) are evident from reviewing the applicable scope of services and the report text.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. When appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

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Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated - but not eliminated - through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations and Significant Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, business environmental risk evaluations, or other services not particularly identified and discussed herein. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Consideration of such information is beyond the scope of this assessment. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request.
- Pertinent documents are referred to in the text of this report, and a separate reference section has not been included.
- Due to dense vegetation, the northwest corner of the site and certain areas around Shunganunga Creek could not be accessed and surface conditions could not be observed.

An evaluation of the significance of these limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to

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perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Steve Harlan & NAI Kaw Valley. Use or reliance by any other party is prohibited without the written authorization of Steve Harlan, NAI Kaw Valley and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E 1527-05 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E 1527-05.

1.6 Client Provided Information

Prior to the site visit, Mr. Steve Harlan, client's representative, provided the following information.

1.6.1 Specialized Knowledge or Experience

Mr. Harlan was not aware of specialized knowledge or experience that is material to RECs in connection with the site.

1.6.2 Actual Knowledge of Environmental Liens or AULs

Mr. Harlan did not have actual knowledge of environmental liens or AULs encumbering the site or in connection with the site.

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1.6.3 Reason for Significantly Lower Purchase Price

Mr. Harlan was not aware of a significantly lower purchase price because of the presence of hazardous substances or petroleum products.

1.6.4 Commonly Known or Reasonably Ascertainable Information

Mr. Harlan was not aware of commonly known or reasonably ascertainable information within the local community about the site that is material to RECs in connection with the site.

1.6.5 Obvious Indicators of Contamination at the Site

Mr. Harlan was not aware of obvious indicators that point to the presence or likely presence of contamination at the site.

2.0 PHYSICAL SETTING

Physical Setting

PHYSICAL SETTING IN	NFORMATION FOR SITE AND SURROUNDING AREA	SOURCE		
Topography (Refer to Appendix A for an excerpt of the Topographic Map)				
Site Elevation Surface Runoff/ Topographic Gradient	Approximately 1,005 feet (NGVD) Gently sloping toward the Shunganunga Creek located on site. The southeast portion of the site is gently sloping toward the northwest, the west portion of the site is gently sloping to the east, and the east portion of	USGS Topographic Map, Wakarusa, Kansas Quadrangle, 1983.		
Closest Surface Water	the site is gently sloping to the west. Shunganunga Creek, located on site.	Quadrangio, 1000.		
Soil Characteristics				
Soil Type	Martin silty clay loam, Ladysmith silty clay loam, & Kennebec silt loam			
Description	Martin soils have slow infiltration rates, have layers impeding downward movement of water, and have fine textures. The top 14 inches consist of silty clay loam, and between 14 and 59 inches consist of silty clay. Ladysmith soils have very slow infiltration rates, soils are clayey, have a high water table, and are shallow to an impervious layer. The top 9 inches consist of silty clay loam and between 9 and 59 inches consist of silty clay. Kennebec soils have moderate infiltration rates, moderately well drained soils, and have moderately coarse textures. The top 48 inches consist of silt loam,	Shawnee County, Kansas USDA, Natural Resources Conservation Service Soil Web Survey, 2011.		
Geology/Hydrogeology	and between 49 and 79 inches consist of silty clay loam.			
Geology/nyurogeology				

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PHYSICAL SETTING IN	SOURCE		
Formation	Pennsylvanian		
Description	Based on review of the Kansas Geological Survey (KGS) Bulletin 189, the underlying bedrock in the area of the subject property is of the Pennsylvanian System; Upper Pennsylvanian Series (Virgilian Stage) Wabunsee Group in the Time Stratigraphic Unit age classification. Alternating layers of limestone and shale with an occasional sandstone layer are common in the Pennsylvanian age stratigraphic section.	Kansas Geological Survey. "Stratigraphic Succession in Kansas", D.E. Zeller, Bulletin 189. 2005	
Estimated Depth to	A well log from a water well less than 1/2 mile	Kansas Geological	
First Occurrence of	northeast from the site reported a static water level of	Survey Water Well	
Groundwater	12.7 feet below ground surface.	Database Website, 2011.	
Primary Aquifer	Kansas River Alluvium	Geology of Eastern Shawnee County, Kansas, and Vicinity, W. Johnson, Jr., & W. L. Adkison, KGS Bulletin 1215-A, 1967.	
*Hydrogeologic			
Gradient: the Shunganunga Creek located on site.)			

^{*} The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources for indications of RECs. A summary of the historical review is included at the end of this section. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps

Readily available historical USGS topographic maps were reviewed to identify RECs in connection with the site. Reviewed historical topographic maps are summarized below.

- Burlingame, Kansas, published **1894** (1:125,000)
- Wakarusa, Kansas, published **1955** (1:24,000)
- Wakarusa, Kansas, published 1970, photorevised from 1955 (1:24,000)
- Wakarusa, Kansas, published 1975, photorevised from 1955 (1:24,000)
- Wakarusa, Kansas, published 1983 (1:24,000)
- Wakarusa, Kansas, published 2009 (1:24,000)



Historical Topographic Maps

Direction	Description				
	1894: Vacant land.				
	1955, 1970: Vacant land. Shunganunga Creek flows along the near the middle of the site.				
Site	1975: Similar to previous map, with a circle road and three square structures located on the south side of site.				
	1983: Same as previous map except the three structures are no longer located on site.				
	2009: Agricultural land and a circle driveway located on the south side of site.				
	1894: Vacant land.				
North	1955, 1970, 1975, 1983: Shunganunga Creek located north of the site. Small square				
1401411	structures located northeast. Vacant land located north.				
	2009: Agricultural land followed by a grain elevator, and residential.				
	1894: The Santa Fe railroad followed by vacant land.				
	1955, 1970: Railroad tracks followed by a main traffic way road and an intermittent creek.				
East	1975, 1983: Railroad tracks, a main traffic way road, and multiple structures with an airport facility.				
	2009: Railroad tracks followed by a highway and the Forbes Field Airport.				
	1894, 1955, 1970: Vacant land.				
South	1975, 1983: Multiple rectangular structures with railroad tracks in between the structures followed by a golf course.				
	2009: A road followed by multiple warehouses.				
West	1894: A creek followed by vacant land.				
vvest	1955, 1970, 1975, 1983, 2009: Vacant land.				

3.2 Historical Aerial Photographs

Selected historical aerial photographs from Historical Information Gatherer's (HIG) were reviewed at approximately 10 to 15 year intervals, if readily available, to obtain information concerning the history of development on and near the site. Evaluation of these aerials may be limited by a photo's quality and scale. Selected photographs are summarized below.

- HIG, **1942**, 1"=500"
- HIG, 1948, 1"=500"
- HIG, 1966, 1"=500"
- HIG, **1970**, 1"=800'
- HIG, 1976, 1"=500"
- HIG, **1982**, 1"=500"
- HIG, **1985**, 1"=500"
- HIG, **1991**, 1"=500"

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- HIG, **1996**, 1"=800"
- HIG, **2002**, 1"=500"
- HIG, **2006**, 1"=500"
- HIG, **2010**, 1"=500"

Historical Aerial Photographs

Direction	Description		
	1942: Agricultural land and a creek.1948: Similar to previous photograph. Appears to be a few gravel pathways located on the south side of site.		
	1966, 1970, 1976: Agricultural land with trees. One circle gravel path and there appears to three small buildings located south on the site.		
Site	1982, 1985: Similar to previous photographs. The rectangular buildings near the circle path are not located on site.		
	1991: Cultivated agricultural land with dense trees and a circular pathway located on the south side of site.		
	1996, 2002, 2006, 2010: Similar to previous photograph, the circular path is not very visible, however land scarring is observed from pathway.		
North	1942 , 1948 , 1966 , 1970 , 1976 , 1982 , 1985 , 1991 , 1996 , 2002 , 2006 , 2010 : Small structures that appear to be residential followed by agricultural land.		
East	 1942, 1948: Railroad tracks followed by a main traffic way road followed by small structures that appear to be commercial or industrial in nature. 1966: Similar to previous photographs with additional rectangular structures. 1970: Railroad tracks followed by a main traffic way road and multiple large and rectangular structures that appear to be industrial in nature. 1976, 1982, 1985, 1991: Similar to previous photograph. Areas located farther east of site are not shown on photograph. 1996, 2002, 2006, 2010: Railroad tracks followed by main traffic way road and road and structures that appear to be industrial in nature. Most of the building have been removed or are not shown on map. 		
South	1942: Agricultural land followed by a road. 1948, 1966, 1970, 1976, 1982, 1985, 1991, 1996, 2002, 2006, 2010: Multiple rows of industrial/commercial warehouses.		
West	1942, 1948, 1966, 1970, 1976, 1982, 1985: Agricultural land. 1991, 1996, 2002: Vacant land. 2006, 2010: Vacant grassland and an airplane landing area within the grass.		

3.3 Historical City Directories

The Polk city directories used in this study were made available through HIG (selected years reviewed: 1974-2008) and were reviewed at approximate five year intervals. Since these references are copyright protected, reproductions are not provided in this report. The current street address for the site was identified as University Drive & Topeka Blvd.

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Historical City Directories

Direction	Description		
Site	No listings		
North	No listings		
East	No listings.		
South	900 SW University Blvd: Network Computing Solutions (2008) Premier Farm & Home (2008, 2003) 6700 SW Topeka Blvd: Industrial Park (multiple businesses, see below) Agricultural Department, American Auto Detailing, American Trucking, Anderson News Co., Asset Lifecycle LLC, Belle's Delivery, BETO Junction Catering, Biz Box Inc., Brackett Inc., Cardona Coffee, Coca-Cola Bottling, MD Chemical & Testing Co. Inc., Metropolitan Topeka Airport, Mid-America Aviation (2008) Accelerated Care Plus, Agricultural Department, Airport Storage Solutions, Army National Guard, King Auto Body, Precision Auto Body, Reno Construction, Environment Division (2003) Accelerated Care Plus, Competition Auto Parts, CTL Corporation, Dodge Electronics, FGI Print Management, Forbes Juvenile Detention Center, Hot Rod Shop of Topeka, Stine Automotive Services (1998) Forbes Field Industrial Park, Capital City Distributing Inc. Forbes Sewage Pollution, Metropolitan Topeka Airport, Meier's Ready Mix, Mid-America Painting (1993) Forbes Field Industrial Park, Capital City Distributing Inc. Forbes Sewage Pollution, Metropolitan Topeka Airport, Steamatic Cleaners, PLM Railcar Maintenance, Shawnee Metal Works, Aged Auto & Body Shop (1989) Forbes Field Industrial Park, Forbes Sewage Pollution, Metropolitan Topeka Airport, Steamatic Cleaners, PLM Railcar Maintenance, Shawnee Metal Works, Aged Auto & Body Shop (1989) Forbes Field Industrial Park, Forbes Sewage Pollution, Metropolitan Topeka Airport, Environmental Labs, Allen Auto Restoration Detailing & Repair, Topeka Railway Equipment Inc. (1984) Shawnee County District Community Corrections, Stop Chemical, Firestone Stores, Forbes Athletic Building, Kansas National Guard Army Aviation, Sewell Oil Co. (1980) Burckhart Electric Co., Topeke Railway Equipment, Civil Air Patrol, US Dept. of the Air Force, United Rubber Cork Linoleum, State Dept. of Health & Environment (1974) 7215 SW Topeka Blvd: A & G Window & Doors, Air Capital Trucking, American Phoenix, Dream By Design, Fannin Fabrication Welding, Forbes I		
West	No listings.		

Multiple industrial and/or commercial facilities are identified in the historical city directories to be associated with the Forbes Field Industrial Park (east and south of the site). Some of the warehouses are located immediately south of the site. Based on the long term presence of industrial activity immediately south of the site, these facilities are considered to be a REC.

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3.4 Historical Fire Insurance Maps

Historical fire insurance maps produced by the Sanborn Map Company were requested from Environmental Data Resources Inc. (EDR) to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above listed Sanborn provider, Sanborn Maps were not available for the site. A copy of EDR's "unmapped property" letter is provided in Appendix C.

3.5 Property Tax File Information

Based on a review of information obtained from the Shawnee County online interactive map, the current site owner is the Harlan Family Trust: Harlan, Stephen & Susan R. Blanck Harlan Trustees.

3.6 Title Search

Mortgage Title Insurance Policy paperwork was provided by the Client for Terracon review. The Mortgage Title Insurance Policy for the site was completed by Columbian Title of Topeka, Inc. (Appendix C) for parcel 089-191-01-0-00-01-008.00-0 in Shawnee County, Topeka, Kansas.

The Mortgage Title Insurance Policy was issued on May 9, 2005. According to the provided policy, the current owners are Stephen R. Harlan and Susan R. Blanck-Harlan. The policy did identify utility easements on the site.

3.7 Environmental Liens

Environmental lien records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the context of this report.

3.8 Building Department Records

According to information obtained from the owner and historical review, the Site has never been developed with any structures; therefore, the building department was not contacted regarding building permits for the Site.

3.9 Zoning/Land Use Records

According to Shawnee County Appraiser's website, the site is currently zoned as I-1, Light Industrial.

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3.10 Historical Interviews

The following individual was interviewed regarding historical use of the site.

Interviewee

<u>Interviewer</u>	Interviewee/Phone #	<u>Title</u>	Date/Time
Kendra Caspers	Steve Harlan / 785.231.8701	Owner	12/30/2011

Mr. Harlan is the owner and has been associated with the site since approximately 1998. The current and historical use of the site has consisted of agricultural land. No structures have been developed on the site. The adjoining properties have historically been LKQ Automotive to the north, Topeka Blvd. to the east, warehouses to the south, and a city park to the west.

3.11 Prior Report Review

Previous environmental reports, permits and registrations, or geotechnical reports for the site were not provided by the client to Terracon for review.

3.12 Historical Use Information Summary

Based on review of the historical information, the site has been utilized as agricultural land with the Shunganunga Creek running through the site since at least 1942. According to the owner, he was not aware of structures being built on site. However, the historical aerial photographs identified three small objects or structures and a circular pathway located on the south side of the site between 1966 and 1976. The surrounding properties have consisted of agricultural land to the north and west, Forbes Field to the east, and industrial warehouses to the south. Due to the long term presence of industrial warehouse activities to the south of the site (since prior to 1948), potential releases associated with the industrial warehouses are considered to be a REC to the site.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Evaluating identified regulatory facilities for potential vapor intrusion conditions was outside the scope of this assessment. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

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In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal and State Databases

<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Listings</u>		
	Federal				
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1.0	0		
NPL (Delisted)	The NPL (Delisted) refers to facilities that have been removed from the NPL.	0.5	0		
CERCLIS	The CERCLIS database is a compilation of facilities which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the CERCLA of 1980.	0.5	0		
CERCLIS / NFRAP	CERCLIS/NFRAP refers to facilities that have been removed and archived from EPA's inventory of CERCLA sites.	0.5	0		
RCRA CORRACTS/ TSD	The EPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous waste that are undergoing "corrective action." A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1.0	0		
RCRA Non- CORRACTS/ TSD	The RCRA Non-CORRACTS/TSD Database is a compilation by the EPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	0		
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.	Site and adjoining properties	0		
IC / EC	A listing of sites with institutional and/or engineering controls in	Site	0		



<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Listings</u>
	place. IC 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. EC 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.		
	The Emergency Response Notification System (ERNS) is a listing		
ERNS	compiled by the EPA on reported releases of petroleum and	Site	0
	hazardous substances to the air, soil and/or water.		
	State		
	The Kansas Department of Health and Environment (KDHE)		
SHWS	maintains a database of state equivalent CERCLIS facilities in the	0.5	6
	state of Kansas.		
	State and/or Tribal database of solid waste facilities located within		
SWF/LF	Kansas. The database information may include the facility name,	0.5	0
	class, operation type, area, estimated operational life, and owner.		
LUST	State and/or Tribal database of leaking underground storage tanks	0.5	0
	in the state of Kansas. State and/or Tribal database of registered storage tanks in the	Site and	
UST	State of Kansas which may include the owner and location of the	adjoining	0
031	tanks.	properties	U
	Sites that have institutional control information entered into the		
IC	Identified Sites List database maintained by the KDHE.	Site	0
VCP	State and/or Tribal facilities included as Voluntary Cleanup	0.5	1
	Program sites.	0.0	'
	State and/or Tribal listing of Brownfield properties addressed by		
Brownfields	Cooperative Agreement Recipients or Targeted Brownfields	0.5	0
	Assessments.		

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities may follow the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
Essex Group Inc, Pauline Plant University Blvd. And E Street	Approximately1570 feet / south / upgradient	SHWS, VCP
Tinker Warehouse Annex (Former) Forbes Industrial Park	Approximately 1960 feet / south- southeast / up-gradient	SHWS

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Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
Forbes Field Air National Guard	Approximately 2,290 feet / northeast	SHWS
Forbes Field	/ cross-gradient	31100

Essex Group Inc. Pauline Plant

The Essex Group Inc. is approximately 1,570 feet south and up-gradient to the site. This facility is listed in the SHWS and a VCP database. This facility currently has an "active" status. The database further states.

"The proprietor of the former Pauline Plant, Essex Group, Inc. submitted an application to the Voluntary Cleanup program on July 14, 2000. Upon review, KDHE found Essex's application to be eligible as a Class III Property. The former Pauline Plant operated from 1964 to 1999 making wire by using copper rods drawn through a series of dies to desired finish size. Prior to Essex's activities on the property, the property was reported to have been used in association with the Forbes Air Force base located immediately east of the current industrial park where Essex is located. The Essex Plant ceased and closed in 1999. Essex intended to sell the property. Essex conducted at least two phases of investigation at the property. Contamination identified was mainly restricted to within the property boundaries with the exception of an acetone impact found to extend to an off-site property. Prior to completing investigation at this property, Essex declared bankruptcy. All activities have ceased."

Based on the distance from the site, this facility is not considered to be a REC to the site.

Tinker Warehouse Annex (former)

The Tinker Warehouse is located approximately 1,960 feet south and up-gradient to the site. According to the KDHE database, this facility is a SHWS and currently has an "active" status. The KDHE database further states,

"The Tinker Warehouse Annex site is one warehouse at the Topeka Air Force Station adjacent to Forbes Field. The site used to be part of the Topeka AFSTA but was transferred to Tinker AFB in Oklahoma in 1985. The site was used to store tooling equipment and spare parts for B-52s, KC-135s, and AGM-86 ALCMs. The site was sold to private owners in December 1999. The discovery date is the date that the management action plan (MAP) fact sheet was started. This site is ineligible for the DERP-FUDS program. KDHE's December, 2002 ISS recommended DOD to collect samples at the site if further information on DOD contamination at the site is found."

Based on the distance from the site, this facility is not considered to be a REC to the site.

Forbes Field Air National Guard

This facility is located approximately 2,290 feet northeast and cross-gradient to the site. According to the KDHE database, this facility is listed as a SHWS and currently has a "resolved" status. The KDHE database further states.

"Soil contamination was present at above ground bulk fuel storage area. Long-term groundwater monitoring showed no impacts to groundwater. Soil contamination below risk-based levels for human contact is present. A new building for air guard use is planned to be

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built at the site. The Final Proposed plan was approved on September 13, 2011. NFA was recommended for all 10 sites."

Based on the distance from the site and regulatory status, this facility is not considered to be a REC to the site.

The remaining facility listings do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or relative distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed 20 facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

4.2.1 Health Department/Environmental Division

The Shawnee County Environmental Health Department was contacted by email on January 13, 2012 regarding environmental records or information indicating environmental concerns for the site. At the issuance of this report, a response had not been received from the health department.

4.2.2 Fire Department

The Topeka Fire Department was contacted by email on January 13, 2012 regarding environmental records or information indicating environmental concerns for the site. At the issuance of this report, a response had not been received from the fire department.

4.2.3 Planning Department

The Shawnee County Planning Department was contacted by phone on January 16, 2012 regarding environmental records for the site. At the issuance of this report, a response had not been received from the planning department.

4.2.4 Building Permit/Inspection Department

According to information obtained from the owner and historical review, the Site has never been developed with any structures; therefore, the building department was not contacted regarding building permits for the Site.

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4.3 Records Review Summary

The regulatory review identified three SHWS and one VCP facility within the specified search radii of the site. The Essex Group Inc. Pauline Plant and the Tinker Warehouse were identified south and up-gradient to the site. Both facilities currently have an "active" status. Based on their distances from the site, both facilities are not considered to be a REC to the site. Indications of RECs were not identified during the regulatory review.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. Exhibit 2 in Appendix A is a diagram of the site. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix E. Credentials of the individuals planning and conducting the site visit are included in Appendix F.

General Site Information

Site Reconnaissance		
Field Personnel	Kendra F. Caspers	
Reconnaissance Date	December 29, 2011	
Weather Conditions	Sunny & warm	
Site Contact/Title	Steve Harlan / Owner	
Site Description		
Site Name	Harlan Industrial Park	
Site Location/Address	University Blvd & Topeka Blvd, Topeka, Shawnee County, Kansas	
Land Area	Approximately 107 acres	
Other Site Improvements	None	
Zoning	I-1, Light Industrial	
Site Topographic Relief	Gently sloping toward the Shunganunga Creek located on site. The southeast portion of the site is gently sloping toward the northwest, the west portion of the site is gently sloping to the east, and the east portion of the site is gently sloping to the west.	
Site Utilities		
Electricity	Not applicable	
Drinking Water	Not applicable	
Wastewater	Not applicable	

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Natural Gas	Not applicable
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5.2 General Description of Site, Occupants, and Operations

The site is located on the northwest corner of University Drive & Topeka Boulevard in Topeka, Shawnee County, Kansas. The site is approximately 107 acres of agricultural land with no improvements. The site is currently vacant.

5.3 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed
	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
Site Operations,	Dry cleaning	
Processes, and	Photo processing	
Equipment	Laboratory hoods and/or incinerators	
	Waste treatment systems and/or water treatment	
	systems	
	Heating and/or cooling systems	
	Other processes or equipment	X
Aboveground	Aboveground storage tanks	
Chemical or Waste	Drums, barrels and/or containers ≥ 5 gallons	
Storage	MSDS	
	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, catch basins and/or dry wells	
Underground	Grease traps	
Chemical or Waste	Septic tanks and/or leach fields	
Storage, Drainage or - Collection Systems -	Oil/water separators	
Conection Systems	Pipeline markers	
	Interior floor drains	
Electrical	Pad or pole mounted transformers and/or capacitors	X
Transformers/ PCBs	Other equipment	
	Stressed vegetation	
	Stained soil	
Dalassas au Batautial	Stained pavement or similar surface	
Releases or Potential Releases	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	

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Category	Item or Feature	Observed
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site	Surface water bodies	X
Features	Quarries or pits	
routures	Wells	

Site Operations, Processes, and Equipment

Other processes or equipment

During the site visit, Terracon observed a water system access point located near the southwest area of the site. No staining was observed around the vicinity of the access point. The water system access point is not considered to be a REC.

Electrical Transformers/ PCBs

Pad or pole mounted transformers and/or capacitors

During Terracon's site visit, two pole-mounted transformers, owned and serviced by Westar Energy, were observed; however, no information with regard to PCB content of the transformer fluids was observed. Transformers contain mineral oil which may contain minor amounts of PCB and could be considered "PCB contaminated" (PCB content of 50-500 ppm).

Westar Energy maintains responsibility for the transformers, and if the transformers were "PCB contaminated," the utility company is not required to replace the transformer fluids until a release is identified. However, no evidence of current or prior release was observed in the vicinity of the electrical equipment during the site reconnaissance.

Other Notable Site Features

Surface water bodies

Shunganunga Creek was observed to be present at the site running from north to south. No evidence of chemical sheens was observed on the surface of the waters and no noxious odors were observed at the time of the site reconnaissance. Miscellaneous trash consisting of paper cups and cans were observed along the banks of the creek. The trash does not appear to be hazardous in nature; however, Terracon recommends the proper disposal of the trash.

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5.4 Interviews Conducted During Visual Reconnaissance

An interview was not conducted during the site reconnaissance.

5.5 Site Reconnaissance Summary

During the site reconnaissance, Terracon observed one water system access point, two pole-mounted transformers, a creek, and miscellaneous trash along the banks of the creek. No RECs were identified at the time of the site reconnaissance.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	Agricultural and residential
East	Railroad tracks followed Topeka Blvd and structures associated with Forbes Field.
South	University Drive followed by multiple warehouses including Fanning Fabrication Inc., SPT Distribution Co., PT Coffee, ABC Recycling, Medventures Inc., G & K Service, and Interstate Batteries.
West	Grant Bradbury Park

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, additional services (e.g., asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, etc.) were not conducted.

8.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

8.1 Findings and Conclusions

This Phase I ESA was performed in accordance with our proposal dated December 9, 2011, and was conducted consistent with the procedures included in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* The ESA was conducted under the supervision or responsible charge of Bridget M. Aeschliman, P.G., Environmental Professional. Kendra F. Caspers performed the site reconnaissance on December 29, 2011.

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A cursory summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

- The site is located on the northwest corner of University Drive & Topeka Boulevard in Topeka, Shawnee County, Kansas. The site is approximately 107 acres of agricultural land with no improvements. The site is currently vacant.
- During the site reconnaissance, Terracon observed one water system access point, two pole-mounted transformers, a creek, and miscellaneous trash along the banks of the creek. No RECs were identified at the time of the site reconnaissance.
- Based on review of the historical information, the site has been utilized as agricultural land with the Shunganunga Creek running through the site since at least 1942. According to the owner, he was not aware of structures being built on site. However, the historical aerial photographs identified three small objects or structures and a circular pathway located on the south side of the site between 1966 and 1976. The surrounding properties have consisted of agricultural land to the north and west, Forbes Field to the east, and industrial warehouses to the south. Due to the long term presence of industrial warehouse activities to the south of the site (since prior to 1948), potential releases associated with the industrial warehouses are considered to be a REC to the site.
- The current-day adjoining properties were observed to be the following: residential
 to the north; railroad tracks followed by Topeka Blvd. and Forbes Field to the east;
 University Drive followed by multiple industrial warehouses to the south; and Grant
 Bradbury Park to the west.
- The regulatory review identified three SHWS and one VCP facility within the specified search radii of the site. The Essex Group Inc. Pauline Plant and the Tinker Warehouse were identified south and up-gradient to the site. Both facilities currently have an "active" status. Based on their distances from the site, both facilities are not considered to be a REC to the site. Indications of RECs were not identified during the regulatory review.

8.2 Recommendations

Based on the scope of services, limitations, and findings of this assessment, Terracon identified the following REC:

■ The historical presence of industrial warehouses immediately south and upgradient from the site.

It is recommended that a limited subsurface investigation be conducted to evaluate if groundwater at the site has been impacted by this adjacent property.

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9.0 DECLARATION

I, Bridget M. Aeschliman, P.G., declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a site of the nature, history, and setting of the subject site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practice set forth in 40 CFR Part 312.

APPENDIX A

Exhibit 1 - Topographic Map, Exhibit 2 - Site Diagram

APPENDIX B

Description of Terms and Acronyms

APPENDIX C

Historical Documentation

APPENDIX D

Environmental Database Information

APPENDIX E

Site Photographs

APPENDIX F

Credentials

APPENDIX G

Analytical Results

Description of Selected General Terms and Acronyms

Term/Acronym	Description
	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or as binding agents in construction materials. Inhalation of asbestos fibers has been documented to cause asbestosis (scarring of the lung), lung cancer, and mesothelioma (a cancer of the chest wall lining).
ACM	Most Federal and State agencies define ACM as a material containing more that one (1) percent asbestos, although some states, such as California, define ACM as material containing 0.1% or more asbestos. In order to determine the ACM status of suspect building materials, a minimum number of samples must be collected and analyzed, depending on the type and quantity of the suspect material. A suspect material can only be confirmed as non-ACM when analytical results of all required samples are below applicable regulatory limits. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. An asbestos containing material may be classified as either friable or non-friable. Friable materials are those that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM are materials in which the asbestos fibers are more firmly bound in a matrix of tar, plastic or other such material, and which have a lower potential for asbestos fiber release.
	Federal and State regulations require that that an asbestos survey be performed prior to renovation, dismantling, demolition or other activities that may disturb suspect or confirmed ACM unless such materials are removed as ACM prior to planned disturbances. ACM removal may also be required if confirmed ACM becomes damaged, or if renovation or demolition activities could result in damage to confirmed or suspect ACM. Depending upon the quantity, notification to Federal or State regulatory agencies may be required prior to ACM removal (abatement) operations. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with applicable federal, state, or local regulations. OSHA worker protection regulations will also apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Above Ground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
AULs	Activity and Use Limitations
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethyl benzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CFR	Code of Federal Regulations
CESQG	Conditionally exempt small quantity generators.
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment

Description of Terms and Acronyms (cont.)

Term/Acronym	Description
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clear Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term does not include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
IC / EC	Industrial Controls / Engineering Controls
ILP	Innocent Landowner Program
IOP	Innocent Owner/Operator Program
LQG	Large quantity generators.
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a groundwater cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NGVD	National Geodetic Vertical Datum
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	National Priorities List, as more particularly described under the Records Review section of this report.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
РСВ	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/l	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)

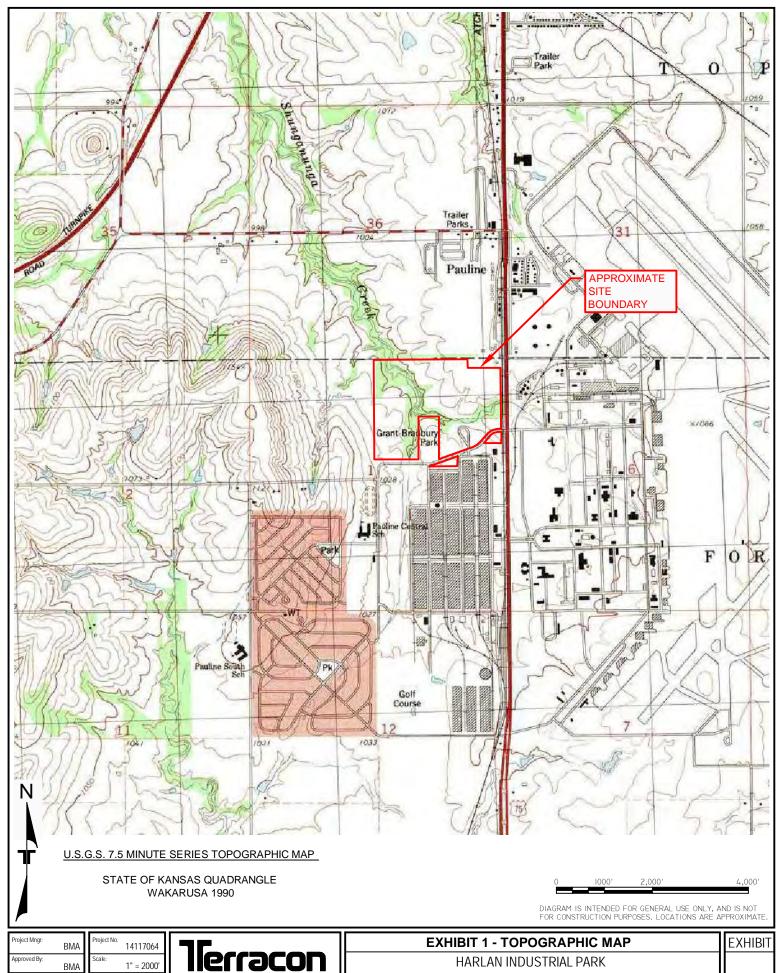
Term/Acronym	Description
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and groundwater. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA generators list is part of the RCRIS database maintained by EPA and lists facilities that generate hazardous waste as part of their normal business operations, as more particularly defined under Section 5.0 of this report.
RCRA CORRACTS/TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials, which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities, which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the
CORRACTS/TSDs	RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against
Violators List	facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E 1527-05 as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property." The term includes hazardous substances or petroleum products even under conditions of compliance with laws. The term is not intended to include <i>de minimis</i> conditions that generally do not present a material risk of harm to the 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.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small quantity generators.
SWF	Solid Waste Facility. Landfills listed by a state database.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers

Term/Acronym	Description
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E 1527-05, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
	Areas that are typically saturated with surface or groundwater that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.
Wetlands	The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U.S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.

