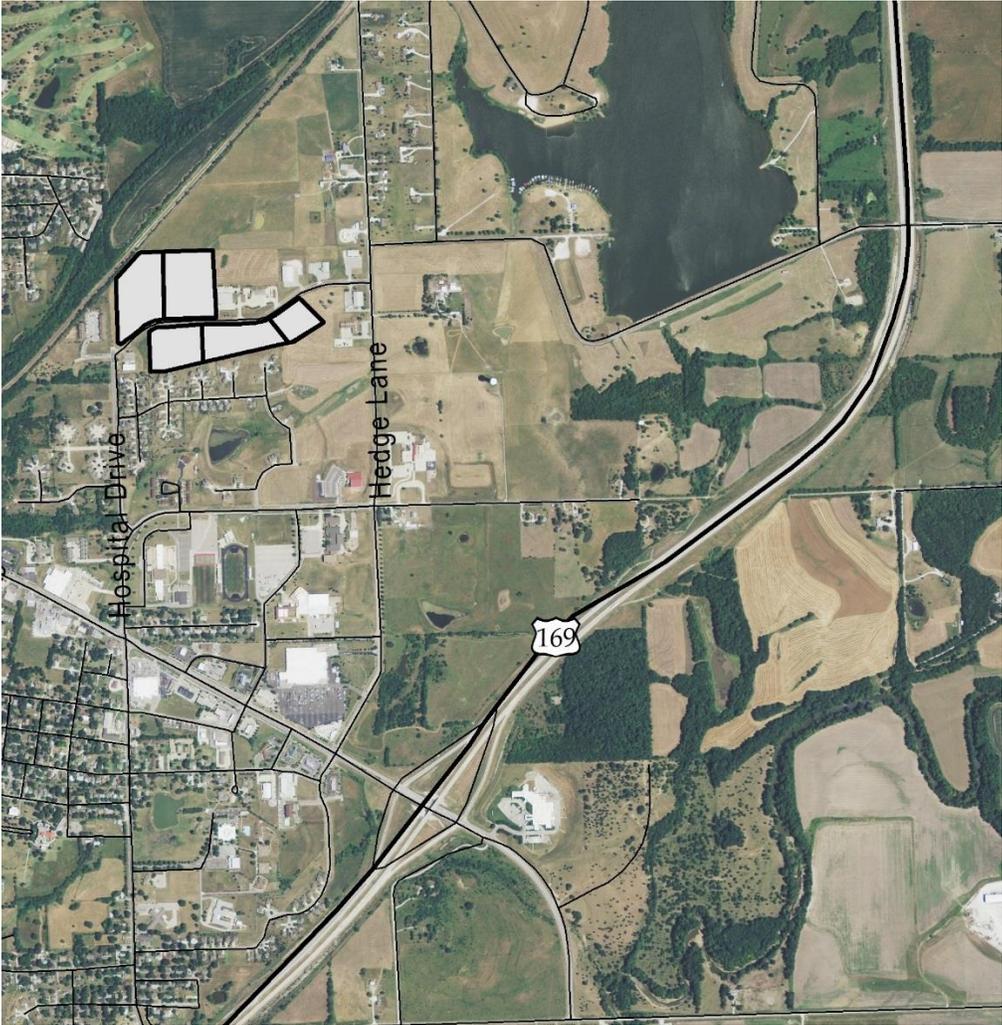


Certified Site Application

Attachments



Site Location:

Paola Industrial Park
Industrial Park Drive
Paola, Kansas
15.8 Acres and 13.9 Acres
Zoned Business Park
City-Owned Greenfield

Applicant:

City of Paola, Kansas
Randi Shannon,
Interim City Manager
PO Box 409
Paola, KS 66071
(913) 259-3600

Submitted by:

Miami County, Kansas
Economic Development
Janet McRae, Director
201 S Pearl, Suite 202
Paola, KS 66071
(913) 294-4045

Paola Industrial Park Industrial Park Drive Paola, Kansas
Applicant: City of Paola, submitted by Miami County, Kansas

CONTENTS

Attachment One, Agricultural Lease

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Attachment Three, Site Covenants

Attachment Four, Zoning Regulations

Attachment Five, Overlay District Requirements

Attachment Six, Phase I Environmental Assessment

Attachment Seven, Soil Boring Report

Attachment One

Agricultural Lease

LEASE AGREEMENT

LESSOR: City of Paola, Kansas

LESSEE: Chad Myers 29768 Oak Groove Rd. 66071

The City of Paola, Kansas owns certain lands in Section 2, 3, 10 and 11, Township 17, Range 23, known as the Lake Miola Area. Said land to consist of 90 to 100 acres as outlined on the attached map labeled "Lake Miola Hay Map 2017".

The City of Paola, Kansas also owns certain lands in Section 10, Township 17, Range 23, known as the Industrial Park Drive. Said land to consist of 20 to 25 acres as outlined on the attached map labeled "Industrial Hay Map 2017".

The City of Paola agrees to rent said acreage to the above mentioned Lessee on the following basis.

The said Lessee may enter upon said acreage for the purpose of burning, fertilizing and cutting hay on said property. Hay must be cut, raked and bailed in all areas on or before July 1st of each year. Said bails must be removed from the property on or before July 15th of each year. On years that weather will allow, we will require a second annual cut, rake and bailed on or before September 30th of each year. Said bails must be removed from the property on or before October 15th of each year. Lessee will rotary cut all remaining areas not taken for hay to help control the weeds after harvest. The Lessee shall pay **\$500.00** per year for rights to the hay ground. The payment shall be due and payable January 31st of each year.

If the terms are not met, the Lessee agrees to pay said Lessor \$15.00 per bail not removed from the property in the time frame listed above.

In the event the Lessor reduces the usable acreage available for the haying below a total of 110 acres as set forth on the attached Lake Miola Hay Map 2017 and the attached Industrial Hay Map 2017, the Lessor and the Lessee mutually agree to amend the annual payment to reflect the decrease in available usable acreage by an amount of \$4.50 per acre.

The Lease will be in effect for the years 2017 – 2021 and will automatically renew January 1st of the following year, unless written notice is given 30 days in advance to cancel Lease by either Lessee or Lessor.

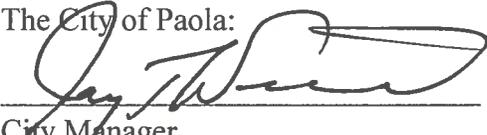
The Lessee shall provide a Certificate of Farm Liability Insurance to the Lessor no more than 10 days after this agreement is executed.

Lessee cannot assign his interest in the Lease without consent by Lessor.

Dated this 10th day of February, 2017.

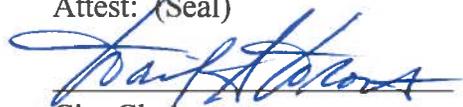


The City of Paola:



City Manager

Attest: (Seal)



City Clerk

Lessor:



Chad Myers

Lake Miola Hay Map 2016

Legend

- 7 13 Acres
- 6 16 Acres
- 10 18 Acres
- 3 18.2 Acres
- 6 2.3 Acres
- 6 4.0 Acres
- 2 5.0 Acres
- 4 5.5 Acres
- 9 6.5 Acres
- 1 9.2 Acres



Google earth

© 2015 Google

Industrial Hay Map 2016

Legend