Kansas	Description
Term/Acronym	
SHWS	The Kansas Department of Health and Environment (KDHE) maintains a database of state equivalent CERCLIS facilities in the state of Kansas.
SWF/LF	State and/or Tribal database of solid waste facilities located within Kansas. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
LUST	State and/or Tribal database of leaking underground storage tanks in the state of Kansas.
UST	State and/or Tribal database of registered storage tanks in the State of Kansas which may include the owner and location of the tanks.
IC	Sites that have institutional control information entered into the Identified Sites List database maintained by the KDHE.
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
Brownfields	State and/or Tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.

APPENDIX A

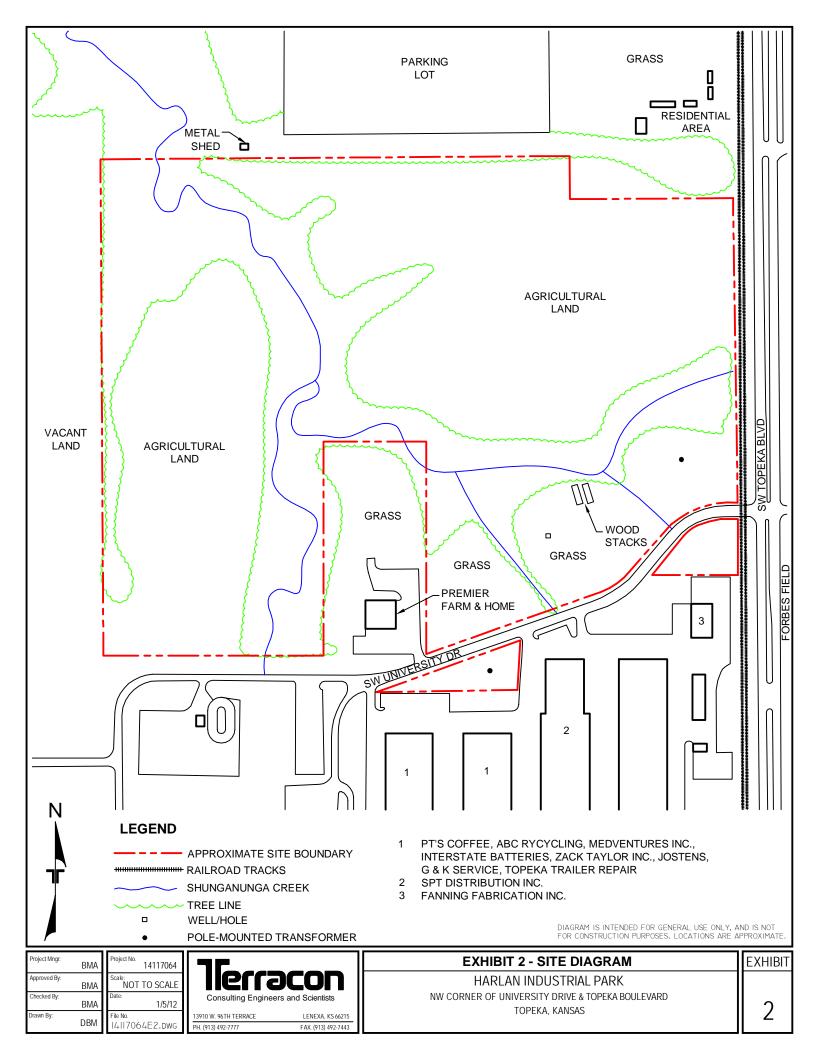
Exhibit 1 - Topographic Map, Exhibit 2 - Site Diagram



BMA 1/5/12 Drawn By: DBM 14117064E1.DWG

13910 W. 96TH TERRACE LENEXA, KS 66215

NW CORNER OF UNIVERSITY DRIVE & TOPEKA BOULEVARD TOPEKA, KANSAS



APPENDIX B

Description of Terms and Acronyms

Description of Selected General Terms and Acronyms

Term/Acronym	Description
	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or as binding agents in construction materials. Inhalation of asbestos fibers has been documented to cause asbestosis (scarring of the lung), lung cancer, and mesothelioma (a cancer of the chest wall lining).
ACM	Most Federal and State agencies define ACM as a material containing more that one (1) percent asbestos, although some states, such as California, define ACM as material containing 0.1% or more asbestos. In order to determine the ACM status of suspect building materials, a minimum number of samples must be collected and analyzed, depending on the type and quantity of the suspect material. A suspect material can only be confirmed as non-ACM when analytical results of all required samples are below applicable regulatory limits. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. An asbestos containing material may be classified as either friable or non-friable. Friable materials are those that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM are materials in which the asbestos fibers are more firmly bound in a matrix of tar, plastic or other such material, and which have a lower potential for asbestos fiber release.
	Federal and State regulations require that that an asbestos survey be performed prior to renovation, dismantling, demolition or other activities that may disturb suspect or confirmed ACM unless such materials are removed as ACM prior to planned disturbances. ACM removal may also be required if confirmed ACM becomes damaged, or if renovation or demolition activities could result in damage to confirmed or suspect ACM. Depending upon the quantity, notification to Federal or State regulatory agencies may be required prior to ACM removal (abatement) operations. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with applicable federal, state, or local regulations. OSHA worker protection regulations will also apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Above Ground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
AULs	Activity and Use Limitations
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethyl benzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CFR	Code of Federal Regulations
CESQG	Conditionally exempt small quantity generators.
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment

Term/Acronym	Description
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clear Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term does not include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
IC / EC	Industrial Controls / Engineering Controls
ILP	Innocent Landowner Program
IOP	Innocent Owner/Operator Program
LQG	Large quantity generators.
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a groundwater cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NGVD	National Geodetic Vertical Datum
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	National Priorities List, as more particularly described under the Records Review section of this report.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
РСВ	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/l	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)

Term/Acronym	Description
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and groundwater. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA generators list is part of the RCRIS database maintained by EPA and lists facilities that generate hazardous waste as part of their normal business operations, as more particularly defined under Section 5.0 of this report.
RCRA CORRACTS/TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials, which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities, which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the
CORRACTS/TSDs	RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against
Violators List	facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E 1527-05 as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property." The term includes hazardous substances or petroleum products even under conditions of compliance with laws. The term is not intended to include <i>de minimis</i> conditions that generally do not present a material risk of harm to the 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.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small quantity generators.
SWF	Solid Waste Facility. Landfills listed by a state database.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers

Term/Acronym	Description
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E 1527-05, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
	Areas that are typically saturated with surface or groundwater that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.
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Kansas	Description
Term/Acronym	
SHWS	The Kansas Department of Health and Environment (KDHE) maintains a database of state equivalent CERCLIS facilities in the state of Kansas.
SWF/LF	State and/or Tribal database of solid waste facilities located within Kansas. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
LUST	State and/or Tribal database of leaking underground storage tanks in the state of Kansas.
UST	State and/or Tribal database of registered storage tanks in the State of Kansas which may include the owner and location of the tanks.
IC	Sites that have institutional control information entered into the Identified Sites List database maintained by the KDHE.
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
Brownfields	State and/or Tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.

APPENDIX C

Historical Documentation

2. CONTINUATION OF INSURANCE. (a) After Acquisition of Title. The coverage of this policy

Columbian Title of Topeka, Inc.

2655 SW Wanamaker Rd. Topeka, KS 66614 Phone (785) 232-0548 Fax (785) 232-0548

Agent For

First American Title Insurance Company of Kansas

MORTGAGE TITLE INSURANCE POLICY

Schedule A

File Number 00565965

Policy Number: LP 60012380

Date of Policy: May 9, 2005 at 8:58 A.M.

Amount of Insurance \$164,000.00

1. Name of Insured:

Frontier Farm Credit, FLCA, it's successors and/or assigns

2. The estate or interest in the land which is encumbered by the insured mortgage is:

Fee Simple

3. Title to the estate or interest in the land is vested in:

Stephen R. Harian and Susan R. Blanck-Harlan, Husband and Wife

4. The insured mortgage and the assignments thereof, if any, are described as follows:

Mortgage to secure a note in the amount of \$164,000.00, and any other amounts payable under the terms thereof, and on the terms, covenants and conditions therein provided dated May 3, 2005, executed by Stephen R. Harlan and Susan R. Blanck-Harlan, Husband and Wife, in favor of Frontier Farm Credit FCLA, recorded May 9, 2005, at 8:58 A.M., in Book 4195, Page 684.

5. The land referred to in this Policy is described as follows:

See Exhibit A attached hereto and made a part hereof.

Exhibit A

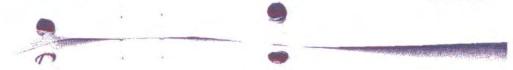
Tract 1:

A parcel of land situated in the Northeast Quarter of Section 1, Township 13 South, Range 15 East of the Sixth Principal Meridian, Shawnee County, Kansas, more particularly described as follows: Beginning at the Northwest corner of the Southeast Quarter of said Northeast Quarter of Section 1; thence South 89 Degrees 37 Minutes 40 Seconds East, 1283.15 feet; (also described as North 89 Degrees 43 Minutes 07 Minutes West 1281.95 feet) thence South 0 Degrees 25 Minutes 56 Seconds East, 486.2 feet; thence South 89 Degrees 34 Minutes 04 Seconds West, 250.00 feet; thence South 57 Degrees 18 Minutes 30 Seconds West, 211.93 feet; thence South 77 Degrees 21 Minutes 32 Seconds West, 507.86 feet; thence South 0 Degrees 25 Minutes 56 Seconds East, 261.65 feet; thence South 89 Degrees 34 Minutes 04 Seconds West, 984.58 feet; thence North 0 Degrees 22 Minutes 30 Seconds West, 170 feet; thence South 89 Degrees 35 Minutes 40 Seconds East, 624.45 feet; thence North 0 Degrees 13 Minutes 50 Seconds West, 825.00 feet (also described as North 0 Degrees 12 Minutes 39 Seconds West 823.48 feet) to the point of beginning, less street right of way.

Tract 2

The Northeast Quarter of Section 1, Township 13 South, Range 15 East of the 6th P.M., in Shawnee County, Kansas, except railroad right of way, and except the following described tracts: (1) The South 30 acres of said-Quarter Section that lies North of the North line of the road along the South line of said Quarter Section and which lies West of the West line of A, T, & S.F.R. right of way; and (2) the North 25 acres of the Southeast Quarter of said Quarter Section, except railroad right of way .94 acres along the East side thereof, and less the following described tract:

A tract of land in the Northeast Quarter of Section 1, Township 13 South, Range 15 East of the 6th P.M., in Shawnee County, Kansas, described as follows: Commencing at the Northeast corner of Section 1; thence South 89 Degrees 28 Minutes 52 Seconds West, 50.16 feet along the North line of said Section for the point of beginning; thence South 0 Degrees 27 Minutes 20 Seconds East, 200.00 feet along the Westerly right of way of the Atchison, Topeka, and Santa Fe Railroad; thence South 89 Degrees 28 Minutes 52 Seconds West, 653.40 feet; thence North 0 Degrees 27 Minutes 20 Seconds West, 200.00 feet; thence North 89 Degrees 28 Minutes 52 Seconds East, 653.40 feet along the North line of said Quarter to the point of beginning. Also an easement for ingress and egress as set out in Book 1981 Page 777 and except a tract of land in the Northeast Quarter of Section 1, Township 13 South, Range 15 East of the 6th P.M., in Shawnee County, Kansas, described as follows: Beginning at the Southwest corner of said Northeast Quarter; thence North 0 Degrees 16 Minutes 44 Seconds West, 492.69 feet and South 89 Degrees 37 Minutes 01 Seconds East 900.83 feet to the true point of beginning; thence South 89 Degrees 37 Minutes 01 Seconds West, 423.17 feet; thence North 0 Degrees 12 Minutes 39 Seconds East, 823.48 feet; thence North 89 Degrees 37 Minutes 01 Seconds West, 423.17 feet; thence South 0 Degrees 12 Minutes 39 Seconds East, 823.48 feet to the true point of beginning.



MORTGAGE TITLE INSURANCE POLICY

SCHEDULE B

File Number: 00565965 Policy No. LP 60012380

This Policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

- 1. General Taxes for the year 2004, and all subsequent years and special assessments due or payable therewith.
- 2. Rights or claims of parties in possession not shown by the public records.
- Encroachments, overlaps, boundary line disputes, shortages in area or other matters which would be disclosed by an accurate survey or inspection of the premises.
- 4. Easements or claims of easements not shown by the public records.

gracerd.

- 45. Any liens, or right to a lien, for services, labor, or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
- 6. Existing Roads and Highways. (Tract 1)
- Easements, rights of way or reservations as set out in Book 1882 Page 43, 2045 Page 817, Book 2045 Page 827 and Book 3688 Page 85. (Tract 1)
- 8. Right of Way Grant to Kansas Power and Light Company as set out in Book 1987 Page 456. (Tract 1)
- Any interest of U.S.A., G.S.A., or other agencies, as set out in Deed without Warranty in Book 1882 Page 43. (Tract 1)
- 10. Easement to The Gas Service Company as set out in Book 2056 Page 894. (Tract 1)
- 11. Right of Way to Kansas Power and Light Company as set out in Book 2080 Page 350. (Tract 1)
- Contract #11113 between the City of Topeka and Lario Enterprises, Inc., as set out in Book 2100 Page 698. (Tract
 1)
- Deed of Easement to Metropolitan Topeka Airport Authority for sanitary sewer as set out in Book 2120 Page 747.
- Assignment for sanitary sewer easement to Metropolitan Topeka Airport Authority as set out in Book 2120 Page 749. (Tract 1)
- 15. Deed of Release between U.S.A., and City of Topeka as recorded in Book 1990 Page 210. (Tract 1)
- Deed of Release for gas distribution between The City of Topeka and Federal Aviation Administration as set out in Book 2300 Page 466. (Tract 1)
- 17. Easement to Southwestern Bell Telephone as set out in Book 2770 Page 399. (Tract 1)
- 18. Right of Way casement for utility service to the City of Topeka as set out in Book 2100 Page 708. (Tract 1)
- Leases by and between Forbes Industrial Park Limited Partnership and the United States Postal Service as set out in Book 2307 Page 857, Book 2309 Page 443; Book 2321 Page 959; Book 2404 Page 138; Book 2572 Page 437; Book 2589 Page 736; Book 2647 Page 5, Book 2965 Page 856 and Book 4043 Page 779. Exact location not shown. (Tract 1)
- Easement to Pacific Mutual Telegraph Company; said easement being 50 feet by 2700 feet in the East half of the Northeast Quarter of Section 1, Township 13 South, Range 15 East of the 6th P.M., in Shawnee County, Kansas, as

PA 20 ALTA Loan Policy (10-17-92)

SCHEDULE C - continued

File Number: 00565965 Policy No. LP 60012380

condemned in Report recorded in Book 135 Page 331. (Tract 2)

- 21. Oil and Gas Lease to George W. Veale and C.K. Holliday, Trustees as set out in Book 304 Page 376. (Tract 2)
- 22. Right of Way Easement granted to United States for utility facilities over areas specified as set out in Book 1980 Page 368 and re-recorded in Book 1983 Page 688. (Tract 2)
- Easement Agreement by and between the United States and Stewart L. Paul as set out in Book 1981 Page 777.
 (Tracts 1 and 2)
- 24. Disclaimer Agreement by and between Stewart L. Paul and the United States as set out in Book 1981 Page 775.
- 25. Easement for ingress/egress as set out in Book 3214 Page 882. (Tract 2)
- 26. Easement to the City of Topeka for sanitary sewer as set out in Book 3437 page 942. (Tracts 1 and 2)

Harlan Industrial Park

Nw Corner of University Dr. & Topeka Blvd Topeka, KS 66619

Inquiry Number: 3231157.3

December 28, 2011

Certified Sanborn® Map Report



Certified Sanborn® Map Report

12/28/11

Site Name: Client Name:

Harlan Industrial Park Nw Corner of University Dr. &

Topeka, KS 66619

Terracon, Inc. 3113 S.W. Van Buren Street

Topeka, KS 66611

EDR Inquiry # 3231157.3 Contact: Kendra Caspers



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Terracon, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Harlan Industrial Park

Address: Nw Corner of University Dr. & Topeka Blvd

City, State, Zip: Topeka, KS 66619

Cross Street:

P.O. # NA

Project: 14117064

Certification # 2AD3-4BAF-BA73



Sanborn® Library search results Certification # 2AD3-4BAF-BA73

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.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, 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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Summary of Historical Research

Site Location

Harlan Industrial Park University Drive & Topeka Boulevard Topeka, KS Conducted For

Terracon Consultants, Inc. 3113 SW Van Buren Street Topeka, KS

HIG Project Number:

MBB-5893

Completion Date:

12/29/11

Historical Information Gatherers, Inc. (HIG) researches and obtains data from numerous sources and publishers.

This Summary of Historical Research presents a summary of the services requested and a list of the data provided by HIG for the above

referenced site. When a particular product or service was requested but not available, the research conducted by HIG is summarized below. Please see page 2 for HIG's Disclaimer & Waiver of Liability and Copyright Notices.

Services	

Requested: Aerial Photography: Aerial Photographs from the years listed below are provided for the site location. The year and scale of each photograph is provided on the photograph title block.

- 1942, 1948, 1966, 1970, 1976, 1982, 1985, 1991, 1996, 2002, 2006, 2010.
- City Directories: HIG researched City Directory coverage for the site, with the following results:

The following City Directory(s) were located and provided for the streets and years listed:

Polk Topeka Directories, 1926-2008. Topeka Boulevard SW, 1974-2008 SW 65th Street, 1974-2008 University Boulevard, 2003-2008

USGS Topographic Maps:

- FIM+: HIG researched available Fire Insurance and similar maps. See attached report for complete details.
- Additional Maps:
 - **Well Information:** Well Records and/or Location Maps are provided for wells that may be located on or near the site. This well information was obtained from the following source(s):
 - **Property Records Review:** HIG researched information pertaining to the site at local government offices. A summary of this research and the corresponding documents are included in the attached Summary of Local Government Records.
 - **Regulatory Database Report:** GeoSearch has prepared a Radius Report for the site. The report includes all databases and search radii required to comply with the AAI rule and ASTM Standard for Phase I Environmental Assessments. Please see full report for details on database and radii included for the site.



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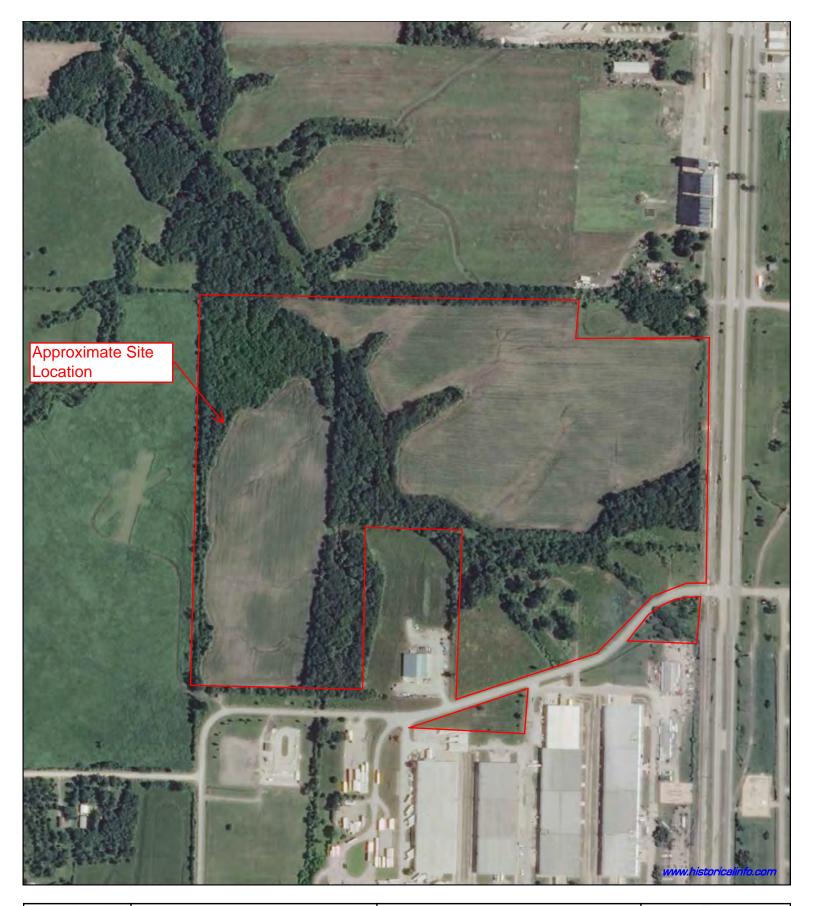
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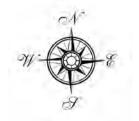




2010

HIG Project Number: MBB-5895

Client Project Number: 14117064







2006

HIG Project Number: MBB-5895

Client Project Number: 14117064







2002

HIG Project Number: MBB-5895

Client Project Number: 14117064







1996

HIG Project Number: MBB-5895

Client Project Number: 14117064





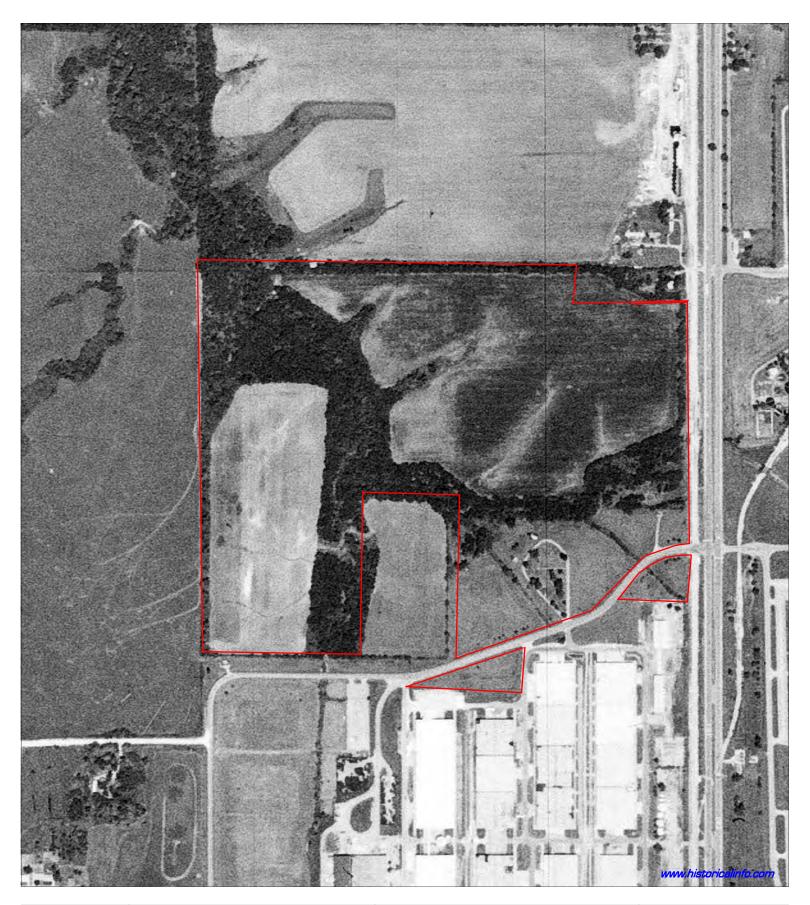


1991

HIG Project Number: MBB-5895

Client Project Number: 14117064







1985

HIG Project Number: MBB-5895

Client Project Number: 14117064







1982

HIG Project Number: MBB-5895

Client Project Number: 14117064





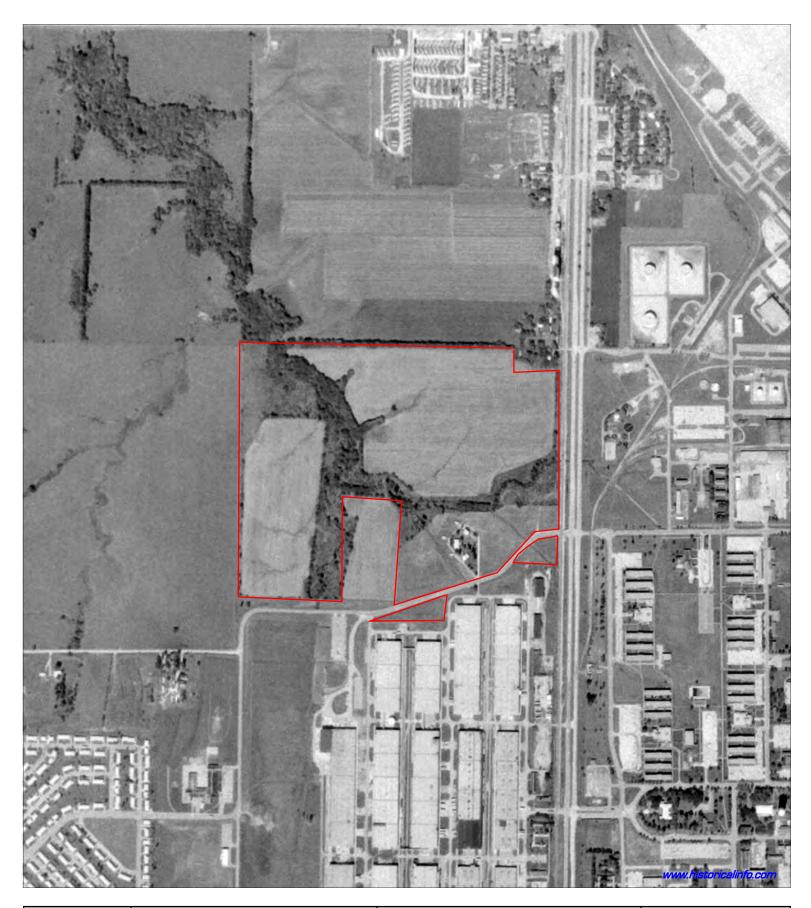


1976

HIG Project Number: MBB-5895

Client Project Number: 14117064





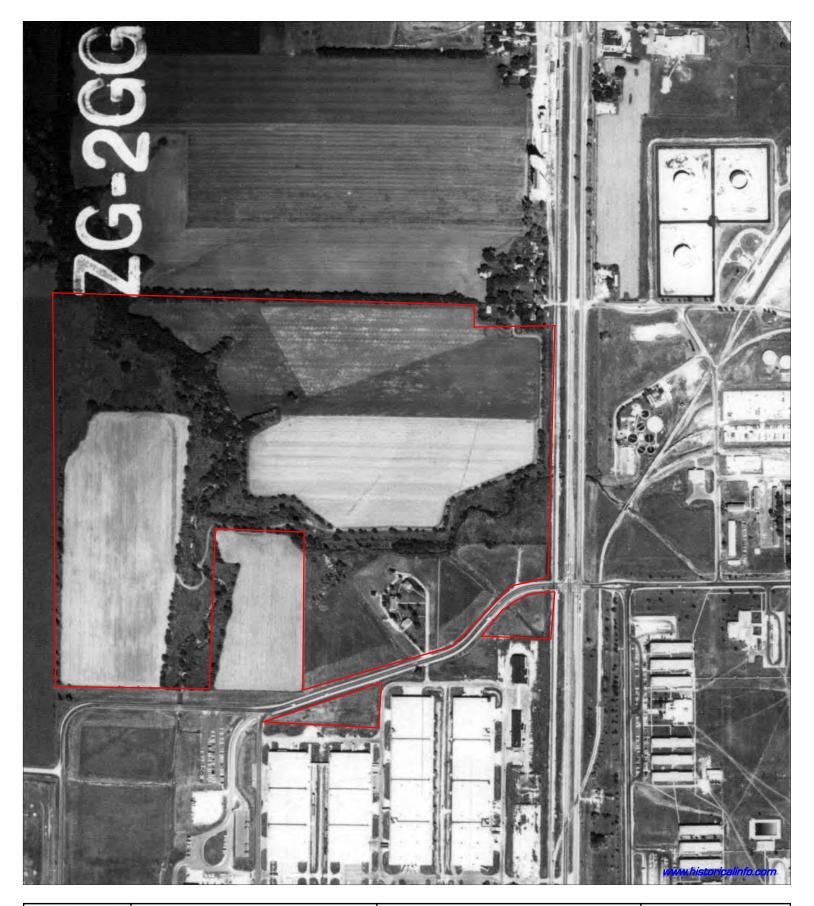


1970

HIG Project Number: MBB-5895

Client Project Number: 14117064







1966

HIG Project Number: MBB-5895

Client Project Number: 14117064







1948

HIG Project Number: MBB-5895

Client Project Number: 14117064







1942

HIG Project Number: MBB-5895

Client Project Number: 14117064



Harlan Industrial Park

Nw Corner of University Dr. & Topeka Blvd Topeka, KS 66619

Inquiry Number: 3231157.4

December 28, 2011

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

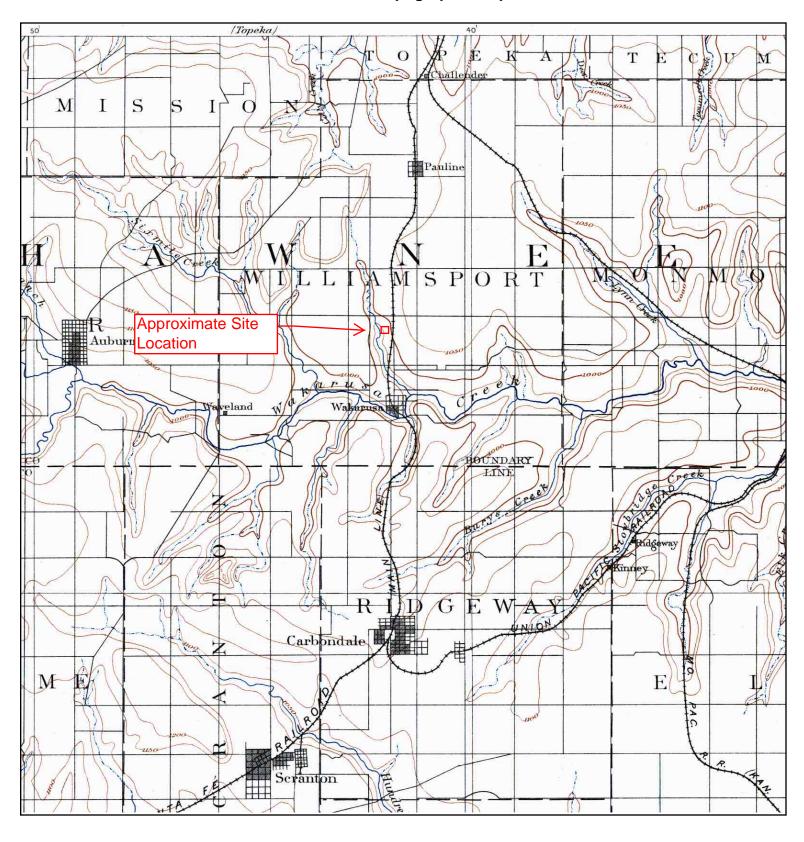
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Historical Topographic Map





TARGET QUAD

NAME: BURLINGAME

MAP YEAR: 1894

SERIES: 30

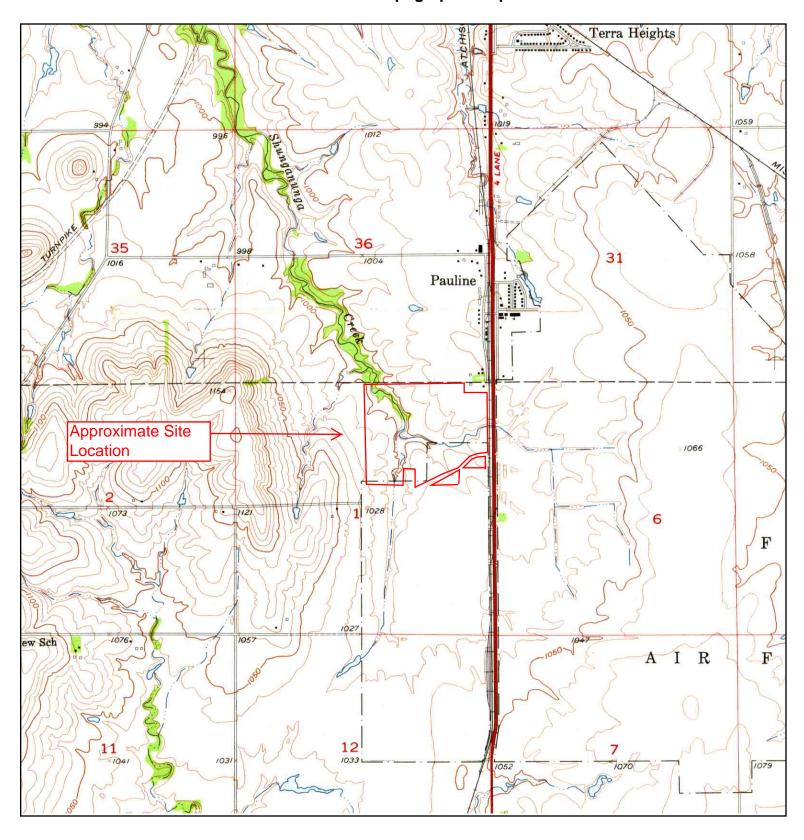
SCALE: 1:125000

SITE NAME: Harlan Industrial Park

ADDRESS: Nw Corner of University Dr. &

Topeka Blvd

Topeka, KS 66619 LAT/LONG: 38.9548 / -95.6933 CLIENT: Terracon, Inc.
CONTACT: Kendra Caspers
INQUIRY#: 3231157.4
RESEARCH DATE: 12/28/2011





TARGET QUAD

NAME: WAKARUSA

MAP YEAR: 1955

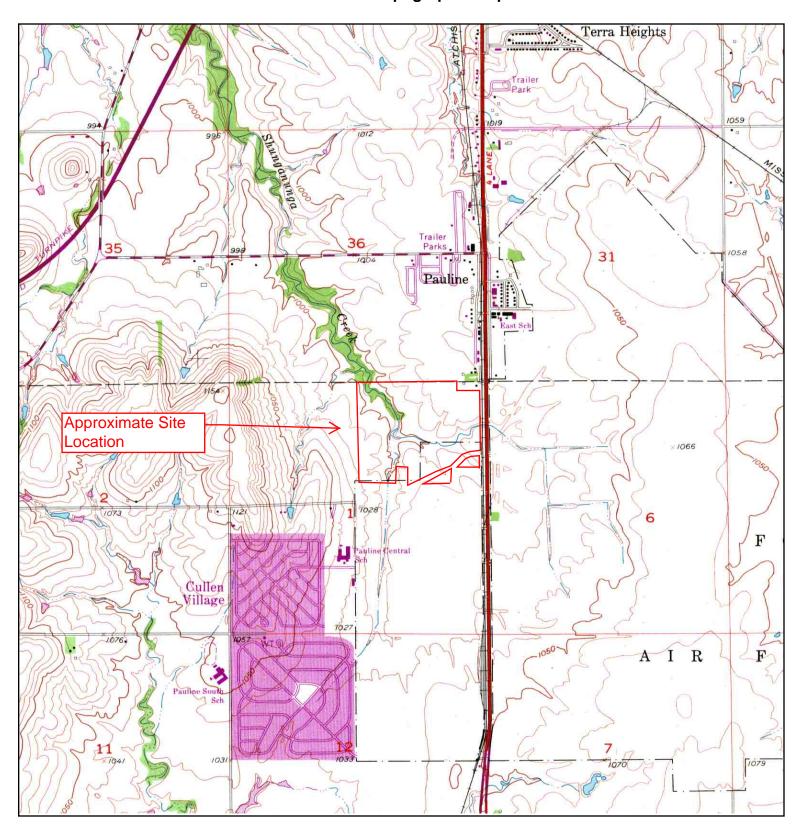
SERIES: 7.5 SCALE: 1:24000 SITE NAME: Harlan Industrial Park

LAT/LONG:

ADDRESS: Nw Corner of University Dr. &

Topeka Blvd

Topeka, KS 66619 38.9548 / -95.6933





TARGET QUAD

NAME: WAKARUSA MAP YEAR: 1970

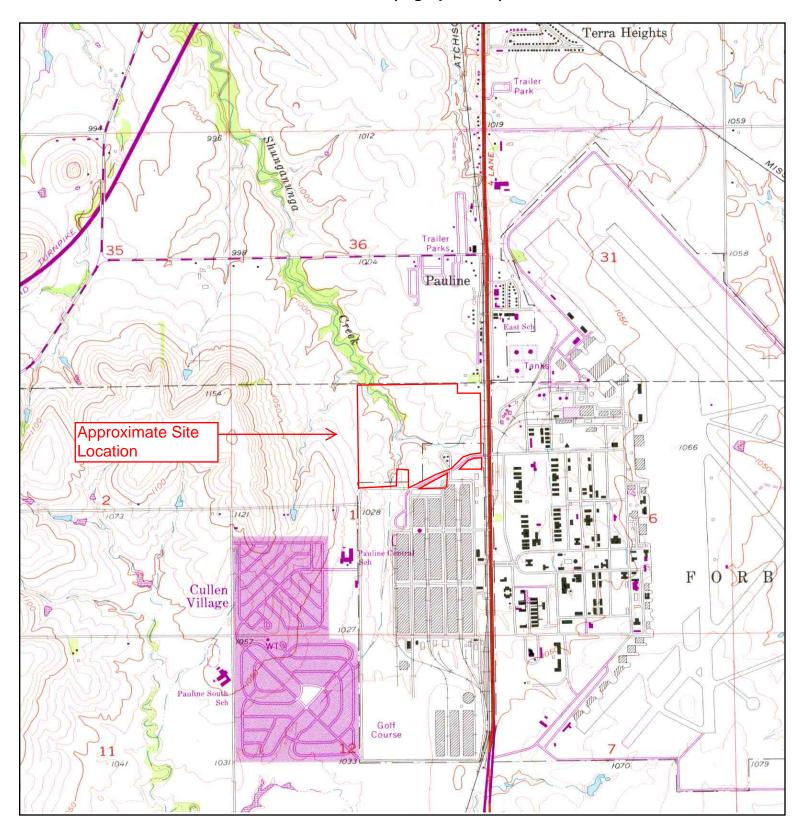
PHOTOREVISED FROM:1955

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Harlan Industrial Park

ADDRESS: Nw Corner of University Dr. &

Topeka Blvd

Topeka, KS 66619 LAT/LONG: 38.9548 / -95.6933





TARGET QUAD

NAME: WAKARUSA

MAP YEAR: 1975

PHOTOREVISED FROM:1955

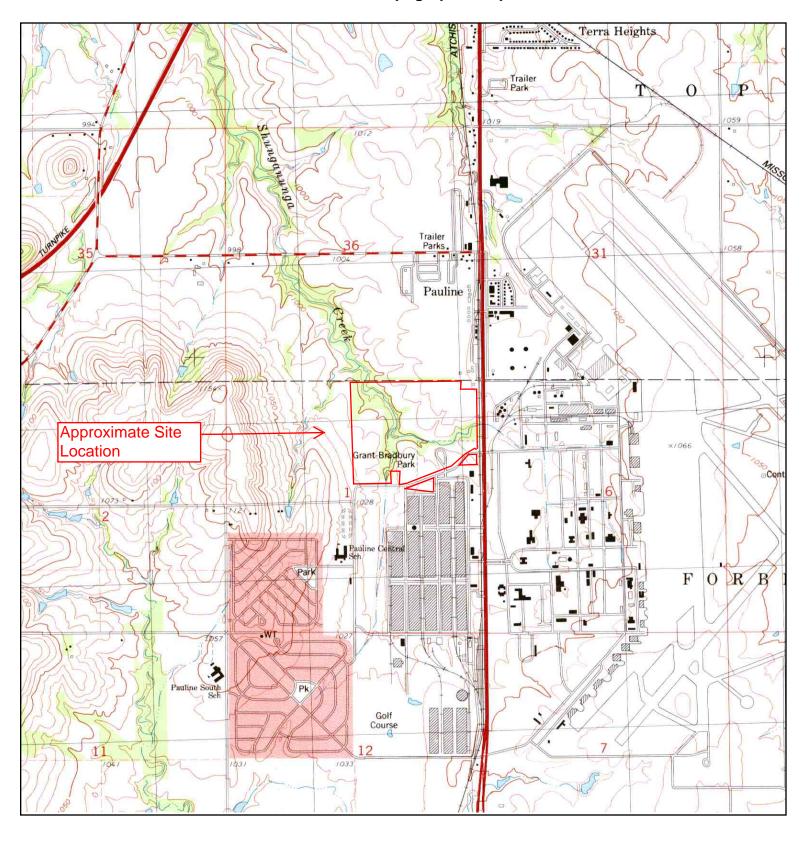
SERIES: 7.5 SCALE: 1:24000 SITE NAME: Harlan Industrial Park

LAT/LONG:

ADDRESS: Nw Corner of University Dr. &

Topeka Blvd

Topeka, KS 66619 38.9548 / -95.6933





TARGET QUAD

NAME: WAKARUSA

MAP YEAR: 1983

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Harlan Industrial Park

ADDRESS: Nw Corner of University Dr. &

Topeka Blvd

LAT/LONG:

Topeka, KS 66619 38.9548 / -95.6933

APPENDIX D

Environmental Database Information

Harlan Industrial Park

Nw Corner of University Dr. & Topeka Blvd Topeka, KS 66619

Inquiry Number: 3231157.2s

December 28, 2011

The EDR Radius Map™ Report with GeoCheck®

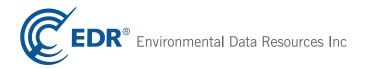


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Government Records Searched/Data Currency Tracking	GR-1
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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties 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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NW CORNER OF UNIVERSITY DR. & TOPEKA BLVD TOPEKA, KS 66619

COORDINATES

Latitude (North): 38.954800 - 38° 57' 17.3" Longitude (West): 95.693300 - 95° 41' 35.9"

Universal Tranverse Mercator: Zone 15 UTM X (Meters): 266610.0 UTM Y (Meters): 4315003.0

Elevation: 1003 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38095-H6 WAKARUSA, KS

Most Recent Revision: 1983

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2010 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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

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

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

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 RCRA-SQG RCRA - Small Quantity Generators

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

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 landfill and/or solid waste disposal site lists

SWF/LF...... Directory of Sanitary Landfills, Solid Waste Transfer Stations and Collector in

Kansas

State and tribal leaking storage tank lists

LUST...... Leaking Underground Storage Tank Data LAST..... Leaking Aboveground Storage Tanks

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

State and tribal registered storage tank lists

UST....... Underground Storage Tank Data

FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

INST CONTROL..... Institutional Controls Information

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP.....Identified Sites List

State and tribal Brownfields sites

BROWNFIELDS..... Identified Sites List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

INDIAN ODI_____ Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

..... Clandestine Drug Labs

AOCONCERN..... Area of Concern

CDL...... Clandestine Laboratory Data

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS.....Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... Kansas Spills Database

Other Ascertainable Records

RCRA-NonGen_____RCRA - Non Generators DOT OPS..... Incident and Accident Data

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD...... Records Of Decision UMTRA..... Uranium Mill Tailings Sites MINES..... Mines Master Index File

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

FINDS______Facility Index System/Facility Registry System
RAATS_____RCRA Administrative Action Tracking System
UIC_____Underground Injection Wells Database Listing

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

PCB TRANSFORMER...... PCB Transformer Registration Database

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

COAL ASH...... Coal Ash Disposal Site Listing

FINANCIAL ASSURANCE.... Financial Assurance Information Listing COAL ASH DOE........... Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

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.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites 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. The data come from the Department of Health & Environment's list: Summary of Bureau of Environmental Remediation Sites in Kansas.

A review of the SHWS list, as provided by EDR, and dated 10/31/2011 has revealed that there are 7

SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ESSEX GROUP, INC. Facility Status: Active Facility Status: Active *Additional key fields are available in the N	UNIVERSITY BLVD. & E ST Map Findings section	SSE 1/2 - 1 (0.574 mi.)	1	7
TINKER WAREHOUSE ANNEX (FORMER Facility Status: Active Facility Status: Active	FORBES INDUSTRIAL PARK	SSE 1/2 - 1 (0.635 mi.)	2	11
FORBES FIELD AIR NATIONAL GUAR Facility Status: Resolved Facility Status: Resolved *Additional key fields are available in the N	FORBES FIELD Map Findings section	NE 1/2 - 1 (0.659 mi.)	3	13
TOPEKA AIR FORCE STATION Facility Status: Active Facility Status: Active *Additional key fields are available in the N	ROUTE 75, JUST WEST OF Map Findings section	SSE 1/2 - 1 (0.752 mi.)	4	18
FORBES AFB Facility Status: Active Facility Status: Active *Additional key fields are available in the M	FORBES FIELD Map Findings section	ESE 1/2 - 1 (0.876 mi.)	6	25
PAULINE FARM STORE (FORMER FCA Facility Status: Active Facility Status: Active *Additional key fields are available in the Machine Research Page 14 (1997).	,	NNE 1/2 - 1 (0.881 mi.)	7	37
CHEMCO INDUSTRIES Facility Status: Active Facility Status: Active *Additional key fields are available in the M	FORBES FIELD BLD 638 Map Findings section	ESE 1/2 - 1 (0.959 mi.)	8	44

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORBES AIR FORCE BASE		0 - 1/8 (0.000 mi.)	0	7

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 12/31/2009 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TOPEKA AIR FORCE STATION		SSE 1/2 - 1 (0.808 mi.)	5	24

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
-----------	-------------

FORBES FIELD - ANG

ARMED FORCES RESERVE CTR
FOE ATCT

KS AIR NAT'L GUARD 190TH ARW/E

MTAA FACILITY #132

CERCLIS

AST

AST

AST

AST

MIAA FACILITY #132

FANNIN FABRICATION CO INC

TOPEKA METAL SPECIALTIES INC

TOPEKA RAILWAY EQUIPMENT INC

PT'S COFFEE CO

KGS ODORANT STA FORBES FIELD

TOPEKA WASTE SYS

FINDS,RCRA-NLR

FINDS,RCRA-NLR

TOPEKA WASTE SYS

FINDS,RCRA-NLR

M D CHEMICAL & TESTING INC
SERVICEMASTER
TRANSCISCO RAIL SVC CO
AGED AUTO
FINDS,RCRA-NLR
FINDS,RCRA-NLR
FINDS,RCRA-NLR
FINDS,RCRA-CESQG,MANIFEST

KDAG LAB FINDS,RCRA-CESQG METROPOLITAN TOPEKA AIRPORT AUTH FINDS,RCRA-CESQG HASS FINDS,RCRA-CESQG

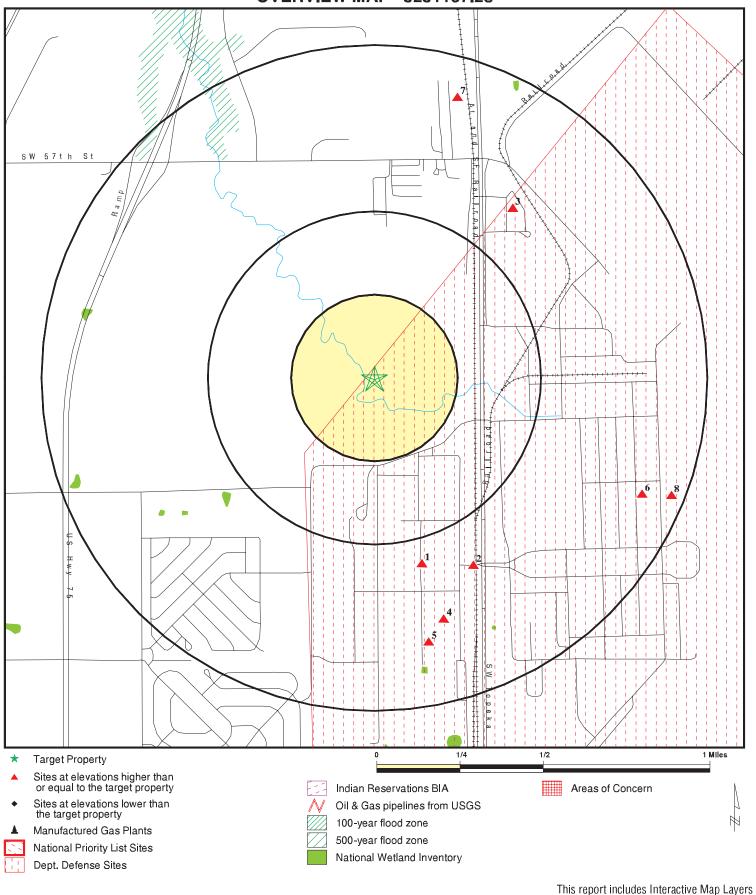
IN GAGE PARK (GAGE BLVD)

IN GAGE PARK (GAGE BLVD)

ERNS

ERNS

OVERVIEW MAP - 3231157.2s



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

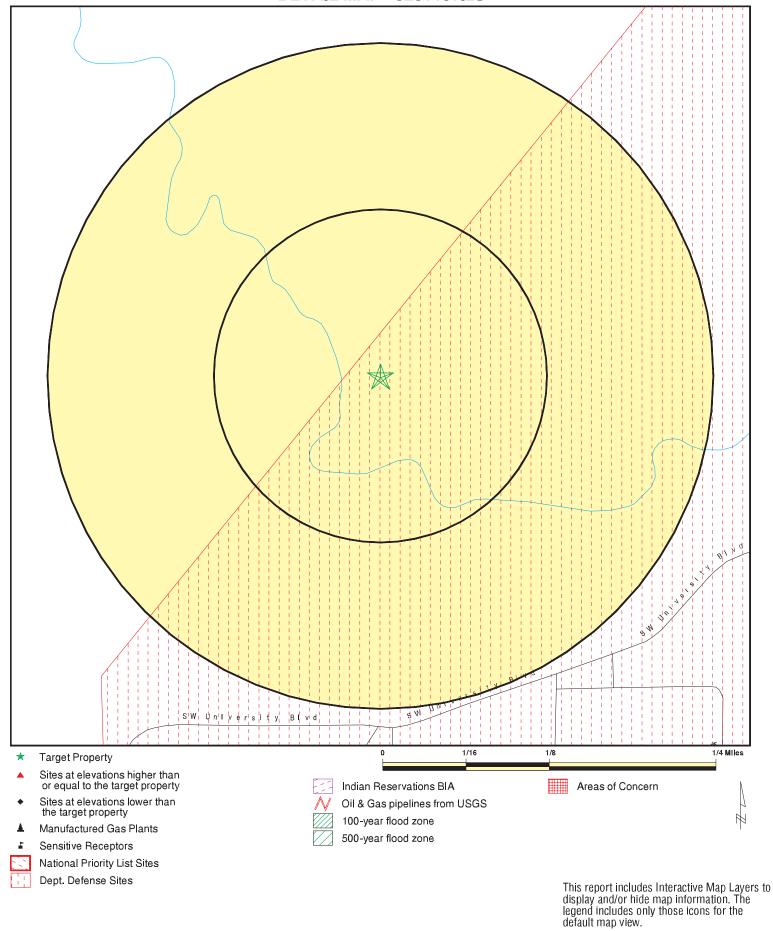
SITE NAME: Harlan Industrial Park

ADDRESS: Nw Corner of University Dr. & Topeka Blvd

Topeka KS 66619 LAT/LONG: 38.9548 / 95.6933 CLIENT: Terracon, Inc. CONTACT: Kendra Caspers INQUIRY#: 3231157.2s

DATE: December 28, 2011 12:39 pm

DETAIL MAP - 3231157.2s



SITE NAME: Harlan Industrial Park

ADDRESS: Nw Corner of University Dr. & Topeka Blvd
Topeka KS 66619
LAT/LONG: 38.9548 / 95.6933

CLIENT: Terracon, Inc.
CONTACT: Kendra Caspers
INQUIRY #: 3231157.2s
DATE: December 28, 2011 12:40 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS		1.000 1.000 TP	0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY		0.500 1.000	0 0	0 0	0 0	NR 0	NR NR	0 0
Federal CERCLIS NFRAI	P site List							
CERC-NFRAP		0.500	0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	st						
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	acilities list						
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG		0.250 0.250 0.250	0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL		0.500 0.500	0 0	0 0	0 0	NR NR	NR NR	0 0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equiva	lent CERCLIS	;						
SHWS		1.000	0	0	0	7	NR	7
State and tribal landfill a solid waste disposal site								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking s	storage tank li	ists						
LUST LAST INDIAN LUST		0.500 0.500 0.500	0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
State and tribal registere	ed storage tan	k lists						
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST INDIAN UST FEMA UST		0.250 0.250 0.250	0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institution control / engineering con		s						
INST CONTROL		0.500	0	0	0	NR	NR	0
State and tribal voluntary	cleanup site	es						
INDIAN VCP VCP		0.500 0.500	0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENT	TAL RECORDS	<u>3</u>						
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
ODI DEBRIS REGION 9 INDIAN ODI		0.500 0.500 0.500	0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US CDL AOCONCERN CDL US HIST CDL		TP 1.000 TP TP	NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS 2 LUCIS		TP 0.500	NR 0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency R	elease Repo	rts						
HMIRS SPILLS		TP TP	NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Records								
RCRA-NonGen DOT OPS DOD FUDS CONSENT ROD UMTRA MINES		0.250 TP 1.000 1.000 1.000 1.000 0.500 0.250	0 NR 1 0 0 0 0	0 NR 0 0 0 0 0	NR NR 0 0 0 0 NR	NR NR 0 1 0 NR NR	NR NR NR NR NR NR NR	0 0 1 1 0 0 0

MAP FINDINGS SUMMARY

5.4	Target	Search Distance	4.10	1/0 1/1	4/4 4/9	1/0		Total
Database	Property	(Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	<u>> 1</u>	Plotted
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	ŏ
FTTS		TP	NR	NR	NR	NR	NR	Ö
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
TIER 2		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH EPA COAL ASH		0.500	0 0	0 0	0 0	NR NR	NR NR	0
FINANCIAL ASSURANCE		0.500 TP	NR	NR	NR	NR	NR	0 0
COAL ASH DOE		TP	NR	NR NR	NR	NR	NR	0
COAL ASIT DOE		IF	INIX	INIX	INIX	INIX	INIX	U
EDR PROPRIETARY RECOR	DS							
EDR Proprietary Records	;							
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Elevation Site Database(s) EPA ID Number

DOD FORBES AIR FORCE BASE DOD CUSA133683
Region N/A

FORBES AIR FORCE BASE (County), KS

< 1/8 1 ft.

DOD:

Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported

Name 1: Forbes Air Force Base

Name 2: Not reported Name 3: Not reported

State: KS DOD Site: Yes

Tile name: KSSHAWNEE

 1
 ESSEX GROUP, INC.
 FINDS 1007481851

 SSE
 UNIVERSITY BLVD. & E STREET
 SHWS N/A

1/2-1 TOPEKA, KS 66619

0.574 mi. 3032 ft.

Relative: FINDS:

Higher

Registry ID: 110017594726

Actual: 1026 ft.

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

KS-FP (Kansas - Facility Profiler) is a geographically-based data warehouse site that presents information about facilities and locations of interest to the KDHE. This site has in excess of twenty environmental interest which contains information on closed facilities, completed cleanups, and past operations as well as data on current operations and activities.

SHWS:

Site ID: 1230 Has Env Use Control: No

Project code: C408970969
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94674 / -95.69065 River Basin: KS - Lower Republican

Aquifer Yield: Unknown

EDR ID Number

Direction Distance Elevation

ance EDR ID Number ration Site Database(s) EPA ID Number

ESSEX GROUP, INC. (Continued)

1007481851

Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: Not reported Discovery Date: 03/01/2000 Depth To GW: 0-10 feet 11-20 feet Depth To Bedrock: Aquifer Yield: 0-10 gpm **GW Flow Direction:** NW Acres Affected: <5 acres Waste Present: No Product Present: No

Program: Site Assessment
Lead Agency: BER - Remedial
Contaminants: SVOC, VOC
Media Act: Ground Water, Soil
Media Pot: Not reported

Source: Abandoned Facility, Aboveground Tank, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Commercial, Industrial Private well: Irrigation, Lawn and Garden

Waste Present: Not reported Product: Not reported Not reported Receptor Act: Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Not reported Remed Water: Not reported Remedir: Not reported Alias: Not reported Eucan Number: Not reported Date: Not reported Activity Type: Voluntary Agreement

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 08/25/2000

Narrative: The proprietor of the former Pauline Pant, Essex Group, Incorporated, submitted an application to the Voluntary Cleanup Program on July 14.

2000. Upon review, KDHE found Essex's application to be eligible

as a Class III Property.

The former Pauline Plant operated from 1964 to 1999 making wire by using copper rods drawn through a series of dies to desired finish size. Prior to Essex's activities on the property, the property was reported to have been used in association with the Forbes Air Force base located immediately east of the current industrial park where Essex is located. The Essex Plant ceased operation and closed in

1999. Essex intended to sell the

property.

Essex conducted at least two phases of investigation at the proper ty. Contamination identified was mainly restricted to within the property boundaries with the exception of an acetone impact found to extend to an off-site property. Prior to completing investigation at this property, Essex declared bankruptcy. All activities have

ceased.

Site ID: 1230 Has Env Use Control: No

Project code: C408970969

Direction Distance

Elevation Site Database(s) EPA ID Number

ESSEX GROUP, INC. (Continued)

1007481851

EDR ID Number

PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94674 / -95.69065
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: Not reported Discovery Date: 03/01/2000 Depth To GW: 0-10 feet 11-20 feet Depth To Bedrock: Aquifer Yield: 0-10 gpm **GW Flow Direction:** NW Acres Affected: <5 acres Waste Present: No Product Present: No

Program: Site Assessment
Lead Agency: BER - Remedial
Contaminants: SVOC, VOC
Media Act: Ground Water, Soil

Media Pot: Not reported

Source: Abandoned Facility, Aboveground Tank, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Commercial, Industrial Private well: Irrigation, Lawn and Garden

Waste Present: Not reported Product: Not reported Receptor Act: Not reported Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Not reported Not reported Remed Water: Remedir: Not reported Not reported Alias: Not reported Eucan Number: Date: Not reported

Activity Type: Transfer Within Bureau

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 02/22/2011

Narrative: The proprietor of the former Pauline Pant, Essex Group, Incorporated,

submitted an application to the Voluntary Cleanup Program on July 14, 2000. Upon review, KDHE found Essex's application to be eligible

as a Class III Property.

The former Pauline Plant operated from 1964 to 1999 making wire by using copper rods drawn through a series of dies to desired finish size. Prior to Essex's activities on the property, the property was reported to have been used in association with the Forbes Air Force base located immediately east of the current industrial park where Essex is located. The Essex Plant ceased operation and closed in

1999. Essex intended to sell the

property.

Essex conducted at least two phases of investigation at the proper ty. Contamination identified was mainly restricted to within the property boundaries with the exception of an acetone impact found to extend to an off-site property. Prior to completing investigation at

Direction Distance

Elevation Site Database(s) EPA ID Number

ESSEX GROUP, INC. (Continued)

1007481851

EDR ID Number

this property, Essex declared bankruptcy. All activities have

ceased.

Site ID: 1230 Has Env Use Control: No

Project code: C408970969
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94674 / -95.69065 River Basin: KS - Lower Republican

Unknown Aquifer Yield: Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: Not reported Discovery Date: 03/01/2000 Depth To GW: 0-10 feet Depth To Bedrock: 11-20 feet Aquifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: <5 acres Waste Present: No Product Present: No

Program: Site Assessment
Lead Agency: BER - Remedial
Contaminants: SVOC, VOC
Media Act: Ground Water, Soil
Media Pot: Not reported

Source: Abandoned Facility, Aboveground Tank, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Commercial, Industrial
Private well: Irrigation, Lawn and Garden

Not reported Waste Present: Product: Not reported Not reported Receptor Act: Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Not reported Remed Water: Not reported Remedir: Not reported Alias: Not reported Eucan Number: Not reported Date: Not reported

Activity Type: Voluntary Cleanup Investigation (VCI)

Activity Status: Underway
Activity Start Date: 11/22/2000
Activity End Date: Not reported

Narrative: The proprietor of the former Pauline Pant, Essex Group, Incorporated,

submitted an application to the Voluntary Cleanup Program on July 14, 2000. Upon review, KDHE found Essex's application to be eligible

as a Class III Property.

The former Pauline Plant operated from 1964 to 1999 making wire by using copper rods drawn through a series of dies to desired finish size. Prior to Essex's activities on the property, the property was reported to have been used in association with the Forbes Air Force base located immediately east of the current industrial park where Essex is located. The Essex Plant ceased operation and closed in

Direction Distance

Elevation Site Database(s) EPA ID Number

ESSEX GROUP, INC. (Continued)

1007481851

EDR ID Number

1999. Essex intended to sell the

property.

Essex conducted at least two phases of investigation at the proper ty. Contamination identified was mainly restricted to within the property boundaries with the exception of an acetone impact found to extend to an off-site property. Prior to completing investigation at this property, Essex declared bankruptcy. All activities have

ceased.

TINKER WAREHOUSE ANNEX (FORMER)

SHWS S106517526 N/A

SSE FORBES INDUSTRIAL PARK

1/2-1 TOPEKA, KS

0.635 mi. 3354 ft.

2

Relative: SHWS:

Higher Site ID: 1232
Has Env Use Control: No

 Actual:
 Project code:
 C408971263

 1030 ft.
 PM Name:
 DANEKE, T.

 Site Status:
 Active

District Office: NEDO
Lat/Long: 38.94667 / -95.687778

River Basin: KS - Lower Republican Aquifer Yield: Unknown

Other Aquifers: Not reported Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: Not reported Discovery Date: 05/25/2001 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aguifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration

Contaminants: Refined Petroleum, VOC

Media Act: Not reported
Media Pot: Ground Water, Soil

Source: Abandoned Facility, Spill, Other (see Site Narrative)

Land Use: Commercial, Industrial Private well: Domestic, Monitoring

Waste Present: Not reported Not reported Product: Not reported Receptor Act: Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Not reported Not reported Remed Water: Not reported Remedir:

Alias: FORBES INDUSTRIAL PARK; TOPEKA AIR FORCE STATION

Eucan Number: Not reported Date: Not reported

Activity Type: Transfer Within Bureau

Activity Status: Completed

Direction Distance

Elevation Site Database(s) EPA ID Number

TINKER WAREHOUSE ANNEX (FORMER) (Continued)

S106517526

EDR ID Number

Activity Start Date: Not reported Activity End Date: 12/31/2002

Narrative: The Tinker Warehouse Annex site is one warehouse at the Topeka Air

Force Station adjacent to Forbes Field. The site used to be part of the Topeka AFSTA but was transferred to Tinker AFB in Oklahoma in 1985. The site was used to store tooling equipment and spare parts for B-52s, KC-135s, and AGM-86 ALCMs. The site was sold to private owners in December 1999. The discovery date is the date that the management action plan (MAP) fact sheet was started. This site is ineligible for the DERP-FUDS program. KDHE's December, 2002 ISS recommended DOD to collect samples at the site if further information

on DOD contamination at the site is found.

Site ID: 1232 Has Env Use Control: No

Project code: C408971263
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94667 / -95.687778
River Basin: KS - Lower Republican

Aquifer Yield: Unknown
Other Aquifers: Not reported
Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: Not reported Discovery Date: 05/25/2001 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration

Contaminants: Refined Petroleum, VOC

Media Act: Not reported
Media Pot: Ground Water, Soil

Source: Abandoned Facility, Spill, Other (see Site Narrative)

Land Use: Commercial, Industrial Private well: Domestic, Monitoring

Waste Present: Not reported Not reported Product: Not reported Receptor Act: Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Not reported Remed Water: Not reported Not reported Remedir:

Alias: FORBES INDUSTRIAL PARK; TOPEKA AIR FORCE STATION

Eucan Number: Not reported
Date: Not reported

Activity Type: Initial Site Screening

Activity Status: Completed Activity Start Date: 09/01/2002 Activity End Date: 12/31/2002

Direction Distance

Elevation Site Database(s) EPA ID Number

TINKER WAREHOUSE ANNEX (FORMER) (Continued)

S106517526

EDR ID Number

Narrative: The Tinker Warehouse Annex site is one warehouse at the Topeka Air

Force Station adjacent to Forbes Field. The site used to be part of the Topeka AFSTA but was transferred to Tinker AFB in Oklahoma in 1985. The site was used to store tooling equipment and spare parts for B-52s, KC-135s, and AGM-86 ALCMs. The site was sold to private owners in December 1999. The discovery date is the date that the management action plan (MAP) fact sheet was started. This site is ineligible for the DERP-FUDS program. KDHE's December, 2002 ISS recommended DOD to collect samples at the site if further information

on DOD contamination at the site is found.

3 FORBES FIELD AIR NATIONAL GUARD SHWS 1007479571 NE FORBES FIELD N/A

NE FORBES FIELD 1/2-1 TOPEKA, KS 66620

0.659 mi. 3478 ft.

Relative: SHWS:

Higher Site ID: 1210
Has Env Use Control: No

 Actual:
 Project code:
 C408900062

 1023 ft.
 PM Name:
 DANEKE, T.

Site Status: Resolved
District Office: NEDO

Lat/Long: 38.96221 / -95.68559
River Basin: KS - Lower Republican

Aquifer Yield: Not reported Other Aquifers: Not reported Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: KS3572890025 Discovery Date: 03/08/1988 Depth To GW: 21-30 feet Depth To Bedrock: 21-30 feet Aquifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: Department of Defense

Lead Agency: BER - Assessment and Restoration

Contaminants: Refined Petroleum

Media Act: Soil

Media Pot: Surface Water

Source: Spill, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Other (see Site Narrative)

Private well:

Waste Present:

Product:

Receptor Act:

Receptor Pot:

Remed Air:

Not reported

Remed Water: Long Term Monitoring

Remedir: Not reported

Alias: 190TH AIR REFUELING WING; 190TH ARW; KANG; KANSAS AIR NATIONAL GUARD

Eucan Number: Not reported Date: Not reported

Distance

Elevation Site Database(s) EPA ID Number

FORBES FIELD AIR NATIONAL GUARD (Continued)

1007479571

EDR ID Number

Activity Type: Remedial Investigation

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 09/01/1995

Narrative: Soil contamination was present at above ground bulk fuel storage

area. Long-term groundwater monitoring showed no impacts to groundwater. Soil contamination below risk-based levels for human contact is present. A new building for air guard use is planned to

be built at the

site.

The Final Proposed plan was approved on September 13, 2011. NFA

was recommended for all 10 sites.

Site ID: 1210 Has Env Use Control: No

Project code: C408900062
PM Name: DANEKE, T.
Site Status: Resolved
District Office: NEDO

Lat/Long: 38.96221 / -95.68559
River Basin: KS - Lower Republican

Aquifer Yield: Not reported Other Aquifers: Not reported Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: KS3572890025 Discovery Date: 03/08/1988 Depth To GW: 21-30 feet Depth To Bedrock: 21-30 feet Aquifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: Department of Defense

Lead Agency: BER - Assessment and Restoration

Contaminants: Refined Petroleum

Media Act: Soil

Media Pot: Surface Water

Source: Spill, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Other (see Site Narrative)

Private well:
Waste Present:
Product:
Receptor Act:
Receptor Pot:
Remed Air:
Remed Soil:
Not reported
Not reported
Not reported
Not reported
Not reported
Not reported

Remed Water: Long Term Monitoring

Remedir: Not reported

Alias: 190TH AIR REFUELING WING; 190TH ARW; KANG; KANSAS AIR NATIONAL GUARD

Eucan Number: Not reported
Date: Not reported
Activity Type: Resolved
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 11/01/2001

Direction Distance

Elevation Site Database(s) EPA ID Number

FORBES FIELD AIR NATIONAL GUARD (Continued)

1007479571

EDR ID Number

Narrative: Soil contamination was present at above ground bulk fuel storage

area. Long-term groundwater monitoring showed no impacts to groundwater. Soil contamination below risk-based levels for human contact is present. A new building for air guard use is planned to

be built at the

site.

The Final Proposed plan was approved on September 13, 2011. NFA

was recommended for all 10 sites.

Site ID: 1210 Has Env Use Control: No

Project code: C408900062
PM Name: DANEKE, T.
Site Status: Resolved
District Office: NEDO

Lat/Long: 38.96221 / -95.68559 River Basin: KS - Lower Republican

Aquifer Yield: Not reported Other Aquifers: Not reported Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: KS3572890025 Discovery Date: 03/08/1988 Depth To GW: 21-30 feet Depth To Bedrock: 21-30 feet Aquifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: Department of Defense

Lead Agency: BER - Assessment and Restoration

Contaminants: Refined Petroleum

Media Act: Soil

Media Pot: Surface Water

Source: Spill, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Other (see Site Narrative)

Private well:

Waste Present:

Product:

Receptor Act:

Receptor Pot:

Remed Air:

Not reported

Remed Water: Long Term Monitoring

Remedir: Not reported

Alias: 190TH AIR REFUELING WING; 190TH ARW; KANG; KANSAS AIR NATIONAL GUARD

Eucan Number: Not reported Date: Not reported

Activity Type: Long Term Monitoring

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 11/01/2001

Narrative: Soil contamination was present at above ground bulk fuel storage

area. Long-term groundwater monitoring showed no impacts to groundwater. Soil contamination below risk-based levels for human contact is present. A new building for air guard use is planned to

Direction Distance

Elevation Site Database(s) EPA ID Number

FORBES FIELD AIR NATIONAL GUARD (Continued)

1007479571

EDR ID Number

be built at the

site.

The Final Proposed plan was approved on September 13, 2011. NFA

was recommended for all 10 sites.

Site ID: 1210 Has Env Use Control: No

Project code: C408900062
PM Name: DANEKE, T.
Site Status: Resolved
District Office: NEDO

Lat/Long: 38.96221 / -95.68559
River Basin: KS - Lower Republican

Aquifer Yield: Not reported Other Aquifers: Not reported Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: KS3572890025 Discovery Date: 03/08/1988 Depth To GW: 21-30 feet Depth To Bedrock: 21-30 feet Aquifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: Department of Defense

Lead Agency: BER - Assessment and Restoration

Contaminants: Refined Petroleum

Media Act: Soil

Media Pot: Surface Water

Source: Spill, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Other (see Site Narrative)

Private well:

Waste Present:

Product:

Receptor Act:

Receptor Pot:

Remed Air:

Remed Soil:

Not reported

Not reported

Not reported

Not reported

Not reported

Remed Water: Long Term Monitoring

Remedir: Not reported

Alias: 190TH AIR REFUELING WING; 190TH ARW; KANG; KANSAS AIR NATIONAL GUARD

Eucan Number: Not reported Date: Not reported

Activity Type: Concurrence Document

Activity Status: Completed Activity Start Date: 07/15/2011 Activity End Date: 09/13/2011

Narrative: Soil contamination was present at above ground bulk fuel storage

area. Long-term groundwater monitoring showed no impacts to groundwater. Soil contamination below risk-based levels for human contact is present. A new building for air guard use is planned to

be built at the

site.

The Final Proposed plan was approved on September 13, 2011. NFA

was recommended for all 10 sites.

Direction Distance

Elevation Site Database(s) EPA ID Number

FORBES FIELD AIR NATIONAL GUARD (Continued)

1007479571

EDR ID Number

Site ID: 1210 Has Env Use Control: No

Project code: C408900062
PM Name: DANEKE, T.
Site Status: Resolved
District Office: NEDO

Lat/Long: 38.96221 / -95.68559
River Basin: KS - Lower Republican

Aquifer Yield: Not reported Other Aquifers: Not reported Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: KS3572890025 Discovery Date: 03/08/1988 Depth To GW: 21-30 feet Depth To Bedrock: 21-30 feet Aquifer Yield: 0-10 gpm GW Flow Direction: NW Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: Department of Defense

Lead Agency: BER - Assessment and Restoration

Contaminants: Refined Petroleum Media Act: Soil

Media Pot: Surface Water

Source: Spill, Underground Tank/Piping, Other (see Site Narrative)

Land Use: Other (see Site Narrative)

Private well:

Waste Present:

Product:

Not reported

Remed Water: Long Term Monitoring

Remedir: Not reported

Alias: 190TH AIR REFUELING WING; 190TH ARW; KANG; KANSAS AIR NATIONAL GUARD

Eucan Number: Not reported
Date: Not reported
Activity Type: Public Meeting
Activity Status: Completed
Activity Start Date: 09/27/2011
Activity End Date: 09/27/2011

Narrative: Soil contamination was present at above ground bulk fuel storage

area. Long-term groundwater monitoring showed no impacts to groundwater. Soil contamination below risk-based levels for human contact is present. A new building for air guard use is planned to

be built at the

site.

The Final Proposed plan was approved on September 13, 2011. NFA

was recommended for all 10 sites.

Direction Distance

Elevation Site Database(s) EPA ID Number

4 TOPEKA AIR FORCE STATION FINDS 1007482946 SSE ROUTE 75, JUST WEST OF FORBES FIELD SHWS N/A

1/2-1 TOPEKA, KS 66620

0.752 mi. 3969 ft.

Relative: FINDS:

Higher

Registry ID: 110017607623

Actual: 1029 ft.

Environmental Interest/Information System

KS-FP (Kansas - Facility Profiler) is a geographically-based data warehouse site that presents information about facilities and locations of interest to the KDHE. This site has in excess of twenty environmental interest which contains information on closed facilities, completed cleanups, and past operations as well as data on

current operations and activities.

SHWS:

Site ID: 1220 Has Env Use Control: No

Project code: C408970024
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94433 / -95.68944
River Basin: KS - Lower Republican
Aquifer Yield: Osage Cuestas

Other Aquifers: Alluvial Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: KSN000703470
Discovery Date: 01/01/1990
Depth To GW: 11-20 feet
Depth To Bedrock: 0-10 feet
Aquifer Yield: 0-10 gpm
GW Flow Direction: E

Acres Affected: 26-500 acres

Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration
Contaminants: Heavy Metal, Refined Petroleum, VOC

Media Act: Not reported

Media Pot: Ground Water, Soil, Surface Water

Source: Facility Operations, Underground Tank/Piping

Land Use: Commercial, Industrial Private well: Domestic, Monitoring

Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Human, Wildlife
Remed Air: Not reported

Remed Soil: Off-Site Disposal, Other Waste Destructive

Remed Water: Not reported Remedir: Not reported

Alias: ARMY AIR FORCE SUPPLY DEPOT; FORBES INDUSTRIAL PARK; TOPEKA AAF STORAGE DEPOT; TOPEK

Eucan Number: Not reported

EDR ID Number

Map ID MAP FINDINGS
Direction

Distance Elevation Site

Site Database(s) EPA ID Number

TOPEKA AIR FORCE STATION (Continued)

Narrative:

1007482946

EDR ID Number

Date: Not reported
Activity Type: Site Inspection
Activity Status: Completed
Activity Start Date: 07/13/2006
Activity End Date: 09/14/2006

The Army acquired land for the site between 1942 and 1944 to establish a storage depot for the Topeka Army Airfield. Between 1956 and 1961, approximately half the site was reassigned to the Forbes Air Force Base. The GSA acquired part of the remaining site, and the rest (approximately 130 acres) was transferred to a private owner in

1963.

In 1985, a site investigation was conducted for J.P. Fogel Company in Kansas City, MO, which sampled soil. Groundwater sampling had also been planned, but was not performed when the monitoring wells failed to yield enough water. The site investigation report concluded that there was no evidence of contamination, and that metals were present at concentrations near or below background levels.

Thirty underground storage tanks (USTs) were removed from the site in 1990, presumably by the subsequent owners. USACE created an Inventory Project Report in February 1992 which identified a UST removal project. It is not clear if or when this UST was removed.

KDHE prepared an Initial Site Screening(ISS) in December 2002. The ISS report characterized the previous investigation as "very narrow" in scope. It recommended that USACE conduct a thorough records review for the site, and perform adequate sampling of soil, groundwater, and possibly other

In 2006 USACE conducted a site visit with the purpose of locating two potential USTs reportedly still on site. No evidence was found of a waste oil tank. Exploratory excavation of the area where a gasoline storage tank had been reported yielded only a length of steel pipe. A site worker recalled that a tank had been removed in the late 1970's or early 1980's. Analysis of soil samples collected from the excavation did not yield evidence of contamination.

KDHE conducted a site visit during the November 2008 sampling even t. The contractor noted that no VOC were detected in the initial field screening and noted that only one groundwater sample was collected due to insufficient groundwater quantities.

The EPA Preliminary Assessment indicated NFA, which KDHA concured with on 5/24/2010.

Site ID: 1220 Has Env Use Control: No

Project code: C408970024
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94433 / -95.68944
River Basin: KS - Lower Republican
Aguiter Vield: Osage Cuestas

Aquifer Yield: Osage Cuestas
Other Aquifers: Alluvial
Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

TOPEKA AIR FORCE STATION (Continued)

1007482946

EDR ID Number

CERCLIS ID: KSN000703470
Discovery Date: 01/01/1990
Depth To GW: 11-20 feet
Depth To Bedrock: 0-10 feet
Aquifer Yield: 0-10 gpm
GW Flow Direction: E

Acres Affected: 26-500 acres

Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration
Contaminants: Heavy Metal, Refined Petroleum, VOC

Media Act: Not reported

Media Pot: Ground Water, Soil, Surface Water

Source: Facility Operations, Underground Tank/Piping

Land Use: Commercial, Industrial Private well: Domestic, Monitoring

Waste Present:
Product:
Not reported
Not reported
Receptor Act:
Receptor Pot:
Remed Air:
Not reported
Human, Wildlife
Not reported

Remed Soil: Off-Site Disposal, Other Waste Destructive

Remed Water: Not reported Remedir: Not reported

Alias: ARMY AIR FORCE SUPPLY DEPOT; FORBES INDUSTRIAL PARK; TOPEKA AAF STORAGE DEPOT; TOPEK

Eucan Number: Not reported
Date: Not reported
Activity Type: Site Inspection
Activity Status: Completed
Activity Start Date: 01/01/1985
Activity End Date: 12/31/1985

Narrative: The Army acquired land for the site between 1942 and 1944 to

establish a storage depot for the Topeka Army Airfield. Between 1956 and 1961, approximately half the site was reassigned to the Forbes Air Force Base. The GSA acquired part of the remaining site, and the rest (approximately 130 acres) was transferred to a private owner in

963.

In 1985, a site investigation was conducted for J.P. Fogel Company in Kansas City, MO, which sampled soil. Groundwater sampling had also been planned, but was not performed when the monitoring wells failed to yield enough water. The site investigation report

concluded that there was no evidence of contamination, and that metals were present at concentrations near or below background levels.

TI.:...

Thirty underground storage tanks (USTs) were removed from the site in 1990, presumably by the subsequent owners. USACE created an Inventory Project Report in February 1992 which identified a UST removal project. It is not clear if or when this UST was

removed.

KDHE prepared an Initial Site Screening(ISS) in December 2002. The ISS report characterized the previous investigation as "very narrow" in scope. It recommended that USACE conduct a thorough records review for the site, and perform adequate sampling of soil, groundwater, and possibly other

media.

In 2006 USACE conducted a site visit with the purpose of locating

Direction Distance Elevation

n Site Database(s) EPA ID Number

TOPEKA AIR FORCE STATION (Continued)

1007482946

EDR ID Number

two potential USTs reportedly still on site. No evidence was found of a waste oil tank. Exploratory excavation of the area where a gasoline storage tank had been reported yielded only a length of steel pipe. A site worker recalled that a tank had been removed in the late 1970's or early 1980's. Analysis of soil samples collected from the excavation did not yield evidence of

contamination.

KDHE conducted a site visit during the November 2008 sampling even t. The contractor noted that no VOC were detected in the initial field screening and noted that only one groundwater sample was collected due to insufficient groundwater

The EPA Preliminary Assessment indicated NFA, which KDHA concured with on 5/24/2010.

Site ID: 1220 Has Env Use Control: No

Project code: C408970024
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94433 / -95.68944
River Basin: KS - Lower Republican
Aquifer Yield: Osage Cuestas

Other Aquifers: Alluvial
Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

quantities.

CERCLIS ID: KSN000703470
Discovery Date: 01/01/1990
Depth To GW: 11-20 feet
Depth To Bedrock: 0-10 feet
Aquifer Yield: 0-10 gpm
GW Flow Direction: E

Acres Affected: 26-500 acres

Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration
Contaminants: Heavy Metal, Refined Petroleum, VOC

Media Act: Not reported

Media Pot: Ground Water, Soil, Surface Water

Source: Facility Operations, Underground Tank/Piping

Land Use: Commercial, Industrial Private well: Domestic, Monitoring

Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Human, Wildlife
Remed Air: Not reported

Remed Soil: Off-Site Disposal, Other Waste Destructive

Remed Water: Not reported Remedir: Not reported

Alias: ARMY AIR FORCE SUPPLY DEPOT; FORBES INDUSTRIAL PARK; TOPEKA AAF STORAGE DEPOT; TOPEK

Eucan Number: Not reported Date: Not reported

Activity Type: Interim Remedial Measure - source

Activity Status: Completed

Map ID MAP FINDINGS
Direction

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

TOPEKA AIR FORCE STATION (Continued)

1007482946

Activity Start Date: 01/01/1990 Activity End Date: 12/31/1990

Narrative: 12/31/1990

The Army acquired land for the site between 1942 and 1944 to establish a storage depot for the Topeka Army Airfield. Between 1956 and 1961, approximately half the site was reassigned to the Forbes Air Force Base. The GSA acquired part of the remaining site, and the rest (approximately 130 acres) was transferred to a private owner in 1963.

In 1985, a site investigation was conducted for J.P. Fogel Company in Kansas City, MO, which sampled soil. Groundwater sampling had also been planned, but was not performed when the monitoring wells failed to yield enough water. The site investigation report concluded that there was no evidence of contamination, and that metals were present at concentrations near or below background levels.

Thirty underground storage tanks (USTs) were removed from the site in 1990, presumably by the subsequent owners. USACE created an Inventory Project Report in February 1992 which identified a UST removal project. It is not clear if or when this UST was removed.

KDHE prepared an Initial Site Screening(ISS) in December 2002. The ISS report characterized the previous investigation as "very narrow" in scope. It recommended that USACE conduct a thorough records review for the site, and perform adequate sampling of soil, groundwater, and possibly other media.

In 2006 USACE conducted a site visit with the purpose of locating two potential USTs reportedly still on site. No evidence was found of a waste oil tank. Exploratory excavation of the area where a gasoline storage tank had been reported yielded only a length of steel pipe. A site worker recalled that a tank had been removed in the late 1970's or early 1980's. Analysis of soil samples collected from the excavation did not yield evidence of contamination.

KDHE conducted a site visit during the November 2008 sampling even t. The contractor noted that no VOC were detected in the initial field screening and noted that only one groundwater sample was collected due to insufficient groundwater quantities.

The EPA Preliminary Assessment indicated NFA, which KDHA concured with on 5/24/2010.

Site ID: 1220 Has Env Use Control: No

Project code: C408970024
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94433 / -95.68944
River Basin: KS - Lower Republican

Aquifer Yield: Osage Cuestas
Other Aquifers: Alluvial
Parent PC: C408970143

Parent Name: FORBES AFB (PARENT SITE)

CERCLIS ID: KSN000703470
Discovery Date: 01/01/1990
Depth To GW: 11-20 feet

Map ID MAP FINDINGS
Direction

Direction

Elevation Site Database(s) EPA ID Number

TOPEKA AIR FORCE STATION (Continued)

1007482946

EDR ID Number

Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm

GW Flow Direction: E

Acres Affected: 26-500 acres

Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration
Contaminants: Heavy Metal, Refined Petroleum, VOC

Media Act: Not reported

Media Pot: Ground Water, Soil, Surface Water

Source: Facility Operations, Underground Tank/Piping

Land Use: Commercial, Industrial Private well: Domestic, Monitoring

Waste Present:
Product:
Receptor Act:
Receptor Pot:
Remed Air:
Not reported
Not reported
Human, Wildlife
Not reported

Remed Soil: Off-Site Disposal, Other Waste Destructive

Remed Water: Not reported Remedir: Not reported

Alias: ARMY AIR FORCE SUPPLY DEPOT: FORBES INDUSTRIAL PARK: TOPEKA AAF STORAGE DEPOT: TOPEK

Eucan Number: Not reported
Date: Not reported
Activity Type: Initial Site Screening

Activity Status: Completed Activity Start Date: 09/01/2002 Activity End Date: 12/31/2002

Narrative: The Army acquired land for the site between 1942 and 1944 to

establish a storage depot for the Topeka Army Airfield. Between 1956 and 1961, approximately half the site was reassigned to the Forbes Air Force Base. The GSA acquired part of the remaining site, and the rest (approximately 130 acres) was transferred to a private owner in

1963.

In 1985, a site investigation was conducted for J.P. Fogel Company in Kansas City, MO, which sampled soil. Groundwater sampling had also been planned, but was not performed when the monitoring wells

failed to yield enough water. The site investigation report concluded that there was no evidence of contamination, and that metals were present at concentrations near or below background levels.

Thirty underground storage tanks (USTs) were removed from the site in 1990, presumably by the subsequent owners. USACE created an Inventory Project Report in February 1992 which identified a UST removal project. It is not clear if or when this UST was removed.

KDHE prepared an Initial Site Screening(ISS) in December 2002. The ISS report characterized the previous investigation as "very narrow" in scope. It recommended that USACE conduct a thorough records review for the site, and perform adequate sampling of soil, groundwater, and possibly other media.

In 2006 USACE conducted a site visit with the purpose of locating two potential USTs reportedly still on site. No evidence was found of a waste oil tank. Exploratory excavation of the area where a gasoline storage tank had been reported yielded only a length of

Direction Distance

Elevation Site Database(s) EPA ID Number

TOPEKA AIR FORCE STATION (Continued)

1007482946

EDR ID Number

steel pipe. A site worker recalled that a tank had been removed in the late 1970's or early 1980's. Analysis of soil samples collected from the excavation did not yield evidence of contamination.

KDHE conducted a site visit during the November 2008 sampling even t. The contractor noted that no VOC were detected in the initial field screening and noted that only one groundwater sample was collected due to insufficient groundwater quantities.

The EPA Preliminary Assessment indicated NFA, which KDHA concured with on 5/24/2010.

5 TOPEKA AIR FORCE STATION

FUDS 1012129371 N/A

SSE

1/2-1 TOPEKA, KS

0.808 mi. 4265 ft.

Relative: FUDS:

Higher

Federal Facility ID: KS9799F6769 FUDS #: B07KS0282 INST ID: 61887

Actual: 1029 ft.

Facility Name: TOPEKA AIR FORCE STATION

City: TOPEKA State: KS EPA Region: 7

County: SHAWNEE

Congressional District: 02

US Army District: Kansas City District (NWK)

Fiscal Year: 2009

Telephone: 816-389-3072
NPL Status: Not reported
RAB: Not reported
CTC: Not reported
Current Owner: PRIVATE

FUDS Description Details:

DoD acquired 401.89 acres between 1942 and 1944 through purchase, lease, and easements to build a storage and supply depot for the Army Air Force. Warehouses and other buildings, a motor pool and fueling

station, a fire station, and transportation an

nd utility infrastructure were constructed. Between 1956 and 1961, 208.98 acres were reassigned to the Forbes Air Force Base adjacent east to the site. A lease on 6.6 acres of land was terminated in June

1946, and the remaining property was excessed

in February 1963 and sold to a private owner. In 1985 a site

investigation was conducted for J.P. Fogel Company in Kansas City, MO which sampled soil and groundwater. Thirty USTs were removed from the

site in 1990, presumably by the subsequent owners

s. Alias: Topeka AFSTA

FUDS History Details:

A field investigation was conducted in 1985 on the "Forbes Industrial Park," which occupies much of the eastern portion of the site. This investigation did not discover any significant contamination. A UST removal project was authorized by USACE.

Direction Distance

Elevation Site Database(s) EPA ID Number

TOPEKA AIR FORCE STATION (Continued)

1012129371

EDR ID Number

FUDS Current Program Details:

FUDS Future Program Details:

6 FORBES AFB FINDS 1007471001
ESE FORBES FIELD SHWS N/A

1/2-1 TOPEKA, KS 66620

0.876 mi. 4624 ft.

Relative: FINDS:

Higher

Registry ID: 110017463948

Actual: 1040 ft.

Environmental Interest/Information System

KS-FP (Kansas - Facility Profiler) is a geographically-based data warehouse site that presents information about facilities and locations of interest to the KDHE. This site has in excess of twenty environmental interest which contains information on closed facilities, completed cleanups, and past operations as well as data on

current operations and activities.

SHWS:

Site ID: 1222 Has Env Use Control: No

Project code: C408970143
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94977 / -95.67838
River Basin: KS - Lower Republican

Alluvial Aquifer Yield: Other Aquifers: Glacial Drift Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS7570090020 Discovery Date: 01/01/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm

GW Flow Direction: E
Acres Affected: >500 acres

Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration

Contaminants: Heavy Metal, VOC Media Act: Ground Water, Soil Media Pot: Surface Water

Source: Abandoned Facility, Underground Tank/Piping, Closed Non-Permitted Landfill

Land Use: Agricultural, Commercial, Industrial

Private well: Domestic, Monitoring

Waste Present: Not reported Product: Not reported Receptor Act: Private Well

MAP FINDINGS Map ID Direction

Distance Elevation

EPA ID Number Site Database(s)

FORBES AFB (Continued) 1007471001

Receptor Pot: Human Not reported Remed Air: Remed Soil: Landfarming

Remed Water: Long Term Monitoring Remedir: Whole House Treatment

Alias: FORBES AIR FORCE BASE; FORBES FIELD; METROPOLITAN TOPEKA AIRPORT AUTHORITY; MTAA; TOP

Eucan Number: Not reported Date: Not reported Activity Type: Site Inspection Activity Status: Completed Activity Start Date: 03/06/2007 10/16/2007 Activity End Date:

Narrative: The site was an Army Airfield from approximately 1942 to 1945, then

became an Air Force base in the 1950s. The Air Force transferred most of the site to the City of Topeka in 1976 for use as a municipal airport and industrial park. The remainder of the site is used by

the Air National Guard and the Army National

Guard.

Approximately 70 underground storage tanks were removed in the ear ly 1990s by USACE. A site investigation was performed by USACE in 1995, which identified the two landfills at the site as posing the greatest risk. However, groundwater at the rest of the site was not investigated. Eight monitoring events for groundwater at the landfills were performed in 2000 and 2001, and demonstrated long-term VOC contamination above

MCLs.

In March 2007, under the Military Munitions Response Program, USAC E conducted a site inspection of the skeet range, the pistol range, and the firing-in-butt range. It also conducted a reconnaissance of four suspected burial areas. Elevated lead concentrations were found in soil at the firing-in-butt range. The SI report has recommended a remedial investigation/feasibility study at the firing-in-butt range, and further investigation of subsurface anomalies detected at two suspected burial areas.

In 2000, KDHE discovered a private water well just east of the nor th landfill which was contaminated with vinyl chloride above its MCL, and USACE provided water filtration and bottled water. In July 2006, USACE completed installing a replacement residential well. However, the new well is impacted with bacteria contamination and the water is not suitable for drinking purposes. This well will be abandoned in FY 2007 and USACE will continue to maintain existing GAC

USACE completed a Phase 1 Remedial Investigation in 2003 which fur ther characterized the groundwater around the two landfills. The Phase 2 RI was completed in January

KDHE completed a site wide SI in November 2004. Substantial soil and groundwater contamination (fuels and solvents) was found at the former aircraft fire training area. VOCs were found in groundwater near buildings 602 and 624. The SI report recommended further investigation. The Feasibility Study and Remedial Investigation were approved on 10/29/2008 and 11/14/2008, respectively. Most detections of TCE, PCE, and VC are at or below regulatory levels.

New monitoring wells were installed on December 2009, mainly as se ntinel wells to ensure that the plume does not move further off site. The PCE plume is still only detected in one drinking water well,

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

FORBES AFB (Continued) 1007471001

which has a functional GAC

unit.

The South Landfill was inspected in 2005 and 2010, several 55-gall on drums were noted as exposed and ruptured at the site. An oily sheen was also reported in the stream near the abandoned drums. The Corps of Engineers were notified about the issue and have sampled the Site in November 2010. Surface water sample results were inconclusive and the sheen is thought to be from a naturally occuring bacteria. The exposed drums will be covered or removed as funds become

available.

Site ID: 1222 Has Env Use Control: No

Project code: C408970143
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94977 / -95.67838
River Basin: KS - Lower Republican

Aquifer Yield: Alluvial Other Aquifers: Glacial Drift Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS7570090020 Discovery Date: 01/01/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction:

Acres Affected: >500 acres
Waste Present: No
Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration

Contaminants: Heavy Metal, VOC Media Act: Ground Water, Soil Media Pot: Surface Water

Source: Abandoned Facility, Underground Tank/Piping, Closed Non-Permitted Landfill

Land Use: Agricultural, Commercial, Industrial Private well: Domestic, Monitoring

Waste Present: Not reported
Product: Not reported
Receptor Act: Private Well
Receptor Pot: Human
Remed Air: Not reported
Remed Soil: Landfarming

Remed Water: Long Term Monitoring
Remedir: Whole House Treatment

Alias: FORBES AIR FORCE BASE; FORBES FIELD; METROPOLITAN TOPEKA AIRPORT AUTHORITY; MTAA; TOP

Eucan Number: Not reported
Date: Not reported
Activity Type: Feasibility Study
Activity Status: Completed
Activity Start Date: 10/28/2008
Activity End Date: 11/28/2008

Narrative: The site was an Army Airfield from approximately 1942 to 1945, then

became an Air Force base in the 1950s. The Air Force transferred

EDR ID Number

Map ID Direction Distance Elevation

MAP FINDINGS

Site EDR ID Number
Database(s) EPA ID Number

FORBES AFB (Continued)

1007471001

most of the site to the City of Topeka in 1976 for use as a municipal airport and industrial park. The remainder of the site is used by the Air National Guard and the Army National Guard.

Approximately 70 underground storage tanks were removed in the ear ly 1990s by USACE. A site investigation was performed by USACE in 1995, which identified the two landfills at the site as posing the greatest risk. However, groundwater at the rest of the site was not investigated. Eight monitoring events for groundwater at the landfills were performed in 2000 and 2001, and demonstrated long-term VOC contamination above MCLs.

In March 2007, under the Military Munitions Response Program, USAC E conducted a site inspection of the skeet range, the pistol range, and the firing-in-butt range. It also conducted a reconnaissance of four suspected burial areas. Elevated lead concentrations were found in soil at the firing-in-butt range. The SI report has recommended a remedial investigation/feasibility study at the firing-in-butt range, and further investigation of subsurface anomalies detected at two suspected burial areas.

In 2000, KDHE discovered a private water well just east of the nor th landfill which was contaminated with vinyl chloride above its MCL, and USACE provided water filtration and bottled water. In July 2006, USACE completed installing a replacement residential well. However, the new well is impacted with bacteria contamination and the water is not suitable for drinking purposes. This well will be abandoned in FY 2007 and USACE will continue to maintain existing GAC Unit.

USACE completed a Phase 1 Remedial Investigation in 2003 which fur ther characterized the groundwater around the two landfills. The Phase 2 RI was completed in January 2005.

KDHE completed a site wide SI in November 2004. Substantial soil and groundwater contamination (fuels and solvents) was found at the former aircraft fire training area. VOCs were found in groundwater near buildings 602 and 624. The SI report recommended further investigation. The Feasibility Study and Remedial Investigation were approved on 10/29/2008 and 11/14/2008, respectively. Most detections of TCE, PCE, and VC are at or below regulatory levels.

New monitoring wells were installed on December 2009, mainly as se ntinel wells to ensure that the plume does not move further off site. The PCE plume is still only detected in one drinking water well, which has a functional GAC unit.

The South Landfill was inspected in 2005 and 2010, several 55-gall on drums were noted as exposed and ruptured at the site. An oily sheen was also reported in the stream near the abandoned drums. The Corps of Engineers were notified about the issue and have sampled the Site in November 2010. Surface water sample results were inconclusive and the sheen is thought to be from a naturally occuring bacteria. The exposed drums will be covered or removed as funds become available.

Site ID: 1222 Has Env Use Control: No

Project code: C408970143

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

FORBES AFB (Continued)

PM Name: DANEKE, T. Site Status: Active NEDO District Office:

38.94977 / -95.67838 Lat/Long: River Basin: KS - Lower Republican

Aquifer Yield: Alluvial Other Aquifers: Glacial Drift Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS7570090020 Discovery Date: 01/01/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm **GW Flow Direction:**

Acres Affected: >500 acres

Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites) Lead Agency: BER - Assessment and Restoration

Heavy Metal, VOC Contaminants: Media Act: Ground Water, Soil Media Pot: Surface Water

Source: Abandoned Facility, Underground Tank/Piping, Closed Non-Permitted Landfill

Land Use: Agricultural, Commercial, Industrial

Domestic, Monitoring Private well:

Waste Present: Not reported Product: Not reported Receptor Act: Private Well Receptor Pot: Human Remed Air: Not reported Remed Soil: Landfarming

Long Term Monitoring Remed Water: Remedir: Whole House Treatment

FORBES AIR FORCE BASE; FORBES FIELD; METROPOLITAN TOPEKA AIRPORT AUTHORITY; MTAA; TOP Alias:

Eucan Number: Not reported Date: Not reported

Activity Type: Interim Remedial Measure - source

Activity Status: Completed Activity Start Date: 01/01/1996 Activity End Date: 10/31/2000

The site was an Army Airfield from approximately 1942 to 1945, then Narrative:

became an Air Force base in the 1950s. The Air Force transferred most of the site to the City of Topeka in 1976 for use as a municipal airport and industrial park. The remainder of the site is used by

the Air National Guard and the Army National

Guard.

Approximately 70 underground storage tanks were removed in the ear ly 1990s by USACE. A site investigation was performed by USACE in 1995, which identified the two landfills at the site as posing the greatest risk. However, groundwater at the rest of the site was not investigated. Eight monitoring events for groundwater at the

landfills were performed in 2000 and 2001, and demonstrated long-term

VOC contamination above

MCLs.

In March 2007, under the Military Munitions Response Program, USAC E conducted a site inspection of the skeet range, the pistol range,

1007471001

Map ID MAP FINDINGS
Direction

EDR ID Number
Site Database(s) EPA ID Number

FORBES AFB (Continued)

Distance

Elevation

1007471001

and the firing-in-butt range. It also conducted a reconnaissance of four suspected burial areas. Elevated lead concentrations were found in soil at the firing-in-butt range. The SI report has recommended a remedial investigation/feasibility study at the firing-in-butt range, and further investigation of subsurface anomalies detected at two suspected burial areas.

In 2000, KDHE discovered a private water well just east of the nor th landfill which was contaminated with vinyl chloride above its MCL, and USACE provided water filtration and bottled water. In July 2006, USACE completed installing a replacement residential well. However, the new well is impacted with bacteria contamination and the water is not suitable for drinking purposes. This well will be abandoned in FY 2007 and USACE will continue to maintain existing GAC Unit

USACE completed a Phase 1 Remedial Investigation in 2003 which fur ther characterized the groundwater around the two landfills. The Phase 2 RI was completed in January 2005.

KDHE completed a site wide SI in November 2004. Substantial soil and groundwater contamination (fuels and solvents) was found at the former aircraft fire training area. VOCs were found in groundwater near buildings 602 and 624. The SI report recommended further investigation. The Feasibility Study and Remedial Investigation were approved on 10/29/2008 and 11/14/2008, respectively. Most detections of TCE, PCE, and VC are at or below regulatory levels.

New monitoring wells were installed on December 2009, mainly as se ntinel wells to ensure that the plume does not move further off site. The PCE plume is still only detected in one drinking water well, which has a functional GAC unit.

The South Landfill was inspected in 2005 and 2010, several 55-gall on drums were noted as exposed and ruptured at the site. An oily sheen was also reported in the stream near the abandoned drums. The Corps of Engineers were notified about the issue and have sampled the Site in November 2010. Surface water sample results were inconclusive and the sheen is thought to be from a naturally occuring bacteria. The exposed drums will be covered or removed as funds become available.

Site ID: 1222 Has Env Use Control: No

Project code: C408970143
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94977 / -95.67838
River Basin: KS - Lower Republican

Aquifer Yield: Alluvial Other Aquifers: Glacial Drift Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS7570090020 Discovery Date: 01/01/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm

Direction Distance

Elevation Site Database(s) EPA ID Number

FORBES AFB (Continued)

1007471001

EDR ID Number

GW Flow Direction: E

Acres Affected: >500 acres
Waste Present: No
Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration

Contaminants: Heavy Metal, VOC Media Act: Ground Water, Soil Media Pot: Surface Water

Source: Abandoned Facility, Underground Tank/Piping, Closed Non-Permitted Landfill

Land Use: Agricultural, Commercial, Industrial

Private well: Domestic, Monitoring

Waste Present:
Product:
Receptor Act:
Receptor Pot:
Remed Air:
Remed Soil:
Not reported
Human
Not reported
Landfarming

Remed Water: Long Term Monitoring
Remedir: Whole House Treatment

Alias: FORBES AIR FORCE BASE; FORBES FIELD; METROPOLITAN TOPEKA AIRPORT AUTHORITY; MTAA; TOP

Eucan Number: Not reported Date: Not reported

Activity Type: Long Term Monitoring

Activity Status: Underway
Activity Start Date: 01/01/2000
Activity End Date: Not reported

Narrative: The site was an Army Airfield from approximately 1942 to 1945, then

became an Air Force base in the 1950s. The Air Force transferred most of the site to the City of Topeka in 1976 for use as a municipal airport and industrial park. The remainder of the site is used by

the Air National Guard and the Army National

Guard.

Approximately 70 underground storage tanks were removed in the ear ly 1990s by USACE. A site investigation was performed by USACE in 1995, which identified the two landfills at the site as posing the greatest risk. However, groundwater at the rest of the site was not investigated. Eight monitoring events for groundwater at the

landfills were performed in 2000 and 2001, and demonstrated long-term

VOC contamination above

MCLs.

In March 2007, under the Military Munitions Response Program, USAC E conducted a site inspection of the skeet range, the pistol range, and the firing-in-butt range. It also conducted a reconnaissance of four suspected burial areas. Elevated lead concentrations were found in soil at the firing-in-butt range. The SI report has recommended a remedial investigation/feasibility study at the firing-in-butt range, and further investigation of subsurface anomalies detected at two suspected burial areas.

In 2000, KDHE discovered a private water well just east of the nor th landfill which was contaminated with vinyl chloride above its MCL, and USACE provided water filtration and bottled water. In July 2006, USACE completed installing a replacement residential well. However, the new well is impacted with bacteria contamination and the water is not suitable for drinking purposes. This well will be abandoned in FY 2007 and USACE will continue to maintain existing GAC

Unit.

Direction Distance Elevation

Site Database(s) EPA ID Number

FORBES AFB (Continued)

1007471001

EDR ID Number

USACE completed a Phase 1 Remedial Investigation in 2003 which fur ther characterized the groundwater around the two landfills. The Phase 2 RI was completed in January 2005.

KDHE completed a site wide SI in November 2004. Substantial soil and groundwater contamination (fuels and solvents) was found at the former aircraft fire training area. VOCs were found in groundwater near buildings 602 and 624. The SI report recommended further investigation. The Feasibility Study and Remedial Investigation were approved on 10/29/2008 and 11/14/2008, respectively. Most detections of TCE, PCE, and VC are at or below regulatory levels.

New monitoring wells were installed on December 2009, mainly as se ntinel wells to ensure that the plume does not move further off site. The PCE plume is still only detected in one drinking water well, which has a functional GAC unit

The South Landfill was inspected in 2005 and 2010, several 55-gall on drums were noted as exposed and ruptured at the site. An oily sheen was also reported in the stream near the abandoned drums. The Corps of Engineers were notified about the issue and have sampled the Site in November 2010. Surface water sample results were inconclusive and the sheen is thought to be from a naturally occuring bacteria. The exposed drums will be covered or removed as funds become available.

Site ID: 1222 Has Env Use Control: No

Project code: C408970143
PM Name: DANEKE, T.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94977 / -95.67838
River Basin: KS - Lower Republican

Aquifer Yield: Alluvial Other Aquifers: Glacial Drift Parent PC: Not reported Parent Name: Not reported KS7570090020 CERCLIS ID: Discovery Date: 01/01/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction:

Acres Affected: >500 acres
Waste Present: No
Product Present: No

Program: FUDS (Formerly Used Defense Sites)
Lead Agency: BER - Assessment and Restoration

Contaminants: Heavy Metal, VOC Media Act: Ground Water, Soil Media Pot: Surface Water

Source: Abandoned Facility, Underground Tank/Piping, Closed Non-Permitted Landfill

Land Use: Agricultural, Commercial, Industrial

Private well: Domestic, Monitoring Waste Present: Not reported Product: Not reported

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

FORBES AFB (Continued) 1007471001

Receptor Act: Private Well
Receptor Pot: Human
Remed Air: Not reported
Remed Soil: Landfarming

Remed Water: Long Term Monitoring
Remedir: Whole House Treatment

Alias: FORBES AIR FORCE BASE; FORBES FIELD; METROPOLITAN TOPEKA AIRPORT AUTHORITY; MTAA; TOP

Eucan Number: Not reported Date: Not reported

Activity Type: Expanded Site Inspection

Activity Status: Completed Activity Start Date: 03/01/2004 Activity End Date: 11/01/2004

Narrative: The site was an Army Airfield from approximately 1942 to 1945, then

became an Air Force base in the 1950s. The Air Force transferred most of the site to the City of Topeka in 1976 for use as a municipal airport and industrial park. The remainder of the site is used by

the Air National Guard and the Army National

Guard.

Approximately 70 underground storage tanks were removed in the ear ly 1990s by USACE. A site investigation was performed by USACE in 1995, which identified the two landfills at the site as posing the greatest risk. However, groundwater at the rest of the site was not investigated. Eight monitoring events for groundwater at the landfills were performed in 2000 and 2001, and demonstrated long-term VOC contamination above

MCLs.

In March 2007, under the Military Munitions Response Program, USAC E conducted a site inspection of the skeet range, the pistol range, and the firing-in-butt range. It also conducted a reconnaissance of four suspected burial areas. Elevated lead concentrations were found in soil at the firing-in-butt range. The SI report has recommended a remedial investigation/feasibility study at the firing-in-butt range, and further investigation of subsurface anomalies detected at two suspected burial areas.

In 2000, KDHE discovered a private water well just east of the nor th landfill which was contaminated with vinyl chloride above its MCL, and USACE provided water filtration and bottled water. In July 2006, USACE completed installing a replacement residential well. However, the new well is impacted with bacteria contamination and the water is not suitable for drinking purposes. This well will be abandoned in FY 2007 and USACE will continue to maintain existing GAC Unit.

USACE completed a Phase 1 Remedial Investigation in 2003 which fur ther characterized the groundwater around the two landfills. The Phase 2 RI was completed in January 2005.

KDHE completed a site wide SI in November 2004. Substantial soil and groundwater contamination (fuels and solvents) was found at the former aircraft fire training area. VOCs were found in groundwater near buildings 602 and 624. The SI report recommended further investigation. The Feasibility Study and Remedial Investigation were approved on 10/29/2008 and 11/14/2008, respectively. Most detections of TCE, PCE, and VC are at or below regulatory levels.

New monitoring wells were installed on December 2009, mainly as se ntinel wells to ensure that the plume does not move further off site.

EDR ID Number

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FORBES AFB (Continued) 1007471001

> The PCE plume is still only detected in one drinking water well, which has a functional GAC

unit.

The South Landfill was inspected in 2005 and 2010, several 55-gall on drums were noted as exposed and ruptured at the site. An oily sheen was also reported in the stream near the abandoned drums. The Corps of Engineers were notified about the issue and have sampled the Site in November 2010. Surface water sample results were inconclusive and the sheen is thought to be from a naturally occuring bacteria. The exposed drums will be covered or removed as funds become available.

Site ID: 1222 Has Env Use Control: No

C408970143 Project code: PM Name: DANEKE, T. Site Status: Active District Office: **NEDO**

Lat/Long: 38.94977 / -95.67838 KS - Lower Republican River Basin:

Aquifer Yield: Alluvial Other Aquifers: Glacial Drift Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS7570090020 01/01/1990 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction:

Acres Affected: >500 acres Waste Present: No Product Present: No

Program: FUDS (Formerly Used Defense Sites) BER - Assessment and Restoration Lead Agency:

Heavy Metal, VOC Contaminants: Ground Water, Soil Media Act: Media Pot: Surface Water

Abandoned Facility, Underground Tank/Piping, Closed Non-Permitted Landfill Source:

Land Use: Agricultural, Commercial, Industrial

Domestic, Monitoring Private well:

Not reported Waste Present: Product: Not reported Receptor Act: Private Well Receptor Pot: Human Remed Air: Not reported Remed Soil: Landfarming

Remed Water: Long Term Monitoring Remedir: Whole House Treatment

Alias: FORBES AIR FORCE BASE; FORBES FIELD; METROPOLITAN TOPEKA AIRPORT AUTHORITY; MTAA; TOF

Eucan Number: Not reported Date: Not reported

Activity Type: Remedial Investigation

Activity Status: Completed Activity Start Date: 01/01/2002 Activity End Date: 01/01/2005

Narrative: The site was an Army Airfield from approximately 1942 to 1945, then Map ID Direction Distance Elevation

Site

MAP FINDINGS

Database(s)

FORBES AFB (Continued)

1007471001

EDR ID Number

EPA ID Number

became an Air Force base in the 1950s. The Air Force transferred most of the site to the City of Topeka in 1976 for use as a municipal airport and industrial park. The remainder of the site is used by the Air National Guard and the Army National Guard

Approximately 70 underground storage tanks were removed in the ear ly 1990s by USACE. A site investigation was performed by USACE in 1995, which identified the two landfills at the site as posing the greatest risk. However, groundwater at the rest of the site was not investigated. Eight monitoring events for groundwater at the landfills were performed in 2000 and 2001, and demonstrated long-term VOC contamination above MCLs.

In March 2007, under the Military Munitions Response Program, USAC E conducted a site inspection of the skeet range, the pistol range, and the firing-in-butt range. It also conducted a reconnaissance of four suspected burial areas. Elevated lead concentrations were found in soil at the firing-in-butt range. The SI report has recommended a remedial investigation/feasibility study at the firing-in-butt range, and further investigation of subsurface anomalies detected at two suspected burial areas.

In 2000, KDHE discovered a private water well just east of the nor th landfill which was contaminated with vinyl chloride above its MCL, and USACE provided water filtration and bottled water. In July 2006, USACE completed installing a replacement residential well. However, the new well is impacted with bacteria contamination and the water is not suitable for drinking purposes. This well will be abandoned in FY 2007 and USACE will continue to maintain existing GAC Unit

USACE completed a Phase 1 Remedial Investigation in 2003 which fur ther characterized the groundwater around the two landfills. The Phase 2 RI was completed in January 2005.

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New monitoring wells were installed on December 2009, mainly as se ntinel wells to ensure that the plume does not move further off site. The PCE plume is still only detected in one drinking water well, which has a functional GAC unit

The South Landfill was inspected in 2005 and 2010, several 55-gall on drums were noted as exposed and ruptured at the site. An oily sheen was also reported in the stream near the abandoned drums. The Corps of Engineers were notified about the issue and have sampled the Site in November 2010. Surface water sample results were inconclusive and the sheen is thought to be from a naturally occuring bacteria. The exposed drums will be covered or removed as funds become available.

Site ID: 1222 Has Env Use Control: No

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

FORBES AFB (Continued) 1007471001

Project code: C408970143 PM Name: DANEKE, T. Site Status: Active **NEDO** District Office:

Lat/Long: 38.94977 / -95.67838 River Basin: KS - Lower Republican

Aquifer Yield: Alluvial Other Aquifers: Glacial Drift Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS7570090020 Discovery Date: 01/01/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm

GW Flow Direction:

>500 acres Acres Affected:

Waste Present: No Product Present:

FUDS (Formerly Used Defense Sites) Program: BER - Assessment and Restoration Lead Agency:

Contaminants: Heavy Metal, VOC Ground Water, Soil Media Act: Media Pot: Surface Water

Source: Abandoned Facility, Underground Tank/Piping, Closed Non-Permitted Landfill

Land Use: Agricultural, Commercial, Industrial

Private well: Domestic, Monitoring

Waste Present: Not reported Product: Not reported Private Well Receptor Act: Receptor Pot: Human Remed Air: Not reported Remed Soil: Landfarming

Remed Water: Long Term Monitoring Whole House Treatment Remedir:

FORBES AIR FORCE BASE; FORBES FIELD; METROPOLITAN TOPEKA AIRPORT AUTHORITY; MTAA; TOF Alias:

Eucan Number: Not reported Date: Not reported Activity Type: Site Inspection **Activity Status:** Completed Activity Start Date: 01/01/1994 Activity End Date: 07/31/1995

Narrative: The site was an Army Airfield from approximately 1942 to 1945, then

> became an Air Force base in the 1950s. The Air Force transferred most of the site to the City of Topeka in 1976 for use as a municipal airport and industrial park. The remainder of the site is used by

the Air National Guard and the Army National

Approximately 70 underground storage tanks were removed in the ear ly 1990s by USACE. A site investigation was performed by USACE in 1995, which identified the two landfills at the site as posing the greatest risk. However, groundwater at the rest of the site was not investigated. Eight monitoring events for groundwater at the

landfills were performed in 2000 and 2001, and demonstrated long-term

VOC contamination above

MCLs.

In March 2007, under the Military Munitions Response Program, USAC

Map ID Direction Distance Elevation MAP FINDINGS

EDR ID Number
Site Database(s) EPA ID Number

FORBES AFB (Continued)

1007471001

E conducted a site inspection of the skeet range, the pistol range, and the firing-in-butt range. It also conducted a reconnaissance of four suspected burial areas. Elevated lead concentrations were found in soil at the firing-in-butt range. The SI report has recommended a remedial investigation/feasibility study at the firing-in-butt range, and further investigation of subsurface anomalies detected at two suspected burial areas.

In 2000, KDHE discovered a private water well just east of the nor th landfill which was contaminated with vinyl chloride above its MCL, and USACE provided water filtration and bottled water. In July 2006, USACE completed installing a replacement residential well. However, the new well is impacted with bacteria contamination and the water is not suitable for drinking purposes. This well will be abandoned in FY 2007 and USACE will continue to maintain existing GAC

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7 PAULINE FARM STORE (FORMER FCA) NNE 416 SW 57TH ST (ALSO 418 AND 420) 1/2-1 TOPEKA (PAULINE), KS 66619

0.881 mi. 4650 ft.

Relative: SHWS:

Higher Site ID: 1241

Has Env Use Control: No

 Actual:
 Project code:
 C408971586

 1019 ft.
 PM Name:
 BURRIS, N.

 Site Status:
 Active

 District Office:
 NEDO

Lat/Long: 38.96704 / -95.68867
River Basin: KS - Lower Republican

Aquifer Yield: Unknown
Other Aquifers: Not reported

SHWS S106891163 N/A Map ID MAP FINDINGS
Direction

Distance Elevation

ation Site Database(s) EPA ID Number

PAULINE FARM STORE (FORMER FCA) (Continued)

S106891163

EDR ID Number

Parent PC: Not reported Parent Name: Not reported Not reported CERCLIS ID: 04/18/2001 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: N-NE Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: State Cooperative Lead Agency: BER - Remedial

Contaminants: Heavy Metal, Nitrates, Pesticide, Refined Petroleum, VOC

Media Act: Ground Water, Soil
Media Pot: Not reported

Source: Agricultural Facility, Facility Operations, Other (see Site Narrative)

Land Use: Agricultural, Residential

Private well: Not reported Waste Present: Not reported Not reported Product: Receptor Act: Not reported Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Not reported Remed Water: Not reported Remedir: Not reported Alias: Not reported Eucan Number: Not reported Date: Not reported

Activity Type: Voluntary Agreement

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 04/22/2002

Narrative: The Pauline Farm Store site was referred to the Voluntary Cleanup and

Property Redevelopment Program (VCPRP) when a limited phase II assessment was made of the property in 2001. The property has historically been used for several types of commercial and industrial uses including a fuel and farm store. The phase II assessment revealed the presence of contamination at the site by volatile organic compounds (VOCs), nitrate and ammonia, gasoline and fuel

related compounds, and pesticides.

The site was accepted into the VCPRP in April 2002 and in August 2 002, the property was sold to Lindemuth Inc., the new entity that is responsible for site cleanup. The voluntary agreement was terminated with the former property owner and a new voluntary agreement was made between Lindemuth Inc. and KDHE in February 2003. A Voluntary Cleanup Investigation Work Plan was required for submission by May 2003; however, no VCI work plan was submitted to KDHE by Lindemuth Inc. Having never received a VCI Work Plan, the voluntary agreement was terminated by KDHE in October 2003 and the site was transferred to the State Cooperative Program. An administrative order was

executed by KDHE in July 2004 for a comprehensive investigation/corrective action study (CI/CAS) scope of work and a

corrective action plan/corrective action (CAP/CA) scope of

work.

Limited investigation activities were completed at the site in 200

Direction Distance Elevation

ation Site Database(s) EPA ID Number

PAULINE FARM STORE (FORMER FCA) (Continued)

S106891163

EDR ID Number

5 and 2006 and KDHE requested that a work plan be implemented at the site where investigation activities would be comprehensive.

Lindemuth Inc. did not submit a work plan that addressed the outstanding concerns of the Agency, but by early 2009, additional investigation activities were resumed at the site and a report of comprehensive investigation activities was submitted in January 2010. Additional work was completed at the site in 2010 including the installation of additional monitoring wells. A work plan for

additional data collection was approved for implementation in May

2011.

Site ID: 1241 Has Env Use Control: No

Project code: C408971586
PM Name: BURRIS, N.
Site Status: Active
District Office: NEDO

Lat/Long: 38.96704 / -95.68867 River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: Not reported 04/18/2001 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: N-NE Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: State Cooperative Lead Agency: BER - Remedial

Contaminants: Heavy Metal, Nitrates, Pesticide, Refined Petroleum, VOC

Media Act: Ground Water, Soil
Media Pot: Not reported

Source: Agricultural Facility, Facility Operations, Other (see Site Narrative)

Land Use: Agricultural, Residential

Private well: Not reported Waste Present: Not reported Not reported Product: Receptor Act: Not reported Receptor Pot: Not reported Not reported Remed Air: Remed Soil: Not reported Remed Water: Not reported Remedir: Not reported Alias: Not reported Eucan Number: Not reported Date: Not reported

Activity Type: Transfer Within Bureau

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 10/17/2003

Narrative: The Pauline Farm Store site was referred to the Voluntary Cleanup and

Property Redevelopment Program (VCPRP) when a limited phase II

Direction Distance Elevation

Site Database(s) EPA ID Number

PAULINE FARM STORE (FORMER FCA) (Continued)

S106891163

EDR ID Number

assessment was made of the property in 2001. The property has historically been used for several types of commercial and industrial uses including a fuel and farm store. The phase II assessment revealed the presence of contamination at the site by volatile organic compounds (VOCs), nitrate and ammonia, gasoline and fuel related compounds, and pesticides.

The site was accepted into the VCPRP in April 2002 and in August 2 002, the property was sold to Lindemuth Inc., the new entity that is responsible for site cleanup. The voluntary agreement was terminated with the former property owner and a new voluntary agreement was made between Lindemuth Inc. and KDHE in February 2003. A Voluntary Cleanup Investigation Work Plan was required for submission by May 2003; however, no VCI work plan was submitted to KDHE by Lindemuth Inc. Having never received a VCI Work Plan, the voluntary agreement was terminated by KDHE in October 2003 and the site was transferred to the State Cooperative Program. An administrative order was executed by KDHE in July 2004 for a comprehensive investigation/corrective action study (CI/CAS) scope of work and a corrective action plan/corrective action (CAP/CA) scope of work.

Limited investigation activities were completed at the site in 200 5 and 2006 and KDHE requested that a work plan be implemented at the site where investigation activities would be comprehensive. Lindemuth Inc. did not submit a work plan that addressed the outstanding concerns of the Agency, but by early 2009, additional investigation activities were resumed at the site and a report of comprehensive investigation activities was submitted in January 2010. Additional work was completed at the site in 2010 including the installation of additional monitoring wells. A work plan for additional data collection was approved for implementation in May 2011.

Site ID: 1241 Has Env Use Control: No

Project code: C408971586
PM Name: BURRIS, N.
Site Status: Active
District Office: NEDO

Lat/Long: 38.96704 / -95.68867
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: Not reported Discovery Date: 04/18/2001 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: N-NE Acres Affected: 5-25 acres Waste Present: No Product Present: No

Program: State Cooperative Lead Agency: BER - Remedial

Contaminants: Heavy Metal, Nitrates, Pesticide, Refined Petroleum, VOC

Media Act: Ground Water, Soil

Direction Distance Elevation

EPA ID Number Site Database(s)

PAULINE FARM STORE (FORMER FCA) (Continued)

S106891163

EDR ID Number

Media Pot: Not reported

Agricultural Facility, Facility Operations, Other (see Site Narrative) Source:

Land Use: Agricultural, Residential

Private well: Not reported Waste Present: Not reported Product: Not reported Receptor Act: Not reported Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Not reported Not reported Remed Water: Not reported Remedir: Alias: Not reported Not reported Eucan Number: Date: Not reported Activity Type: Administrative Order

Activity Status: Underway Activity Start Date: 07/23/2004 Activity End Date: 07/23/2004

Narrative: The Pauline Farm Store site was referred to the Voluntary Cleanup and

Property Redevelopment Program (VCPRP) when a limited phase II assessment was made of the property in 2001. The property has historically been used for several types of commercial and industrial uses including a fuel and farm store. The phase II assessment revealed the presence of contamination at the site by volatile organic compounds (VOCs), nitrate and ammonia, gasoline and fuel related compounds, and pesticides.

The site was accepted into the VCPRP in April 2002 and in August 2 002, the property was sold to Lindemuth Inc., the new entity that is responsible for site cleanup. The voluntary agreement was terminated with the former property owner and a new voluntary agreement was made between Lindemuth Inc. and KDHE in February 2003. A Voluntary Cleanup Investigation Work Plan was required for submission by May 2003; however, no VCI work plan was submitted to KDHE by Lindemuth Inc. Having never received a VCI Work Plan, the voluntary agreement was terminated by KDHE in October 2003 and the site was transferred to the State Cooperative Program. An administrative order was executed by KDHE in July 2004 for a comprehensive

investigation/corrective action study (CI/CAS) scope of work and a corrective action plan/corrective action (CAP/CA) scope of work.

Limited investigation activities were completed at the site in 200 5 and 2006 and KDHE requested that a work plan be implemented at the site where investigation activities would be comprehensive. Lindemuth Inc. did not submit a work plan that addressed the outstanding concerns of the Agency, but by early 2009, additional investigation activities were resumed at the site and a report of comprehensive investigation activities was submitted in January 2010. Additional work was completed at the site in 2010 including the installation of additional monitoring wells. A work plan for additional data collection was approved for implementation in May 2011.

Site ID: 1241 Has Env Use Control: No

C408971586 Proiect code: PM Name: BURRIS, N.

Direction Distance Elevation

vation Site Database(s) EPA ID Number

PAULINE FARM STORE (FORMER FCA) (Continued)

S106891163

EDR ID Number

Site Status: Active
District Office: NEDO

Lat/Long: 38.96704 / -95.68867
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: Not reported Discovery Date: 04/18/2001 0-10 feet Depth To GW: Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm **GW Flow Direction:** N-NE Acres Affected: 5-25 acres Waste Present: No Product Present: Nο

Program: State Cooperative Lead Agency: BER - Remedial

Contaminants: Heavy Metal, Nitrates, Pesticide, Refined Petroleum, VOC

Media Act: Ground Water, Soil
Media Pot: Not reported

Source: Agricultural Facility, Facility Operations, Other (see Site Narrative)

Land Use: Agricultural, Residential

Private well: Not reported Not reported Waste Present: Product: Not reported Receptor Act: Not reported Receptor Pot: Not reported Not reported Remed Air: Remed Soil: Not reported Remed Water: Not reported Not reported Remedir: Alias: Not reported Not reported Eucan Number: Not reported Date:

Activity Type: Comprehensive Investigation

Activity Status: Underway
Activity Start Date: 07/23/2004
Activity End Date: Not reported

Narrative: The Pauline Farm Store site was referred to the Voluntary Cleanup and

Property Redevelopment Program (VCPRP) when a limited phase II assessment was made of the property in 2001. The property has historically been used for several types of commercial and industrial uses including a fuel and farm store. The phase II assessment revealed the presence of contamination at the site by volatile organic compounds (VOCs), nitrate and ammonia, gasoline and fuel

related compounds, and pesticides.

The site was accepted into the VCPRP in April 2002 and in August 2 002, the property was sold to Lindemuth Inc., the new entity that is responsible for site cleanup. The voluntary agreement was terminated with the former property owner and a new voluntary agreement was made between Lindemuth Inc. and KDHE in February 2003. A Voluntary Cleanup Investigation Work Plan was required for submission by May 2003; however, no VCI work plan was submitted to KDHE by Lindemuth Inc. Having never received a VCI Work Plan, the voluntary agreement was terminated by KDHE in October 2003 and the site was transferred

Direction Distance Elevation

evation Site Database(s) EPA ID Number

PAULINE FARM STORE (FORMER FCA) (Continued)

S106891163

EDR ID Number

to the State Cooperative Program. An administrative order was executed by KDHE in July 2004 for a comprehensive investigation/corrective action study (CI/CAS) scope of work and a corrective action plan/corrective action (CAP/CA) scope of work.

Limited investigation activities were completed at the site in 200 5 and 2006 and KDHE requested that a work plan be implemented at the site where investigation activities would be comprehensive.

Lindemuth Inc. did not submit a work plan that addressed the outstanding concerns of the Agency, but by early 2009, additional investigation activities were resumed at the site and a report of comprehensive investigation activities was submitted in January 2010. Additional work was completed at the site in 2010 including the installation of additional monitoring wells. A work plan for additional data collection was approved for implementation in May

2011.

Site ID: 1241 Has Env Use Control: No

Project code: C408971586
PM Name: BURRIS, N.
Site Status: Active
District Office: NEDO

Lat/Long: 38.96704 / -95.68867 River Basin: KS - Lower Republican

Unknown Aquifer Yield: Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: Not reported 04/18/2001 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: N-NE 5-25 acres Acres Affected: Waste Present: No Product Present: No

Program: State Cooperative Lead Agency: BER - Remedial

Contaminants: Heavy Metal, Nitrates, Pesticide, Refined Petroleum, VOC

Media Act: Ground Water, Soil
Media Pot: Not reported

Source: Agricultural Facility, Facility Operations, Other (see Site Narrative)

Land Use: Agricultural, Residential

Private well: Not reported Waste Present: Not reported Product: Not reported Receptor Act: Not reported Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Not reported Remed Water: Not reported Not reported Remedir: Alias: Not reported Eucan Number: Not reported Not reported Date:

Direction Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

PAULINE FARM STORE (FORMER FCA) (Continued)

S106891163

Activity Type: Voluntary Cleanup Investigation (VCI)

Activity Status: Proposed Activity Start Date: Not reported Activity End Date: Not reported

Narrative:

The Pauline Farm Store site was referred to the Voluntary Cleanup and Property Redevelopment Program (VCPRP) when a limited phase II assessment was made of the property in 2001. The property has historically been used for several types of commercial and industrial uses including a fuel and farm store. The phase II assessment revealed the presence of contamination at the site by volatile organic compounds (VOCs), nitrate and ammonia, gasoline and fuel related compounds, and pesticides.

The site was accepted into the VCPRP in April 2002 and in August 2 002, the property was sold to Lindemuth Inc., the new entity that is responsible for site cleanup. The voluntary agreement was terminated with the former property owner and a new voluntary agreement was made between Lindemuth Inc. and KDHE in February 2003. A Voluntary Cleanup Investigation Work Plan was required for submission by May 2003; however, no VCI work plan was submitted to KDHE by Lindemuth Inc. Having never received a VCI Work Plan, the voluntary agreement was terminated by KDHE in October 2003 and the site was transferred to the State Cooperative Program. An administrative order was executed by KDHE in July 2004 for a comprehensive investigation/corrective action study (CI/CAS) scope of work and a corrective action plan/corrective action (CAP/CA) scope of work.

Limited investigation activities were completed at the site in 200 5 and 2006 and KDHE requested that a work plan be implemented at the site where investigation activities would be comprehensive. Lindemuth Inc. did not submit a work plan that addressed the outstanding concerns of the Agency, but by early 2009, additional investigation activities were resumed at the site and a report of comprehensive investigation activities was submitted in January 2010. Additional work was completed at the site in 2010 including the installation of additional monitoring wells. A work plan for additional data collection was approved for implementation in May 2011.

8 **CHEMCO INDUSTRIES ESE FORBES FIELD BLD 638** 1/2-1 **TOPEKA, KS 66619**

CERCLIS 1000996441 KS0001118850 SHWS

0.959 mi. 5063 ft.

CERCLIS: Relative:

Site ID: 0702973 Higher KS0001118850 EPA ID: Actual: Facility County: SHAWNEE

1058 ft. Short Name: **CHEMCO INDUSTRIES**

> Congressional District: 02 IFMS ID: 07WK SMSA Number: 8440 **USGC Hydro Unit:** 10270102

Federal Facility: Not a Federal Facility

DMNSN Number: 0.90000 Site Orphan Flag: Ν

RCRA ID: Not reported USGS Quadrangle: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEMCO INDUSTRIES (Continued)

1000996441

Site Init By Prog: Not reported NFRAP Flag: Not reported Parent ID: Not reported

RST Code: EPA Region: 07

Manufacturing Plant Classification: 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: 20060919 Site Fips Code: 20177 CC Concurrence Date: Not reported CC Concurrence FY: Not reported Alias EPA ID: Not reported Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 7271674.00000 Contact Name: PAUL ROEMERMAN Contact Tel: (913) 551-7694

Contact Title: Site Assessment Manager (SAM)

Contact Email: Not reported

Alias Comments: Not reported

Site Description: IMPROPER STORAGE OF INCOMPATIBLE HAZARDOUS MATERIALS. HAZARDOUS MATERIALS

LEAKING BULDGING, POSING THREAT OF RELEASE TO ENVIRONMENT. IMPROPER STORAGE OF INCOMPATIBLE HAZARDOUS MATERIALS. HAZARDOUS MATERIALS LEAKING BULDGING, POSING

THREAT OF RELEASE TO ENVIRONMENT.

CERCLIS Assessment History:

Action Code: 001

DISCOVERY Action: Date Started: Not reported Date Completed: 06/15/1995 Priority Level: Not reported

SITE EVALUATION/DISPOSITION Operable Unit:

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

ISSUE REQUEST LETTERS (104E) Action:

Date Started: Not reported Date Completed: 10/12/1995 Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: Federal Enforcement

Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

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

Action Code: 002

Action: ISSUE REQUEST LETTERS (104E)

Date Started: Not reported
Date Completed: 10/12/1995
Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: Federal Enforcement Planning Status: Not reported

Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

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

Action Code: 002

Action: Notice Letters Issued

Date Started: Not reported
Date Completed: 06/03/1996
Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: Federal Enforcement

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: Notice Letters Issued

Date Started: Not reported
Date Completed: 06/03/1996
Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: Federal Enforcement

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: NEGOTIATION (GENERIC)

Date Started: 06/03/1996
Date Completed: 06/21/1996
Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: Federal Enforcement

Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEMCO INDUSTRIES (Continued)

1000996441

Action Code: 001

REMOVAL ASSESSMENT Action:

Date Started: 04/01/1996 Date Completed: 06/24/1996 Priority Level: Not reported

SITE EVALUATION/DISPOSITION Operable Unit:

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

NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH Action:

Date Started: 06/19/1995 06/24/1996 Date Completed:

Priority Level: Viable PRPs - Cannot Do Work Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: Federal Enforcement

Primary Planning Status: Urgency Indicator: Not reported Action Anomaly: Not reported

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

Action Code: 001 Action: REMOVAL Date Started: 06/24/1996 Date Completed: 07/08/1996 Priority Level: Cleaned up

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Primary Urgency Indicator: Time Critical Action Anomaly: Not reported

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

Action Code: 001

PRELIMINARY ASSESSMENT Action:

Date Started: 06/01/1996 Date Completed: 11/25/1996

Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: **EPA Fund-Financed**

Planning Status: Primary Not reported Urgency Indicator: Action Anomaly: Not reported

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

Action Code: 001

ARCHIVE SITE Action: Date Started: Not reported Date Completed: 07/08/2002

Direction Distance

Elevation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: EPA In-House 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 UNARCHIVED

Date Started: Not reported
Date Completed: 09/19/2006
Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: EPA In-House Planning Status: Not reported Urgency Indicator: Not reported Action Anomaly: Not reported

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

Action Code: 002

Action: REMOVAL ASSESSMENT

Date Started: Not reported
Date Completed: 12/13/2006
Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: State, 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: 002
Action: REMOVAL
Date Started: 12/13/2006
Date Completed: 12/15/2006
Priority Level: Cleaned up

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: EPA Fund-Financed

Planning Status: Approved
Urgency Indicator: Time Critical
Action Anomaly: Not reported

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

Action Code: 001

Action: COMMUNITY INVOLVEMENT

Date Started: 12/20/2006
Date Completed: 12/30/2006
Priority Level: Not reported

Operable Unit: SITE EVALUATION/DISPOSITION

Primary Responsibility: EPA Fund-Financed

Direction Distance

Elevation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

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 37 additional US CERCLIS Financial: record(s) in the EDR Site Report.

SHWS:

Site ID: 1244 Has Env Use Control: No

Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aguifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Product: Not reported Not reported Receptor Act: Receptor Pot: Not reported Not reported Remed Air: Off-Site Disposal Remed Soil: Remed Water: Not reported Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Preliminary Assessment (PA)

Activity Status: Underway
Activity Start Date: Not reported
Activity End Date: Not reported

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of

Map ID Direction Distance Elevation

MAP FINDINGS

Site EDR ID Number
Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

hazardous chemicals.

From November 27-29, 1995, the EPA and the contracted TAT (Ecology and Environmental, Inc.) to prepare an inventory of all the chemical containers that were part of the Chemco operation at the site. A total of 2,454 containers were identified, ranging from 1 ounce to 55 gallons in size, and with only 7 % of them characterized as deteriorating or already leaking.

The hazardous chemicals identified in the site included: liquids, solids, corrosives, flammable, oxidizers and poisons.

The EPA requested Chemco owner, Ken Halbert, to hire a qualified h azardous waste cleanup contractor to performed clean-up and disposal of the hazardous chemicals found on the site. He was given until June 21, 1996, to comply. When he failed EPA initiated an emergency removal.

Removal was conducted from June 24 to July 8, 1996. The inventori ed chemicals were divided into two categories: bulk wastes and laboratory chemicals. Bulk chemicals were segregated, characterized, consolidated into 13 waste streams consistinng of a total of 31 55 gallon drums. Laboratory chemicals were segregated into packing categories according to the 1995 inventory.

All drums were shipped off site and the removal was completed on J uly 8, 1996.

The removal action was conducted from June 24 to July 8, 1996. The inventoried chemicals were divided into two categories: bulk wastes and laboratory chemicals. Bulk wastes were segregated, characterized, and consolidated into 13 individual waste streams consisting of a total of 31 55- gallon drums. Laboratory chemicals were segregated into packing categories according to the 1995 inventory. All drums were shipped off-site and the removal was completed on July 8, 1996.

On July 27, 2006, KDHE was again contacted by the Kansas Departmen t of Agriculture regarding the site. Mr. Halbert apparently had improperly stored materials regulated by KDOA for which he lacked a license to apply. The KDOA inspector, Dan Tuggle, indicated other potentially hazardous substances were present at the site. Mr. Halbert passed away on February 29, 2006.

KDHE again referred the site in August, 2006 to EPA for a time-critical removal action. The removal action was completed in 2007, and the site needs a post-removal site assessment.

Site ID: 1244 Has Env Use Control: No

Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported

Direction
Distance

Elevation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

CERCLIS ID: KS0001118850
Discovery Date: 11/29/1990
Depth To GW: 0-10 feet
Depth To Bedrock: 0-10 feet
Aquifer Yield: 0-10 gpm
GW Flow Direction: Not reported
Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Not reported Private well: Waste Present: Not reported Product: Not reported Receptor Act: Not reported Not reported Receptor Pot: Remed Air: Not reported Off-Site Disposal Remed Soil: Remed Water: Not reported Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Initial Site Screening

Activity Status: Completed Activity Start Date: 11/27/1995 Activity End Date: 11/29/1995

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of

hazardous chemicals.

From November 27-29, 1995, the EPA and the contracted TAT (Ecology and Environmental, Inc.) to prepare an inventory of all the chemical containers that were part of the Chemco operation at the site. A total of 2,454 containers were identified, ranging from 1 ounce to 55 gallons in size, and with only 7 % of them characterized as

deteriorating or already

leaking.

The hazardous chemicals identified in the site included: liquids, solids, corrosives, flammable, oxidizers and

poisons.

The EPA requested Chemco owner, Ken Halbert, to hire a qualified h azardous waste cleanup contractor to performed clean-up and disposal of the hazardous chemicals found on the site. He was given until June 21, 1996, to comply. When he failed EPA initiated an emergency removal.

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Direction Distance

Elevation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

categories according to the 1995

inventory.

All drums were shipped off site and the removal was completed on J uly 8, $\,$

1996.

The removal action was conducted from June 24 to July 8, 1996. The inventoried chemicals were divided into two categories: bulk wastes and laboratory chemicals. Bulk wastes were segregated, characterized, and consolidated into 13 individual waste streams consisting of a total of 31 55- gallon drums. Laboratory chemicals were segregated into packing categories according to the 1995 inventory. All drums were shipped off-site and the removal was completed on July 8, 1996.

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KDHE again referred the site in August, 2006 to EPA for a time-critical removal action. The removal action was completed in 2007, and the site needs a post-removal site assessment.

Site ID: 1244 Has Env Use Control: No

Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported KS0001118850 CERCLIS ID: 11/29/1990 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm Not reported GW Flow Direction: Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well:

Waste Present:

Product:

Receptor Act:

Receptor Pot:

Remed Air:

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Map ID MAP FINDINGS
Direction

Direction Distance Elevation

n Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Remed Soil: Off-Site Disposal
Remed Water: Not reported
Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported
Date: Not reported
Activity Type: Referral to EPA
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 06/03/1996

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of

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From November 27-29, 1995, the EPA and the contracted TAT (Ecology and Environmental, Inc.) to prepare an inventory of all the chemical containers that were part of the Chemco operation at the site. A total of 2,454 containers were identified, ranging from 1 ounce to 55 gallons in size, and with only 7 % of them characterized as deteriorating or already

leaking.

The hazardous chemicals identified in the site included: liquids, solids, corrosives, flammable, oxidizers and poisons.

The EPA requested Chemco owner, Ken Halbert, to hire a qualified h azardous waste cleanup contractor to performed clean-up and disposal of the hazardous chemicals found on the site. He was given until June 21, 1996, to comply. When he failed EPA initiated an emergency removal.

Removal was conducted from June 24 to July 8, 1996. The inventori ed chemicals were divided into two categories: bulk wastes and laboratory chemicals. Bulk chemicals were segregated, characterized, consolidated into 13 waste streams consistinng of a total of 31 55 gallon drums. Laboratory chemicals were segregated into packing categories according to the 1995 inventory.

All drums were shipped off site and the removal was completed on J uly 8,

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Direction Distance

Elevation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Site ID: 1244 Has Env Use Control: No

Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Not reported Parent Name: CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Not reported Waste Present: Not reported Product: Receptor Act: Not reported Receptor Pot: Not reported Remed Air: Not reported Off-Site Disposal Remed Soil: Remed Water: Not reported Not reported Remedir:

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Removal Site Evaluation

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 06/03/1996

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

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gallons in size, and with only 7 % of them characterized as

deteriorating or already

leaking.

The hazardous chemicals identified in the site included: liquids,

Map ID Direction Distance

Elevation

MAP FINDINGS

Site EDR ID Number
Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

solids, corrosives, flammable, oxidizers and poisons.

The EPA requested Chemco owner, Ken Halbert, to hire a qualified h azardous waste cleanup contractor to performed clean-up and disposal of the hazardous chemicals found on the site. He was given until June 21, 1996, to comply. When he failed EPA initiated an emergency removal.

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Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm **GW Flow Direction:** Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment

Direction Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Product: Not reported Receptor Act: Not reported Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported
Date: Not reported
Activity Type: Removal Action
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 07/15/1996

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Direction Distance Elevation

on Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

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Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aguifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported KS0001118850 CERCLIS ID: Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet 0-10 gpm Aquifer Yield: GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Not reported Private well: Waste Present: Not reported Not reported Product: Not reported Receptor Act: Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported
Date: Not reported
Activity Type: Removal Action
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 07/08/1996

Map ID Direction Distance Elevation

MAP FINDINGS

Site EDR ID Number
Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

Narrative:

On June 1995, KDHErequested EPA assistance to determine whether conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of hazardous chemicals.

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Site ID: 1244
Has Env Use Control: No
Project code: C408971656

PM Name: BROWN, R.

Site Status: Active

District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown

Map ID MAP FINDINGS Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEMCO INDUSTRIES (Continued)

1000996441

Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm **GW Flow Direction:** Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC Contaminants:

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative) Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Product: Not reported Not reported Receptor Act: Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Remedir: Not reported

BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT Alias:

Not reported Eucan Number: Not reported Date: Activity Type: Remedial Action **Activity Status:** Completed Activity Start Date: 06/24/1996 07/08/1996 Activity End Date:

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of

hazardous chemicals.

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Removal was conducted from June 24 to July 8, 1996. The inventori ed chemicals were divided into two categories: bulk wastes and

EDR ID Number
Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

Distance

Elevation

1000996441

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All drums were shipped off site and the removal was completed on J uly 8, 1996.

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Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported KS0001118850 CERCLIS ID: Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Product: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Receptor Act:
Receptor Pot:
Remed Air:
Remed Soil:
Remed Water:
Remedir:
Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Transfer Within Bureau

Activity Status: Completed Activity Start Date: 07/01/2006 Activity End Date: 07/01/2006

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

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Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

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Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Not reported Acres Affected: Waste Present: No

Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Not reported Private well: Waste Present: Not reported Not reported Product: Not reported Receptor Act: Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Not reported Remedir:

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Transfer Within Bureau

Activity Status: Completed Activity Start Date: 07/27/2006
Activity End Date: 07/27/2006

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Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

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Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm **GW Flow Direction:** Not reported

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Not reported Private well: Not reported Waste Present: Product: Not reported Not reported Receptor Act: Receptor Pot: Not reported Remed Air: Not reported Off-Site Disposal Remed Soil: Remed Water: Not reported Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Preliminary Removal Evaluation

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 08/31/2006

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

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Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

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Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674

River Basin: KS - Lower Republican

Unknown Aquifer Yield: Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 11/29/1990 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Product: Not reported Receptor Act: Not reported Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Not reported Remedir:

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

EDR ID Number
Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

Distance

Elevation

Site

1000996441

Activity Type: Preliminary Removal Evaluation

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 08/31/2006

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Project code: C408971656
PM Name: BROWN, R.
Site Status: Active

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

CHEMCO INDUSTRIES (Continued)

1000996441

District Office: **NEDO**

38.94971 / -95.67674 Lat/Long: River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 11/29/1990 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Not reported Media Pot:

Source: Other (see Site Narrative) Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Not reported Product: Receptor Act: Not reported Receptor Pot: Not reported Remed Air: Not reported Off-Site Disposal Remed Soil: Remed Water: Not reported Remedir: Not reported

BIO-SURE; CHALLENGER PRODUCTS CORPORATION: HALBERT, KEN; KEN HALBERT Alias:

Eucan Number: Not reported Not reported Date:

Activity Type: Preliminary Removal Evaluation

Activity Status: Completed **Activity Start Date:** Not reported Activity End Date: 08/30/2006

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Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

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PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 11/29/1990 Discovery Date: Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)

Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Land Use: Commercial, Industrial

Not reported Private well: Not reported Waste Present: Product: Not reported Receptor Act: Not reported Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Transfer Within Bureau

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 09/14/2006

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

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Direction Distance Elevation

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CHEMCO INDUSTRIES (Continued)

1000996441

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Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

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Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
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Activity Type: Transfer Within Bureau

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 09/14/2006

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Map ID Direction

Distance

Elevation

MAP FINDINGS

EDR ID Number
Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

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Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: KS0001118850
Discovery Date: 11/29/1990

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

Depth To GW: 0-10 feet
Depth To Bedrock: 0-10 feet
Aquifer Yield: 0-10 gpm
GW Flow Direction: Not reported
Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Not reported Product: Receptor Act: Not reported Receptor Pot: Not reported Remed Air: Not reported Off-Site Disposal Remed Soil: Remed Water: Not reported Not reported Remedir:

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Removal Action Memorandum

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 12/13/2006

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of

hazardous chemicals.

From November 27-29, 1995, the EPA and the contracted TAT (Ecology and Environmental, Inc.) to prepare an inventory of all the chemical containers that were part of the Chemco operation at the site. A total of 2,454 containers were identified, ranging from 1 ounce to 55 gallons in size, and with only 7 % of them characterized as

deteriorating or already

leaking.

The hazardous chemicals identified in the site included: liquids, solids, corrosives, flammable, oxidizers and poisons.

The EPA requested Chemco owner, Ken Halbert, to hire a qualified h azardous waste cleanup contractor to performed clean-up and disposal of the hazardous chemicals found on the site. He was given until June 21, 1996, to comply. When he failed EPA initiated an emergency removal.

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categories according to the 1995

inventory.

Direction Distance Elevation

on Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

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KDHE again referred the site in August, 2006 to EPA for a time-critical removal action. The removal action was completed in 2007, and the site needs a post-removal site assessment.

Site ID: 1244 Has Env Use Control: No

Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Unknown Aquifer Yield: Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 0-10 feet Depth To GW: Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Not reported Private well: Waste Present: Not reported Product: Not reported Receptor Act: Not reported Receptor Pot: Not reported Remed Air: Not reported Off-Site Disposal Remed Soil: Remed Water: Not reported

Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

CHEMCO INDUSTRIES (Continued)

1000996441

Remedir: Not reported

BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT Alias:

Eucan Number: Not reported Date: Not reported Activity Type: Removal Action **Activity Status:** Completed Not reported Activity Start Date: 12/13/2006 Activity End Date:

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

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Site ID: 1244

Distance

Elevation Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Has Env Use Control: No

Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported KS0001118850 CERCLIS ID: Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm Not reported **GW Flow Direction:** Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Not reported Product: Not reported Receptor Act: Receptor Pot: Not reported Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Not reported Remedir:

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported
Date: Not reported
Activity Type: Referral to EPA
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 12/13/2006

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of

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From November 27-29, 1995, the EPA and the contracted TAT (Ecology and Environmental, Inc.) to prepare an inventory of all the chemical containers that were part of the Chemco operation at the site. A total of 2,454 containers were identified, ranging from 1 ounce to 55 gallons in size, and with only 7 % of them characterized as

deteriorating or already

leaking.

The hazardous chemicals identified in the site included: liquids,

solids, corrosives, flammable, oxidizers and

Direction Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

poisons.

The EPA requested Chemco owner, Ken Halbert, to hire a qualified h azardous waste cleanup contractor to performed clean-up and disposal of the hazardous chemicals found on the site. He was given until June 21, 1996, to comply. When he failed EPA initiated an emergency removal.

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KDHE again referred the site in August, 2006 to EPA for a time-critical removal action. The removal action was completed in 2007, and the site needs a post-removal site assessment.

Site ID: 1244 Has Env Use Control: No

Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet 0-10 feet Depth To Bedrock: Aguifer Yield: 0-10 gpm **GW Flow Direction:** Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Not reported Waste Present: Product: Not reported Receptor Act: Not reported Receptor Pot: Not reported Remed Air: Not reported Off-Site Disposal Remed Soil: Remed Water: Not reported Not reported Remedir:

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Removal Action - Emergency Response

Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 12/15/2006

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of

hazardous chemicals.

From November 27-29, 1995, the EPA and the contracted TAT (Ecology and Environmental, Inc.) to prepare an inventory of all the chemical containers that were part of the Chemco operation at the site. A total of 2,454 containers were identified, ranging from 1 ounce to 55 gallons in size, and with only 7 % of them characterized as

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MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEMCO INDUSTRIES (Continued)

1000996441

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the site needs a post-removal site assessment.

Site ID: 1244 Has Env Use Control: No

C408971656 Project code: PM Name: BROWN, R. Site Status: Active District Office: **NEDO**

Lat/Long: 38.94971 / -95.67674 KS - Lower Republican River Basin:

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported KS0001118850 CERCLIS ID: Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC Contaminants:

Media Act: Not reported Media Pot: Not reported

Other (see Site Narrative) Source: Land Use: Commercial, Industrial

Private well: Not reported Not reported Waste Present: Product: Not reported Not reported Receptor Act: Not reported Receptor Pot: Remed Air: Not reported Remed Soil: Off-Site Disposal Remed Water: Not reported Remedir: Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Transfer Within Bureau

Activity Status: Completed Activity Start Date: Not reported Activity End Date: 07/01/2010

Narrative: On June 1995, KDHErequested EPA assistance to determine whether Map ID Direction Distance Elevation MAP FINDINGS

Site EDR ID Number

Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

conditions at Chemco facility, located at Forbes Fiel, posed a threat and potential for CERCLA response due to the illegal storage of hazardous chemicals.

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Project code: C408971656
PM Name: BROWN, R.
Site Status: Active
District Office: NEDO

Lat/Long: 38.94971 / -95.67674
River Basin: KS - Lower Republican

Aquifer Yield: Unknown
Other Aquifers: Not reported

Direction Distance Elevation

on Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Parent PC: Not reported Parent Name: Not reported KS0001118850 CERCLIS ID: Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm GW Flow Direction: Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Program: Site Assessment Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Media Act: Not reported Media Pot: Not reported

Source: Other (see Site Narrative)
Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Not reported Product: Receptor Act: Not reported Not reported Receptor Pot: Remed Air: Not reported Off-Site Disposal Remed Soil: Not reported Remed Water: Remedir: Not reported

Alias: BIO-SURE: CHALLENGER PRODUCTS CORPORATION: HALBERT, KEN: KEN HALBERT

Eucan Number: Not reported
Date: Not reported
Activity Type: Integrated PA/SSI

Activity Status: Proposed
Activity Start Date: Not reported
Activity End Date: Not reported

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Direction Distance Elevation

Site Database(s) **EPA ID Number**

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

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Site ID: 1244 Has Env Use Control: Nο

Project code: C408971656 PM Name: BROWN, R. Site Status: Active NEDO District Office:

Lat/Long: 38.94971 / -95.67674 River Basin: KS - Lower Republican

Aquifer Yield: Unknown Other Aquifers: Not reported Parent PC: Not reported Parent Name: Not reported CERCLIS ID: KS0001118850 Discovery Date: 11/29/1990 Depth To GW: 0-10 feet Depth To Bedrock: 0-10 feet Aquifer Yield: 0-10 gpm **GW Flow Direction:** Not reported Acres Affected: Not reported

Waste Present: No Product Present: No

Site Assessment Program: Lead Agency: BER - Remedial

Contaminants: Chlorides, Heavy Metal, Inorganic, Nitrates, SVOC, VOC

Not reported Media Act: Media Pot: Not reported

Source: Other (see Site Narrative) Land Use: Commercial, Industrial

Private well: Not reported Waste Present: Not reported Not reported Product: Not reported Receptor Act:

Distance Elevation

Site Database(s) EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

EDR ID Number

Receptor Pot:
Remed Air:
Remed Soil:
Remed Water:
Remedir:
Not reported
Not reported
Not reported
Not reported
Not reported

Alias: BIO-SURE; CHALLENGER PRODUCTS CORPORATION; HALBERT, KEN; KEN HALBERT

Eucan Number: Not reported Date: Not reported

Activity Type: Preliminary Assessment (PA)

Activity Status: Proposed
Activity Start Date: Not reported
Activity End Date: Not reported

Narrative: On June 1995, KDHErequested EPA assistance to determine whether

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Map ID		MAP FINDINGS		
Direction				
Distance				EDR ID Number
Elevation	Site		Database(s)	EPA ID Number

CHEMCO INDUSTRIES (Continued)

1000996441

tical removal action. The removal action was completed in 2007, and the site needs a post-removal site assessment.

Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TOPEKA	1000163243	FORBES FIELD - ANG	FORBES FIELD	66619	CERCLIS
TOPEKA	1000203240	TOPEKA METAL SPECIALTIES INC	5600 S TOPEKA BLVD	66619	RCRA-SQG
TOPEKA	1000689687	FANNIN FABRICATION CO INC	FORBES FIELD BLDG S109	66619	RCRA-SQG,FINDS
TOPEKA	1000689715	PT'S COFFEE CO	FORBES FIELD BLDG 2704 STE A2	66619	FINDS,RCRA-NLR
TOPEKA	1001127208	HASS	2304 FORBES IND PARK BLDG E	66619	FINDS,RCRA-CESQG
TOPEKA	1004502629	TRANSCISCO RAIL SVC CO	FORBES IND PARK 5 NORTH & E ST	66619	FINDS,RCRA-NLR
TOPEKA	1004702426	TOPEKA WASTE SYS	FORBES FIELD BLDG 2704	66619	FINDS,RCRA-NLR
TOPEKA	1004702600	TOPEKA RAILWAY EQUIPMENT INC	FORBES FIELD BLDG 332	66619	FINDS,RCRA-NLR
TOPEKA	1004703460	AGED AUTO	FORBES FLD BLDG 182	66619	FINDS,RCRA-CESQG,MANIFEST
TOPEKA	1004704197	METROPOLITAN TOPEKA AIRPORT AUTH	FORBES FIELD, BLDG. #186	66619	FINDS,RCRA-CESQG
TOPEKA	1004704648	SERVICEMASTER	FORBES FIELD BLDG 818N-4	66619	FINDS,RCRA-NLR
TOPEKA	1004705272	M D CHEMICAL & TESTING INC	FORBES FIELD BLDG 281	66619	FINDS,RCRA-NLR
TOPEKA	1004705576	KDAG LAB	FORBES FIELD BLDG 282	66619	FINDS,RCRA-CESQG
TOPEKA	1006807693	KGS ODORANT STA FORBES FIELD	FORBES FIELD	66609	FINDS,RCRA-NLR
TOPEKA	2008915537	IN GAGE PARK (GAGE BLVD)	IN GAGE PARK (GAGE BLVD)		ERNS
TOPEKA	2009915537	IN GAGE PARK (GAGE BLVD)	IN GAGE PARK (GAGE BLVD)		ERNS
TOPEKA	A100145439	MTAA FACILITY #132	TOPEKA AIR INDUSTRIAL PARK	66619	AST
TOPEKA	A100202746	KS AIR NAT'L GUARD 190TH ARW/E	FORBES - SOUTH OF BLDG 775	66619	AST
TOPEKA	A100271042	FOE ATCT	BLDG 969, FORBES FIELD, 6700 S	66619	AST
TOPEKA	A100356238	ARMED FORCES RESERVE CTR	BLDG 688 FORBES FIELD	66619	AST

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: 06/30/2011 Source: EPA
Date Data Arrived at EDR: 07/12/2011 Telephone: N/A

Number of Days to Update: 79 Next Scheduled EDR Contact: 01/23/2012
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 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: 06/30/2011 Source: EPA
Date Data Arrived at EDR: 07/12/2011 Telephone: N/A

Number of Days to Update: 79 Next Scheduled EDR Contact: 01/23/2012
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.

Source: EPA

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

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: 06/30/2011 Date Data Arrived at EDR: 07/12/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 79

Source: EPA Telephone: N/A

Last EDR Contact: 10/12/2011

Next Scheduled EDR Contact: 01/23/2012 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/25/2011 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 11/29/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Quarterly

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: 12/10/2010 Date Data Arrived at EDR: 01/11/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 10/14/2011

Next Scheduled EDR Contact: 01/23/2012 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 02/25/2011 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 11/29/2011

Next Scheduled EDR Contact: 03/12/2012 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: 03/09/2011 Date Data Arrived at EDR: 03/15/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 91

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 11/14/2011

Next Scheduled EDR Contact: 02/27/2012 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: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 10/05/2011

Next Scheduled EDR Contact: 01/16/2012 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: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 10/05/2011

Next Scheduled EDR Contact: 01/16/2012 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: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 10/05/2011

Next Scheduled EDR Contact: 01/16/2012 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: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 10/05/2011

Next Scheduled EDR Contact: 01/16/2012 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 03/16/2011 Date Data Arrived at EDR: 03/25/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 81

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 12/09/2011

Next Scheduled EDR Contact: 03/26/2012 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: 03/16/2011 Date Data Arrived at EDR: 03/25/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 81

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 12/09/2011

Next Scheduled EDR Contact: 03/26/2012 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: 10/03/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 10/04/2011

Next Scheduled EDR Contact: 01/16/2012 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Identified Sites List

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: 10/31/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 37

Source: Department of Health and Environment

Telephone: 785-296-1660 Last EDR Contact: 10/17/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Semi-Annually

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

SWF/LF: Directory of Sanitary Landfills, Solid Waste Transfer Stations and Collector in Kansas 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: 11/01/2011 Date Data Arrived at EDR: 11/03/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 35

Source: Department of Health and Environment

Telephone: 785-296-1590 Last EDR Contact: 10/24/2011

Next Scheduled EDR Contact: 02/06/2012 Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Data

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: 10/31/2011 Date Data Arrived at EDR: 11/02/2011 Date Made Active in Reports: 12/13/2011

Number of Days to Update: 41

Source: Department of Health and Environment

Telephone: 785-296-1685 Last EDR Contact: 10/11/2011

Next Scheduled EDR Contact: 01/23/2012 Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks
Leaking aboveground storage tank site locations.

Date of Government Version: 10/31/2011 Date Data Arrived at EDR: 11/02/2011 Date Made Active in Reports: 12/13/2011

Number of Days to Update: 41

Source: Department of Health & Environment

Telephone: 785-296-1685 Last EDR Contact: 10/11/2011

Next Scheduled EDR Contact: 01/23/2012 Data Release Frequency: Quarterly

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: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/16/2011 Date Data Arrived at EDR: 06/02/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 103

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

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

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

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: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 11/01/2011

Next Scheduled EDR Contact: 02/13/2012 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: 11/02/2011 Date Data Arrived at EDR: 11/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 7

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 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: 01/31/2011 Date Data Arrived at EDR: 02/01/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 48

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Quarterly

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

Date of Government Version: 08/11/2011 Date Data Arrived at EDR: 08/12/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 32

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Data

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: 10/31/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 37

Source: Department of Health and Environment

Telephone: 785-296-1685 Last EDR Contact: 10/11/2011

Next Scheduled EDR Contact: 01/23/2012 Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Data Registered Aboveground Storage Tanks.

Date of Government Version: 10/31/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 37

Source: Department of Health and Environment

Telephone: 785-296-1685 Last EDR Contact: 10/11/2011

Next Scheduled EDR Contact: 01/23/2012 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: 07/01/2011 Date Data Arrived at EDR: 08/26/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 18

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

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: 10/01/2011
Date Data Arrived at EDR: 11/01/2011
Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 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: 11/02/2011 Date Data Arrived at EDR: 11/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 7

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Quarterly

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: 04/01/2011 Date Data Arrived at EDR: 06/01/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 13

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

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: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Quarterly

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: 08/04/2011 Date Data Arrived at EDR: 08/05/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 39

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Quarterly

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: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Semi-Annually

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: 08/11/2011 Date Data Arrived at EDR: 08/12/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 32

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Semi-Annually

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: 10/17/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Institutional Controls Information

Sites that have institutional control information entered into the Identified Sites List database.

Date of Government Version: 10/31/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 37

Source: Department of Health & Environment

Telephone: 785-296-8049 Last EDR Contact: 10/17/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

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: 08/04/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 10/04/2011

Next Scheduled EDR Contact: 01/16/2012 Data Release Frequency: Varies

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

VCP: Identified Sites List

Sites included in the Identified Sites List that are identified as Voluntary Cleanup sites.

Date of Government Version: 10/31/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 37

Source: Department of Health & Environment

Telephone: 785-296-8049 Last EDR Contact: 10/17/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Identified Sites List

Sites included in the Identified Sites List that are identified as Brownfields sites.

Date of Government Version: 10/31/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 37

Source: Department of Health & Environment

Telephone: 785-296-8049 Last EDR Contact: 10/17/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/27/2011 Date Data Arrived at EDR: 06/27/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 12/21/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: No Update Planned

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: 11/07/2011

Next Scheduled EDR Contact: 02/20/2012 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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: 06/08/2011 Date Data Arrived at EDR: 09/16/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 13

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 12/05/2011

Next Scheduled EDR Contact: 03/19/2012 Data Release Frequency: Quarterly

AOCONCERN: Area of Concern

The City of Wichita has taken the lead for the investigation and remediation efforts with the Kansas Department of Health & Environment, Bureau of Remediation. The primary contaminates of concern are chlorinated solvents and

their degradation products.

Date of Government Version: N/A
Date Data Arrived at EDR: 04/25/2002
Date Made Active in Reports: 06/28/2002

Number of Days to Update: 64

Source: Department of Environmental Health

Telephone: 315-268-8351 Last EDR Contact: 03/13/2007 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CDL: Clandestine Laboratory Data Clandestine meth lab location

Date of Government Version: 09/29/2009 Date Data Arrived at EDR: 10/02/2009 Date Made Active in Reports: 10/20/2009

Number of Days to Update: 18

Source: Department of Health and Environment

Telephone: 785-368-7301 Last EDR Contact: 11/17/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

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: 09/09/2011 Date Data Arrived at EDR: 09/16/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

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: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/22/2011

Next Scheduled EDR Contact: 03/05/2012 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: 10/04/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 10/04/2011

Next Scheduled EDR Contact: 01/16/2012 Data Release Frequency: Annually

SPILLS: Kansas Spills Database

All spills reported under the regulatory authority of the Department of Health & Environment and the Kansas Corporation Commission.

Date of Government Version: 10/18/2011 Date Data Arrived at EDR: 11/04/2011 Date Made Active in Reports: 12/13/2011

Number of Days to Update: 39

Source: Department of Health and Environment

Telephone: 785-296-1660 Last EDR Contact: 10/17/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 10/05/2011

Next Scheduled EDR Contact: 01/16/2012 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/29/2011 Date Data Arrived at EDR: 08/09/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 11/08/2011

Next Scheduled EDR Contact: 02/20/2012

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: 10/20/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Semi-Annually

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: 12/31/2009 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 12/09/2011

Next Scheduled EDR Contact: 03/26/2012 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: 06/01/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 41

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Varies

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: 07/31/2011 Date Data Arrived at EDR: 09/14/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 15

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 12/14/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Annually

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: 10/21/2010 Date Made Active in Reports: 01/28/2011

Number of Days to Update: 99

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/29/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Varies

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: 08/18/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 12/07/2011

Next Scheduled EDR Contact: 03/19/2012 Data Release Frequency: Semi-Annually

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: 12/31/2009 Date Data Arrived at EDR: 12/17/2010 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 94

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 12/02/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Annually

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

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Every 4 Years

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: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 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: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 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

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: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 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: 01/07/2011 Date Data Arrived at EDR: 01/21/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 59

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 12/21/2011

Next Scheduled EDR Contact: 04/09/2012 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: 11/01/2010 Date Data Arrived at EDR: 11/10/2010 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 98

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 10/19/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Annually

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: 06/21/2011 Date Data Arrived at EDR: 07/15/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 60

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 12/12/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Quarterly

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: 01/11/2011 Date Data Arrived at EDR: 01/13/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 34

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 10/13/2011

Next Scheduled EDR Contact: 01/23/2012 Data Release Frequency: Quarterly

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: 04/14/2010 Date Data Arrived at EDR: 04/16/2010 Date Made Active in Reports: 05/27/2010

Number of Days to Update: 41

Source: EPA Telephone: (913) 551-7003 Last EDR Contact: 12/13/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Quarterly

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

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: 12/31/2009 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 11/30/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Biennially

UIC: Underground Injection Wells Database Listing A listing of underground injection wells.

Date of Government Version: 08/01/2011 Date Data Arrived at EDR: 08/02/2011 Date Made Active in Reports: 08/22/2011

Number of Days to Update: 20

Source: Department of Health & Environment

Telephone: 785-296-1367 Last EDR Contact: 11/14/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

DRYCLEANERS: Registered Drycleaning Facilities

A listing of registered drycleaners.

Date of Government Version: 09/07/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 10/04/2011

Number of Days to Update: 26

Source: Department of Health & Environment

Telephone: 785-291-3250 Last EDR Contact: 12/05/2011

Next Scheduled EDR Contact: 03/19/2012 Data Release Frequency: Varies

AIRS: Title V Source Information

A listing of title V sources, including emissions information.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/01/2010 Date Made Active in Reports: 12/21/2010

Number of Days to Update: 20

Source: Department of Health & Environment

Telephone: 785-296-6427 Last EDR Contact: 11/08/2011

Next Scheduled EDR Contact: 01/16/2012 Data Release Frequency: Annually

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 01/04/2011 Date Made Active in Reports: 02/09/2011

Number of Days to Update: 36

Source: Department of Health & Environment

Telephone: 785-296-1688 Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Annually

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: 10/20/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Semi-Annually

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: 10/24/2011

Next Scheduled EDR Contact: 02/06/2012 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: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 12/08/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Varies

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: 10/20/2011

Next Scheduled EDR Contact: 01/30/2012

Data Release Frequency: N/A

FINANCIAL ASSURANCE: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank 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: 10/31/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 12/08/2011

Number of Days to Update: 37

Source: Department of Health & Environment

Telephone: 785-296-1685 Last EDR Contact: 10/11/2011

Next Scheduled EDR Contact: 01/23/2012 Data Release Frequency: Quarterly

COAL ASH DOE: Sleam-Electric Plan 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: 12/08/2011

Next Scheduled EDR Contact: 01/30/2012 Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing A listing of coal combustion waste landfills.

> Date of Government Version: 01/20/2009 Date Data Arrived at EDR: 06/26/2009 Date Made Active in Reports: 07/08/2009

Number of Days to Update: 12

Source: Department of Health & Environment

Telephone: 785-296-1600 Last EDR Contact: 10/24/2011

Next Scheduled EDR Contact: 02/06/2012 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: 01/01/2008 Date Data Arrived at EDR: 02/18/2009 Date Made Active in Reports: 05/29/2009

Number of Days to Update: 100

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 11/04/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: 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

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: 11/21/2011 Date Data Arrived at EDR: 11/22/2011 Date Made Active in Reports: 12/22/2011

Number of Days to Update: 30

Source: Department of Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 11/22/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: Annually

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: 11/01/2011 Date Data Arrived at EDR: 11/08/2011 Date Made Active in Reports: 12/22/2011

Number of Days to Update: 44

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 11/08/2011

Next Scheduled EDR Contact: 02/20/2012 Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 06/24/2011 Date Made Active in Reports: 06/30/2011

Number of Days to Update: 6

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/15/2011

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/19/2011

Next Scheduled EDR Contact: 04/02/2012 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data Source: Rextag Strategies Corp. Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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.

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 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HARLAN INDUSTRIAL PARK NW CORNER OF UNIVERSITY DR. & TOPEKA BLVD TOPEKA, KS 66619

TARGET PROPERTY COORDINATES

Latitude (North): 38.95480 - 38° 57' 17.3" Longitude (West): 95.6933 - 95° 41' 35.9"

Universal Tranverse Mercator: Zone 15 UTM X (Meters): 266610.0 UTM Y (Meters): 4315003.0

Elevation: 1003 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38095-H6 WAKARUSA, KS

Most Recent Revision: 1983

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 principle 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.

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).

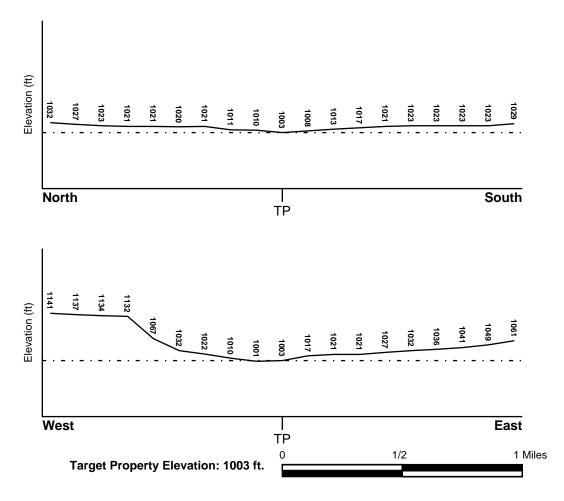
TOPOGRAPHIC INFORMATION

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 WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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.

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

FEMA Flood
Target Property County Electronic Data

SHAWNEE, KS YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 2003310175C - FEMA Q3 Flood data

Additional Panels in search area: 2003310125C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property

NWI Quad at Target Property

Data Coverage

WAKARUSA 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.

LOCATION GENERAL DIRECTION
MAP ID FROM TP GROUNDWATER FLOW

Not Reported

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

GEOLOGIC AGE IDENTIFICATION

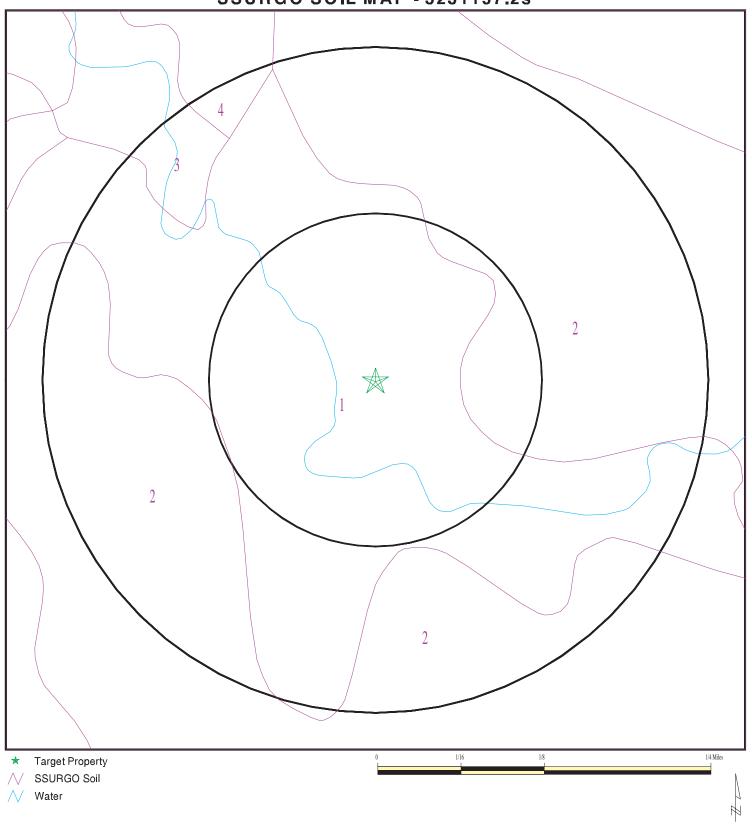
Era: Paleozoic Category: Stratifed Sequence

System: Pennsylvanian Series: Virgilian Series

Code: PP4 (decoded above as Era, System & Series)

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 - 3231157.2s



SITE NAME: Harlan Industrial Park ADDRESS: Nw Corner of Universit

Nw Corner of University Dr. & Topeka Blvd

Topeka KS 66619 38.9548 / 95.6933 LAT/LONG:

CLIENT: Terracon, Inc. CONTACT: Kendra Caspers INQUIRY#: 3231157.2s

DATE: December 28, 2011 12:40 pm

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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: Martin

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

	Soil Layer Information								
	Вои	ındary		Classi	fication	Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
1	0 inches	9 inches	silty clay loam	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: 1.411 Min: 0.4233	Max: 7.8 Min: 5.6		
2	9 inches	14 inches	silty clay loam	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: 1.411 Min: 0.4233	Max: 7.8 Min: 5.6		
3	48 inches	59 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: 1.411 Min: 0.4233	Max: 7.8 Min: 5.6		
4	14 inches	37 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: 1.411 Min: 0.4233	Max: 7.8 Min: 5.6		

	Soil Layer Information							
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity	Soil Reaction (pH)	
5	37 inches	48 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: 1.411 Min: 0.4233	Max: 7.8 Min: 5.6	

Soil Map ID: 2

Soil Component Name: Ladysmith

Soil Surface Texture: 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: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

	Soil Layer Information							
	Воц	ındary		Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	9 inches	silty clay loam	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: 4.233 Min: 0.01	Max: 8.4 Min: 7.4	
2	9 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: 4.233 Min: 0.01	Max: 8.4 Min: 7.4	

	Soil Layer Information								
	Bou	ındary		Classi	fication	Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
3	31 inches	48 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: 4.233 Min: 0.01	Max: 8.4 Min: 7.4		
4	48 inches	59 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: 4.233 Min: 0.01	Max: 8.4 Min: 7.4		

Soil Map ID: 3

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: > 107 inches

Soil Layer Information								
	Boundary		Boundary Clas		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)	
1	0 inches	48 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: 14.11 Min: 4.233	Max: 7.3 Min: 6.1	

	Soil Layer Information							
	Boundary			Classif	ication	ion Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)	
2	48 inches	79 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: 14.11 Min: 4.233	Max: 7.3 Min: 6.1	

Soil Map ID: 4

Soil Component Name: Labette

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 97 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	Information			
	Воц	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	9 inches	12 inches	silty clay loam	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: 1.411 Min: 0.4233	Max: 8.4 Min: 5.6
2	34 inches	38 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: 1.411 Min: 0.4233	Max: 8.4 Min: 5.6

	Soil Layer Information							
	Boundary			Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
3	38 inches	42 inches	unweathered bedrock	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: 1.411 Min: 0.4233	Max: 8.4 Min: 5.6	
4	0 inches	9 inches	silty clay loam	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: 1.411 Min: 0.4233	Max: 8.4 Min: 5.6	
5	12 inches	34 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: 1.411 Min: 0.4233	Max: 8.4 Min: 5.6	

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 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID LOCATION FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

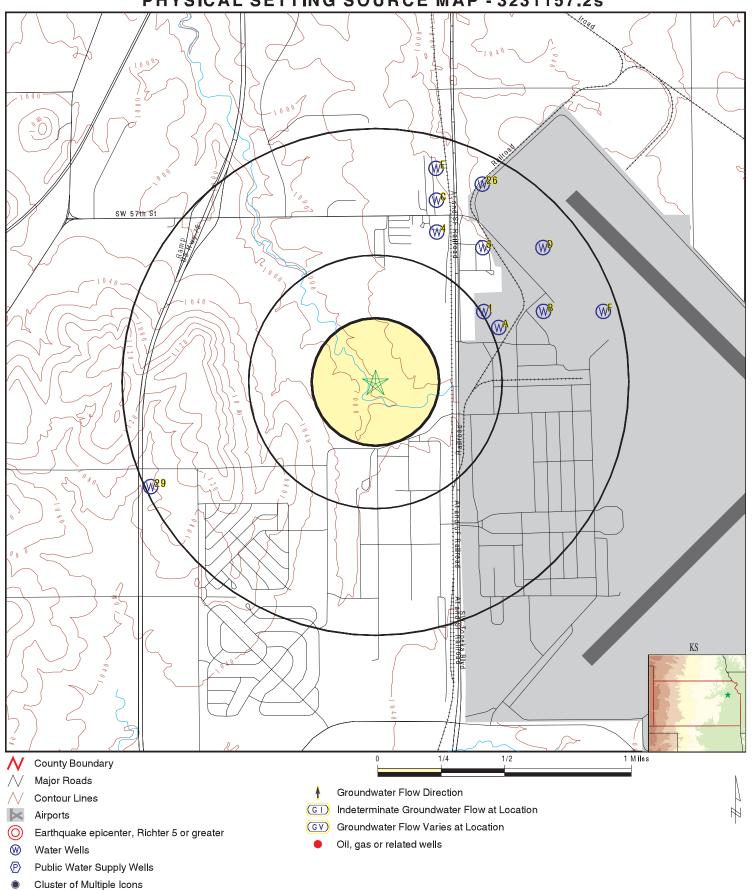
No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
1	KS6000000167918	1/2 - 1 Mile ENE
A2	KS600000167858	1/2 - 1 Mile ENE
A3	KS600000167859	1/2 - 1 Mile ENE
4	KS600000168120	1/2 - 1 Mile NNE
5	KS600000168090	1/2 - 1 Mile NE
B6	KS600000167924	1/2 - 1 Mile ENE
B7	KS600000167925	1/2 - 1 Mile ENE
C8	KS600000168183	1/2 - 1 Mile NNE
C9	KS600000168184	1/2 - 1 Mile NNE
C10	KS600000168181	1/2 - 1 Mile NNE
C11	KS600000168182	1/2 - 1 Mile NNE
C12	KS600000168185	1/2 - 1 Mile NNE
C13	KS600000168188	1/2 - 1 Mile NNE
C14	KS600000168189	1/2 - 1 Mile NNE
C15	KS600000168186	1/2 - 1 Mile NNE
C16	KS600000168187	1/2 - 1 Mile NNE
D17	KS600000168094	1/2 - 1 Mile NE
D18	KS600000168093	1/2 - 1 Mile NE
D19	KS600000168096	1/2 - 1 Mile NE
D20	KS6000000168095	1/2 - 1 Mile NE
E21	KS600000168295	1/2 - 1 Mile NNE
E22	KS600000168294	1/2 - 1 Mile NNE
E23	KS600000168296	1/2 - 1 Mile NNE
E24	KS600000168298	1/2 - 1 Mile NNE
E25	KS600000168297	1/2 - 1 Mile NNE
26	KS600000168230	1/2 - 1 Mile NNE
F27	KS6000000167922	1/2 - 1 Mile ENE
F28	KS6000000167923	1/2 - 1 Mile ENE
29	KS600000167311	1/2 - 1 Mile WSW

PHYSICAL SETTING SOURCE MAP - 3231157.2s



SITE NAME: Harlan Industrial Park

ADDRESS: Nw Corner of University Dr. & Topeka Blvd

Topeka KS 66619 LAT/LONG: 38.9548 / 95.6933 CLIENT: Terracon, Inc.
CONTACT: Kendra Caspers
INQUIRY #: 3231157.2s

DATE: December 28, 2011 12:40 pm

Map ID Direction Distance Elevation

Database EDR ID Number

KS WELLS KS6000000167918 **ENE** 1/2 - 1 Mile

Higher

Well id: 79797 County: Shawnee Township: Twn dir: S 12 Range: Range dir: Ε 16 SW SW Section: 31 Spot: Longitude: -95.6851 Latitude: 38.95882 Long lat t: From PLSS Owner: US Air Force

Well use: Monitoring well/observation/piezometer

Comple dat: 27-Dec-1984

CONSTRUCTED Other id: DW 6 Status:

Dwr number: Not Reported Directions: Not Reported

Not Reported Well depth: 50 Elev: Static dep: 12.76 Est yield: Not Reported

Driller: Terracon, Inc.

ENE **KS WELLS** KS6000000167858

1/2 - 1 Mile Higher

> Well id: 79799 County: Shawnee Twn dir: Township: 12 S Range: 16 Range dir: Ε

SE SW SW Section: 31 Spot: -95.684 38.95791 Longitude: Latitude:

From PLSS Kansas Air National Guard Long lat t: Owner:

Well use: Monitoring well/observation/piezometer

Comple dat: 01-Nov-1988

CONSTRUCTED Other id: MW 28 Status:

Dwr number: Not Reported Forbes Field Air National Guard Base, off Hwy 75 Directions:

Well depth: 15 Elev: 1037.

Static dep: 6.15 Est yield: Not Reported

Driller: Layne-Christensen Co.

ENE 1/2 - 1 Mile Higher

> Well id: 79800 County: Shawnee S Township: 12 Twn dir: Ε Range: 16 Range dir:

SE SW SW Section: 31 Spot: Longitude: -95.684 Latitude: 38.95791

Long lat t: From PLSS Owner: Kansas Air National Guard

Monitoring well/observation/piezometer Well use: 09-Apr-1990

Comple dat:

PLUGGED Status: Other id: MW 28

Dwr number: Not Reported

Forbes Field Air National Guard, base of Hwy 75 Directions:

1037 Well depth: 15 Elev:

KS WELLS

KS6000000167859

Not Reported Static dep: 6.15 Est yield:

Driller: Layne-Christensen Co.

NNE **KS WELLS** KS6000000168120

1/2 - 1 Mile Higher

> Well id: 369409 County: Shawnee Township: 12 Twn dir: S Range: 15 Range dir: Е Section: 36 Spot: NE NE SE -95.68854 Longitude: Latitude: 38.96337

From PLSS Owner: Pauline Farmers Coop Long lat t:

Well use: Monitoring well/observation/piezometer

Comple dat: 20-Feb-1998

CONSTRUCTED Other id: well 3 Status:

Not Reported Dwr number:

416 SW 57th, Topeka Directions:

Well depth: 13.5 Elev: Not Reported Static dep: 6.7 Est yield: Not Reported

Driller: JB Environmental Drilling

KS6000000168090 **KS WELLS**

1/2 - 1 Mile Higher

Dwr number:

Well id: 79787 County: Shawnee Township: 12 Twn dir: S Е 16 Range dir: Range: 31 Spot: NW SW Section: Longitude: -95.68517 Latitude: 38.96247 Long lat t: From PLSS Owner: US Air Force

Monitoring well/observation/piezometer Well use:

Comple dat: 28-Dec-1984

CONSTRUCTED SW 6 Status: Other id:

Not Reported Directions: Not Reported

Not Reported Well depth: 11.9 Elev: Static dep: 10.07 Est yield: Not Reported

Driller: Terracon, Inc.

B6 KS6000000167924

1/2 - 1 Mile Higher

ENE

79796 Well id: County: Shawnee Township: 12 Twn dir: S Range: 16 Range dir: Ε Section: 31 Spot: SE SW Longitude: Latitude: 38.95883 -95.68073 From PLSS Long lat t: **US Air Force** Owner:

Well use: Monitoring well/observation/piezometer

Comple dat: 28-Dec-1984

CONSTRUCTED Other id: **SW 1** Status:

Dwr number: Not Reported Directions: Not Reported

Well depth: Elev: 10 Not Reported

Static dep: 7.8 Est yield: Not Reported

Driller: Terracon, Inc.

ENE KS WELLS KS600000167925

1/2 - 1 Mile Higher

> 79798 Well id: County: Shawnee Township: 12 Twn dir: S Range: 16 Range dir: Е Section: 31 Spot: SE SW 38.95883 Longitude: -95.68073 Latitude: From PLSS Owner: US Air Force Long lat t:

Well use: Monitoring well/observation/piezometer

Comple dat: 27-Dec-1984

Status: CONSTRUCTED Other id: DW 5

Dwr number: Not Reported

Directions: Not Reported

Well depth:60Elev:Not ReportedStatic dep:6.68Est yield:Not Reported

Driller: Terracon, Inc.

CO

NNE 1/2 - 1 Mile Higher

igher

Well id:369401County:ShawneeTownship:12Twn dir:SRange:15Range dir:ESoction:36Spectrum:SE SE NI

 Section:
 36
 Spot:
 SE SE NE

 Longitude:
 -95.68857
 Latitude:
 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 19-Feb-1998

Status: CONSTRUCTED Other id: well 8
Dwr number: Not Reported

Dwr number: Not Reported Directions: 416 SW 57th, Topeka

Well depth: 10.5 Elev: Not Reported Static dep: 5.27 Est yield: Not Reported

Driller: JB Environmental Drilling

C9 NNE 1/2 - 1 Mile Higher

Well id: 369402 County: Shawnee Township: 12 Twn dir: S Range: 15 Range dir: Ε Section: 36 Spot: SE SE NE

Longitude: -95.68857 Latitude: 38.96519
Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 18-Feb-1998

Status: CONSTRUCTED Other id: well 7

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth: 13.6 Elev: Not Reported

TC3231157.2s Page A-15

KS6000000168183

KS6000000168184

KS WELLS

Static dep: 11.08 Est yield: Not Reported

Driller: JB Environmental Drilling

1/2 - 1 Mile Higher

> Well id: 369383 Shawnee County: Township: 12 Twn dir: S Range: 15 Range dir: Е Section: 36 Spot: SE SE NE Longitude: -95.68857 Latitude: 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 20-Feb-1998

Status: CONSTRUCTED Other id: well 10

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth:11Elev:Not ReportedStatic dep:5.05Est yield:Not Reported

Driller: JB Environmental Drilling

C11

1/2 - 1 Mile Higher

 Well id:
 369400
 County:
 Shawnee

 Township:
 12
 Twn dir:
 S

 Range:
 15
 Range dir:
 E

 Section:
 36
 Spot:
 SE SE NE

 Longitude:
 -95.68857
 Latitude:
 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 19-Feb-1998

Status: CONSTRUCTED Other id: Not Reported

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth: 10.5 Elev: Not Reported Static dep: 4.23 Est yield: Not Reported

Driller: JB Environmental Drilling

C12 NNE 1/2 - 1 Mile Higher

> 369403 Well id: County: Shawnee Township: 12 Twn dir: S Range: 15 Range dir: Ε Section: 36 Spot: SE SE NE Latitude: Longitude: -95.68857 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 18-Feb-1998

Status: CONSTRUCTED Other id: well 6

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth: 13 Elev: Not Reported

TC3231157.2s Page A-16

KS6000000168182

KS6000000168185

KS WELLS

Static dep: 9.74 Est yield: Not Reported

Driller: JB Environmental Drilling

C13
NNE
KS WELLS
KS6000000168188

1/2 - 1 Mile Higher

> Well id: 369407 Shawnee County: Township: 12 Twn dir: S Range: 15 Range dir: Е Section: 36 Spot: SE SE NE Longitude: -95.68857 Latitude: 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 18-Feb-1998

Status: CONSTRUCTED Other id: well 2

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth:14Elev:Not ReportedStatic dep:12.3Est yield:Not Reported

Driller: JB Environmental Drilling

NNE 1/2 - 1 Mile Higher

Well id:369408County:ShawneeTownship:12Twn dir:SRange:15Range dir:E

 Range:
 15
 Range dir:
 E

 Section:
 36
 Spot:
 SE SE NE

 Longitude:
 -95.68857
 Latitude:
 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 18-Feb-1998

Status: CONSTRUCTED Other id: Not Reported

Dwr number: Not Reported Directions: 416 SW 57th, Topeka

Well depth: 13.6 Elev: Not Reported Static dep: 5 Est yield: Not Reported

Driller: JB Environmental Drilling

C15 NNE 1/2 - 1 Mile Higher

> 369404 Well id: County: Shawnee Township: 12 Twn dir: S Range: 15 Range dir: Ε Section: 36 Spot: SE SE NE -95.68857 Latitude: Longitude: 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 19-Feb-1998

Status: CONSTRUCTED Other id: well 5

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth: 12.5 Elev: Not Reported

TC3231157.2s Page A-17

KS6000000168189

KS6000000168186

KS WELLS

Static dep: 4.91 Est yield: Not Reported

Driller: JB Environmental Drilling

C16
NNE
KS WELLS
KS6000000168187

1/2 - 1 Mile Higher

> 369405 Well id: County: Shawnee Twn dir: Township: 12 S Range: 15 Range dir: Е Section: 36 Spot: SE SE NE -95.68857 Longitude: Latitude: 38.96519

Long lat t: From PLSS Owner: Pauline Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 18-Feb-1998

Status: CONSTRUCTED Other id: well 4

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth:12.6Elev:Not ReportedStatic dep:5.7Est yield:Not Reported

Driller: JB Environmental Drilling

D17
NE
KS WELLS
KS600000168094

1/2 - 1 Mile Higher

> Well id: 79791 County: Shawnee Township: 12 Twn dir: S Е 16 Range dir: Range: 31 Spot: **NE SW** Section: Longitude: -95.68077 Latitude: 38.96248 Long lat t: From PLSS Owner: US Air Force

Well use: Monitoring well/observation/piezometer

Not Reported

Comple dat: 28-Dec-1984

Status: CONSTRUCTED Other id: SW 4

Directions: Not Reported

Well depth: 11 Elev: Not Reported Static dep: 9.78 Est yield: Not Reported

Driller: Terracon, Inc.

D18

NE 1/2 - 1 Mile Higher

Dwr number:

79789 Well id: County: Shawnee Township: 12 Twn dir: S Range: 16 Range dir: Ε NE SW Section: 31 Spot: Longitude: -95.68077 Latitude: 38.96248 From PLSS Long lat t: **US Air Force** Owner:

Well use: Monitoring well/observation/piezometer

Comple dat: 28-Dec-1984

Status: CONSTRUCTED Other id: SW 5

Dwr number: Not Reported Directions: Not Reported

Well depth: 7.7 Elev: Not Reported

TC3231157.2s Page A-18

KS WELLS

KS6000000168093

4.36 Not Reported Static dep: Est yield:

Driller: Terracon, Inc.

D19 **KS WELLS** KS6000000168096 NE

1/2 - 1 Mile Higher

> 79795 Well id: County: Shawnee Township: 12 Twn dir: S Range: 16 Range dir: Е Section: 31 Spot: NE SW 38.96248 Longitude: -95.68077 Latitude: From PLSS Owner: US Air Force Long lat t:

Well use: Monitoring well/observation/piezometer

Comple dat: 28-Dec-1984

CONSTRUCTED Other id: SW₂ Status:

Not Reported Dwr number:

Directions: Not Reported

Well depth: 8.5 Elev: Not Reported Static dep: 2.62 Est yield: Not Reported

Driller: Terracon, Inc.

D20 KS600000168095 **KS WELLS**

1/2 - 1 Mile Higher

Dwr number:

Well id: 79793 County: Shawnee Township: 12 Twn dir: S Е 16 Range dir: Range: 31 Spot: **NE SW** Section: Longitude: -95.68077 Latitude: 38.96248 Long lat t: From PLSS Owner: US Air Force

Monitoring well/observation/piezometer Well use:

Comple dat: 28-Dec-1984

CONSTRUCTED SW₃ Status: Other id:

Not Reported Directions: Not Reported

Not Reported Well depth: 16.5 Elev: Static dep: 7.05 Est yield: Not Reported

Driller: Terracon, Inc.

E21 NNE KS6000000168295 **KS WELLS**

1/2 - 1 Mile Higher

> Well id: 306010 County: Shawnee Township: 12 Twn dir: S Range: 15 Range dir: Ε Section: 36 Spot: NE SE NE Longitude: -95.6886 Latitude: 38.96701

Long lat t: From PLSS Owner: Pauline/Lawrence Farmers Coop

Monitoring well/observation/piezometer Well use:

Comple dat: 19-May-1999

CONSTRUCTED Other id: Status: MW 12

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth: Elev: 10 Not Reported

TC3231157.2s Page A-19

Static dep: 4.07 Est yield: Not Reported

Driller: JB Environmental Drilling

E22
NNE

KS WELLS

KS600000168294

1/2 - 1 Mile Higher

> Well id: 306009 County: Shawnee Township: 12 Twn dir: S Range: 15 Range dir: Е NE SE NE Section: 36 Spot: Longitude: -95.6886 Latitude: 38.96701

Long lat t: From PLSS Owner: Pauline/Lawrence Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 19-May-1999

Status: CONSTRUCTED Other id: MW 11

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth:15Elev:Not ReportedStatic dep:4.08Est yield:Not Reported

Driller: JB Environmental Drilling

NNE 1/2 - 1 Mile Higher

Higher

Well id: 306011 County: Shawnee

 Township:
 12
 Twn dir:
 S

 Range:
 15
 Range dir:
 E

 Section:
 36
 Spot:
 NE

Section: 36 Spot: NE SE NE
Longitude: -95.6886 Latitude: 38.96701
Long lat t: From PLSS Owner: Pauline/Lawrence Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 19-May-1999

Status: CONSTRUCTED Other id: MW 13

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth:10Elev:Not ReportedStatic dep:4.07Est yield:Not Reported

Driller: JB Environmental Drilling

E24
NNE
1/2 - 1 Mile
KS WELLS

Well id: 306013 County: Shawnee Township: 12 Twn dir: S Range: 15 Range dir: Ε Section: 36 Spot: NE SE NE Latitude: Longitude: -95.6886 38.96701

Long lat t: From PLSS Owner: Pauline/Lawrence Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 19-May-1999

Status: CONSTRUCTED Other id: MW 15

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth: 12 Elev: Not Reported

TC3231157.2s Page A-20

KS6000000168296

KS6000000168298

Static dep: 7.34 Est yield: Not Reported

Driller: JB Environmental Drilling

NNE KS WELLS KS600000168297 1/2 - 1 Mile

1/2 - 1 Mile Higher

> Well id: 306012 County: Shawnee Twn dir: Township: 12 S Range: 15 Range dir: Е NE SE NE Section: 36 Spot:

Longitude: -95.6886 Latitude: 38.96701
Long lat t: From PLSS Owner: Pauline/Lawrence Farmers Coop

Well use: Monitoring well/observation/piezometer

Comple dat: 19-May-1999

Status: CONSTRUCTED Other id: MW 14

Dwr number: Not Reported

Directions: 416 SW 57th, Topeka

Well depth:12Elev:Not ReportedStatic dep:3.04Est yield:Not Reported

Driller: JB Environmental Drilling

26

NNE 1/2 - 1 Mile Higher

Well id:79788County:ShawneeTownship:12Twn dir:SRange:16Range dir:E

Section: 31 Spot: SW NW
Longitude: -95.68521 Latitude: 38.96611
Long lat t: From PLSS Owner: US Air Force

Well use: Monitoring well/observation/piezometer

Comple dat: 27-Dec-1984

Status: CONSTRUCTED Other id: DW 4
Dwr number: Not Reported

Directions: Not Reported

Well depth: 48.6 Elev: Not Reported Static dep: 17.53 Est yield: Not Reported

Driller: Terracon, Inc.

F27

ENE 1/2 - 1 Mile Higher

> 79792 Well id: County: Shawnee Township: 12 Twn dir: S Range: 16 Range dir: Ε Section: 31 Spot: SW SE Longitude: Latitude: 38.95883 -95.67635 From PLSS Long lat t: **US Air Force** Owner:

Well use: Monitoring well/observation/piezometer

Comple dat: 27-Dec-1984

Status: CONSTRUCTED Other id: DW 2

Dwr number: Not Reported Directions: Not Reported

Well depth: 52.7 Elev: Not Reported

TC3231157.2s Page A-21

KS6000000168230

KS6000000167922

KS WELLS

Static dep: 12.09 Not Reported Est yield:

Driller: Terracon, Inc.

F28 ENE 1/2 - 1 Mile Higher **KS WELLS** KS6000000167923

Well id: 79794 County: Shawnee Township: Twn dir: 12 S Range: 16 Range dir: Ε Section: 31 Spot: SW SE -95.67635 38.95883 Longitude: Latitude: **US Air Force** Long lat t: From PLSS Owner:

Well use: Monitoring well/observation/piezometer

27-Dec-1984 Comple dat:

CONSTRUCTED Other id: DW 1 Status:

Not Reported Dwr number:

Not Reported Directions:

Well depth: 55 Elev: Not Reported Static dep: 8.59 Est yield: Not Reported

Driller: Terracon, Inc.

29 WSW **KS WELLS** KS6000000167311

1/2 - 1 Mile Higher

> Well id: 98178 County: Shawnee Township: 13 Twn dir: S

> Е 15 Range dir: Range: Section: Spot: NW NE SE 2

> Longitude: -95.7095 Latitude: 38.94881 Long lat t: From PLSS Owner: Koot

Well use: Domestic Comple dat: 21-Feb-1995

PLUGGED Other id: Status: Not Reported

Dwr number: Not Reported

Directions: from 65th St: 100' S, 1 mi W of US 75 Well depth: Not Reported Elev: 14 Static dep: 6 Not Reported Est yield:

Driller: Not Reported

AREA RADON INFORMATION

State Database: KS Radon

Radon Test Results

Zipcode	Avg Radon	Max Radon	Num Tests
			
66619	1.7	40.2	71

Federal EPA Radon Zone for SHAWNEE County: 2

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: 66619

Number of sites tested: 1

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 Not Reported Living Area - 2nd Floor Not Reported Not Reported Not Reported 0.000 pCi/L Basement 100% 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.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

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 and 2005 from the U.S. Fish and Wildlife Service.

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 Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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

Kansas Water Well Completion Records Database

Source: Kansas Geological Survey

Telephone: 913-864-3965

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Location Database Listing Source: Kansas Geological Survey

Telephone: 785-864-3965

RADON

State Database: KS Radon

Source: Department of Health & Environment

Telephone: 785-296-1500

Kansas Indoor Radon Measurements

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX E

Site Photographs



Photo #1 Facing north, image of the City of Topeka Public Works Water Division structure located on a south adj. property.



Photo #3 Facing west, image of west adj. property (vacant land).



Photo #5 Facing southeast, image University Drive followed by



Photo #2 Facing northeast, standing near the southwest corner of site.



Photo #4 Facing east, image of water meter located on the west side of site, near the south tree line.



Photo #6 Facing north, image of an open dirt area with stacks of logs located on the southeast area of site.



Photo #7 Facing north, image of Baker Dr located on the south side of site.



Photo #9 Facing east, image of pit located near Baker Drive on the site.



Photo #11 Facing east, image of site that is located south of University Drive.



Photo #8 Facing west, image of an area located on the south side of site followed by Premier Farm & Home facility (adj. property).



Photo #10 Facing north, image of Shunganunga Creek that flows from the northwest portion of the site east.



Photo #12 Facing south, image of site followed by a south adj. property (Fannin Fabrication Co.)



Photo #13 Facing north, image of polemounted transformer located on the southeastern portion of site.



Photo #15 Facing north, of electrical equipment associated with the pole-mounted transformer.



Photo #16 Facing north, image of vacant land followed by residential.



Photo #14 Facing east, image of site followed by railroad tracks, Topeka Blvd., and Forbes Field.



Photo #15 Facing southwest, standing near the northeast corner of site.



Photo #17 Facing south, near the northwest portion of the site. The pathway between the trees leads to the agricultural area located on the west side of site.



Photo #18 Facing north, image of site followed by a north adj. property (warehouse or storage facility).



Photo #19 Facing south, image of site located south of University Drive. Image of pole-mounted transformer followed by south adj. property.

APPENDIX F

Credentials

KENDRA CASPERS

FIELD SCIENTIST - ENVIRONMENTAL SERVICES

PROFESSIONAL EXPERIENCE

Ms. Caspers is a Field Scientist in Terracon's Topeka, Kansas, office. Ms. Caspers manages projects including Phase I Environmental Site Assessments, in the Kansas Brownfields Program and is responsible for the assistance in the performance of field investigations, work plan development, bid proposal preparation, scope of services, and report preparation.

Ms. Caspers received her Bachelor's Degree in Environmental Studies at the University of Kansas in 2010. Her course work included Environmental Policy, Environmental Geology, Urban Planning, Ecology, Map Cartography, Environmental Quality, and Geographic Information Systems (GIS).

PROJECT EXPERIENCE

Phase I Environmental Site Assessments- 2011

Completed more than 25 Phase I ESAs including agricultural sites, various commercial properties, manufacturing facilities, and governmental buildings located in Kansas and south Missouri.

Kansas Brownfields Projects - 2010-2011, Kansas

Multiple sites in Kansas requiring Brownfields Targeted Assessment Phase 1 reports and multiple sites requiring Brownfields Targeted Assessment Phase II Investigations. Phase I and Phase II investigations were developed for sites in Coffeyville, and Cherryvale, KS. Phase II activities included soil borings to evaluate soil and groundwater conditions.

Phase II—Plainville, KS 2011

Assisted in collecting groundwater and soil samples for KDHE.

Shawnee County Landfill—2011, Topeka, KS

Sampled monitoring wells and testing salinity and analyzed data. Compiled charts and generated reports.

Franklin County Landfill—2011, Ottawa, KS

Sampled monitoring wells for groundwater analysis for an active landfill.

Plainville, KS – 2011

Performed a limited site investigation which consisted of collecting soil and groundwater samples.

Marion, KS Asbestos Inspection - 2011

Completed an asbestos survey and collected samples for the Marion Reserve.

Education

Bachelor of Science, Environmental Studies, 2010, University of Kansas

Certification

OSHA 40-Hour HAZWOPER

Certified Asbestos Inspector for Kansas and Missouri

Work History

Terracon Consultants, Inc, Field Scientist, 2010 to present



BRIDGET M. AESCHLIMAN, P.G. ENVIRONMENTAL DEPARTMENT MANAGER

PROFESSIONAL EXPERIENCE

Ms. Aeschliman Environmental Department Manager in Terracon's Topeka, Kansas office. Ms. Aeschliman has eighteen years project management experience (13 years as a regulator for the State of Kansas) and professional training focused on environmental assessment and environmental remediation. As a professional geologist and department manager, she is responsible for business development, management and technical supervision of environmental personnel and project in the Topeka region. She has five years experience in management of two state-wide programs including both project and budgetary issues. Ms. Aeschliman's management experience entails environmental assessment and cleanup projects conducted to protect drinking water resources, facilitate property transactions, and support redevelopment of idle and underutilized properties. Ms. Aeschliman has managed several large scale remediation projects across the state of Kansas.

PROJECT EXPERIENCE

Joint Forces Headquarters EA, Kansas Adjutant General's Department 2006-2008

Managed Environmental Assessment (EA) for the proposed construction of the Joint Forces Headquarters at the National Guard facility in Topeka, Kansas. This EA was completed according to US Army National Guard and NEPA specifications including research, data collection and interpretation, report preparation, and community outreach.

Park Project & Proposed Fire Station HUD EA, Fort Scott, Kansas 2006-2007

Managed Environmental Assessment (EA) for the proposed construction of the a park and fire station retaining wall in Fort Scott, Kansas. This EA was completed according to HUD and NEPA specifications including research, data collection and interpretation, report preparation, and community outreach.

REDEVELOPMENT PROJECTS

Go Topeka Site, Greater Topeka Chamber of Commerce, 2007-2009

Completed Phase I ESA and subsequent updates for a development project at an approximate 400 acre tract of land. In addition to the ESA, letters were sent to the Kansas Historical Society, Kansas Department of Wildlife and Parks, and the US Fish and Wildlife Department to identify any concerns the agencies may have regarding future development.

Menninger Hill Redevelopment – Topeka, Kansas, 2007-2009

Managed Phase I ESA services for the 120 acre, 22 building former mental health facility proposed as the new location of a local hospital. Once assessment was complete, provided project management for a comprehensive asbestos survey of the site.

Education

Bachelor of Science, Geology, 1993, Kansas State University

Affiliations

ABWA, 2009-Present

KEEN and ToWn Groups

Treasurer ToWn Group, July 2009-Present

Registrations

Kansas Licensed Geologist #45

Certifications

Phase I and Phase II Environmental Site Assessments, ASTM, December 2005, Kansas City, KS

Orientation to Quality Assurance/Systematic Planning Process and Quality Assurance Project Plans/Data Quality Assessment, USEPA, October 2005, Topeka, KS

HAZWOPER Refresher Training, Terracon In-house Training, December 2008

Bankruptcy and Environmental Enforcement, USEPA, January 2004, Topeka, KS

The Anatomy of Real Estate Development, USEPA, July 2002, Kansas City KS

HAZWOPER 40-Hour Training,

USEPA, April 1994, Topeka, KS

Opacity Method 9 Certification, April 2009-Present

Work History

Terracon Consultants, Inc..-Environmental Project Manager 2006-Present

Kansas Department of Health and Environment (KDHE) Professional Geologist IV, 2001 to 2006

Kansas Department of Health and Environment (KDHE) Environmental Geologist/Project Manager, 1993 to 2001



BROWNFIELDS

Cherryvale Brownfields Assessment Project - Cherryvale, Kansas 2009-Present

Senior Project Manager for the City of Cherryvale, Kansas' USEPA Brownfields Assessment Grants. The projects involved Phase I and Phase II Assessment, redevelopment strategies, and cleanup planning to support the redevelopment of properties within the city. Activities included development of QAPPs, TSAPs, Work Plans, Health and Safety Plans, ABCAs and community education presentations.

Coffeyville Brownfields Assessment Project - Coffeyville, Kansas 2010-Present

Senior Project Manager for the City of Coffeyville, Kansas' USEPA Brownfields Assessment Grants. The projects involved Phase I and Phase II Assessment, redevelopment strategies, and cleanup planning to support the redevelopment of properties within the city. Activities included development of QAPPs, TSAPs, Work Plans, Health and Safety Plans, ABCAs and community education presentations.

Kansas Brownfields Workshops - Various Cities, Kansas, 2007, 2010

Planned and organized day long seminars at various locations on behalf of KDHE. Obtained speakers, developed promotional material, and provided senior assistance during workshops.

KDHE BTAs, State of Kansas, 2006-2011

Senior review and management of Phase I and Phase II Brownfields Targeted Assessments (BTA) under this KDHE Contract No. 06509 and 10411. Contract Manager for KDHE Contract No. 10411.

KDHE VCP Site, Road Maintenance Facility, Shawnee County, Kansas, 2009

Terracon provided environmental services for the Voluntary Investigation required by KDHE to evaluate potential environmental issues associated with this current road maintenance facility in Shawnee County. The site is a 40 acre tract of land that has been used as a road maintenance facility since the 1970's. Once investigative activities are completed, potential cleanup strategies, if necessary, will be evaluated.

City of Flagstaff Brownfields QAPP/HSP – Flagstaff, Arizona, 2007-2008

Author of Generic QAPP/HSP for the City of Flagstaff's Route 66 Central Corridor Assessment Grant project. Developed document based on EPA Region 9 guidance documents and previously approved Terracon QAPP documents.

Kansas Brownfields Program Manager - KDHE, 2001-2006

While employed with KDHE, developed & implemented the program as the program coordinator since programs inception in 2001 until 2006. In that time, over 350 parcels of property were assessed. Assisted local governments, developers, and various economic development agencies in redeveloping brownfield properties by satisfying federal all appropriate inquiry requirements and addressing environmental impacts. Assisted and developed several grant applications submitted to USEPA for program funding. Managed several city-wide and state Brownfields inventory projects across the state including the state-wide RedevelopKS Initiative and assessment of redevelopment corridors in Wichita and Topeka. Sole person responsible for promoting the Brownfields Program to municipalities, economic development agencies, and Not-For-Profit organizations.

KDHE Brownfields Petroleum Assessment Grant, 2005 State of Kansas

Author of a successful grant application for a \$200,000 Brownfields Petroleum Assessment Grant from USEPA. Funding awarded following a national USEPA grant competition.

21st Corridor Assessment Project, 2004-2006 Wichita, Kansas

Project Manager for approximately 190 parcels of property for Phase I Brownfields Targeted Assessments. Conducted subsequent Phase II assessments for 14 parcels with Recognized Environmental Conditions.

Topeka Riverfront Development Brownfields Assessment, 2005-2006 Topeka, Kansas

Project Manager for Phase I & II Brownfields Targeted Assessment activities of the proposed redevelopment area in downtown Topeka.



Property Redevelopment Assessments, 2004-2005, FUDS Sites in Kansas

Directed the completion of Phase I & II Property Redevelopment Assessments at Formerly Utilized Defense Sites (FUDS) in Pratt and Salina, Kansas. Activities were conducted under KDHE's Brownfields grant.

Burlingame Railroad Corridor, 2006, Burlingame, Kansas

Directed activities for the Phase II Brownfields Targeted Assessment and subsequent excavation activities of petroleum impacted soils under the Kansas Voluntary Cleanup Program.

KDHE Brownfields Pilot Revolving Loan Fund Grant, State of Kansas, 2003

Author of a successful grant application for a \$1.0 million Brownfields Revolving Loan Fund Grant from USEPA. Funding awarded following a national USEPA grant competition.

REMEDIATION

Shawnee County Landfill & Shooting Range, Shawnee County, Kansas 2009-2011

Project manager for the investigation and corrective action planning of a former shooting range located at the Shawnee County, Kansas landfill. Proposed corrective action activities include lead recycling, soil stabilization, and capping. In addition to the investigation of the shooting range, also managed the preparation of the Corrective Action Plan for repairs on the former landfill cap.

Kansas State Water Plan Contamination Remediation Program Manager, KDHE, 2001-2006

With an annual average of 80 sites across Kansas, was responsible, for ensuring staff assigned to the program adequately address sites from the assessment to the cleanup phase. Program manager responsibilities included managing a one million dollar a year budget. To conduct field activities for specific sites within the program, developed and reviewed Requests For Proposals for services. Ms. Aeschliman was required to manage a state-wide contract for environmental services with up to six separate vendors and associated subcontractors. Projects often entail joint efforts between the Kansas Environmental Use Controls, Voluntary Cleanup, and Brownfields programs. In this program, Ms. Aeschliman was required to have significant interaction with the public, other state agencies, local governments, Basin Advisory Committees, and USEPA. Specific sites managed in the program included abandoned zinc smelter and manufactured gas plant facilities, abandoned refineries, petroleum release sites, agri-chemical release sites, and various other properties.

Former Webster/Miller Refinery, Humboldt, Kansas, 1997-2006

Project manager during Comprehensive Investigation activities conducted to define the nature of an existing tar pit at the site. Subsequent to investigation activities, a Corrective Action Study was conducted to determine the most appropriate cleanup option based on feasibility and cost. Corrective Action activities consisted of removal of sludge material from two sludge pits, a "chemist pit", and an additional sludge breakout area at the site. These activities were conducted to stabilize material remaining in tar pit. The material was mixed with cement kiln dust from a nearby cement plant and encapsulated. Approximately 3,100 cubic feet of material was excavated and removed and/or treated at the site. Ms. Aeschliman managed the primary vendor on this project and directed the RFP process to obtain a subcontractor for cleanup activities.

Former Great Western Refinery, Erie, Kansas, 2001-2004

Project manager in charge of determining the correct cleanup alternative to this former refinery site. The existing land owner had encapsulated much of the waste sludge material; however, the thickness of the cap and depth of the material had not been documented. Efforts conducted at the site consisted of characterizing the material to determine if the efforts the landowner had conducted had stabilized the material. Sludge "breakout" areas were also identified at this time and were consolidated with the other encapsulated material during the characterization process.

Water Line Installation at Ace Services Superfund Site, Colby, Kansas 2001-2002

Project manager for the installation of a 1 ½ mile water line installed to provide a safe drinking water supply for residences with hexavalent chrome impacts to their domestic wells from the Ace Services Superfund site.



As project manager, directed contractor during the design of the water line, the RFP process to obtain a subcontractor, and during the installation and final walk-through of the system.

Wellington Former Manufactured Gas Plant (FMGP), Wellington, Kansas 1998-2006

Project manager for FMGP site located in a City Park. Conducted Comprehensive Investigation activities as well as indoor air activities at a building remaining from former MGP operations. Due to indoor air impacts from the FMGP, oversaw the design modifications for the heating and cooling system in the building.

Winfield Former Manufactured Gas Plan (FMGP), Winfield, Kansas 1998-2006

Directed cleanup activities associated with coal gas impacts to surface soil. Evaluation of cleanup options determined the most effective approach would be limited excavation combined with an engineered vegetative cap and geotextile marker. Once construction activities for the project were complete, an institutional control was placed on the property.

Moscow Public Water Supply, Moscow, Kansas, 1997-1999

Project manager for this impacted public water supply site. After ethylene dibromide was detected in a City of Moscow public water supply well, the well was taken out of service until an effective well-head treatment system could be designed. As an emergency response action, Ms. Aeschliman directed contractors to modify an existing air stripper system removed from a previous site to be used as an interim well-head treatment system at the site. This system was in operation for approximately nine months until a permanent system could be installed.

Richardson Property, Hutchinson, Kansas, 2001-2006

Directed activities at this illegal dumping area that had historically contained leaking bulk oil tanks and drums of unidentified materials. Investigations at the property determined that petroleum sludge and petroleum contaminated soils were present at the site. Corrective action activities were initiated in May 2004. Bulk storage tanks were emptied, crushed, and disposed of the Reno County Landfill. Approximately 800 cubic yards of sludge were stabilized with cement kiln dust. Approximately 1,000 cubic yards of stabilized sludge, along with contaminated soil, were disposed of at the landfill.

Hutchinson Air Base Industrial Tract (HABIT), Yoder, Kansas 1997-2006

Project manager for site whose ground water plume was migrating towards a public drinking water well. Several domestic wells present within plume area. The Kansas State Water Plan program installed approximately 3 miles of water line to supply residents with a safe drinking water supply.

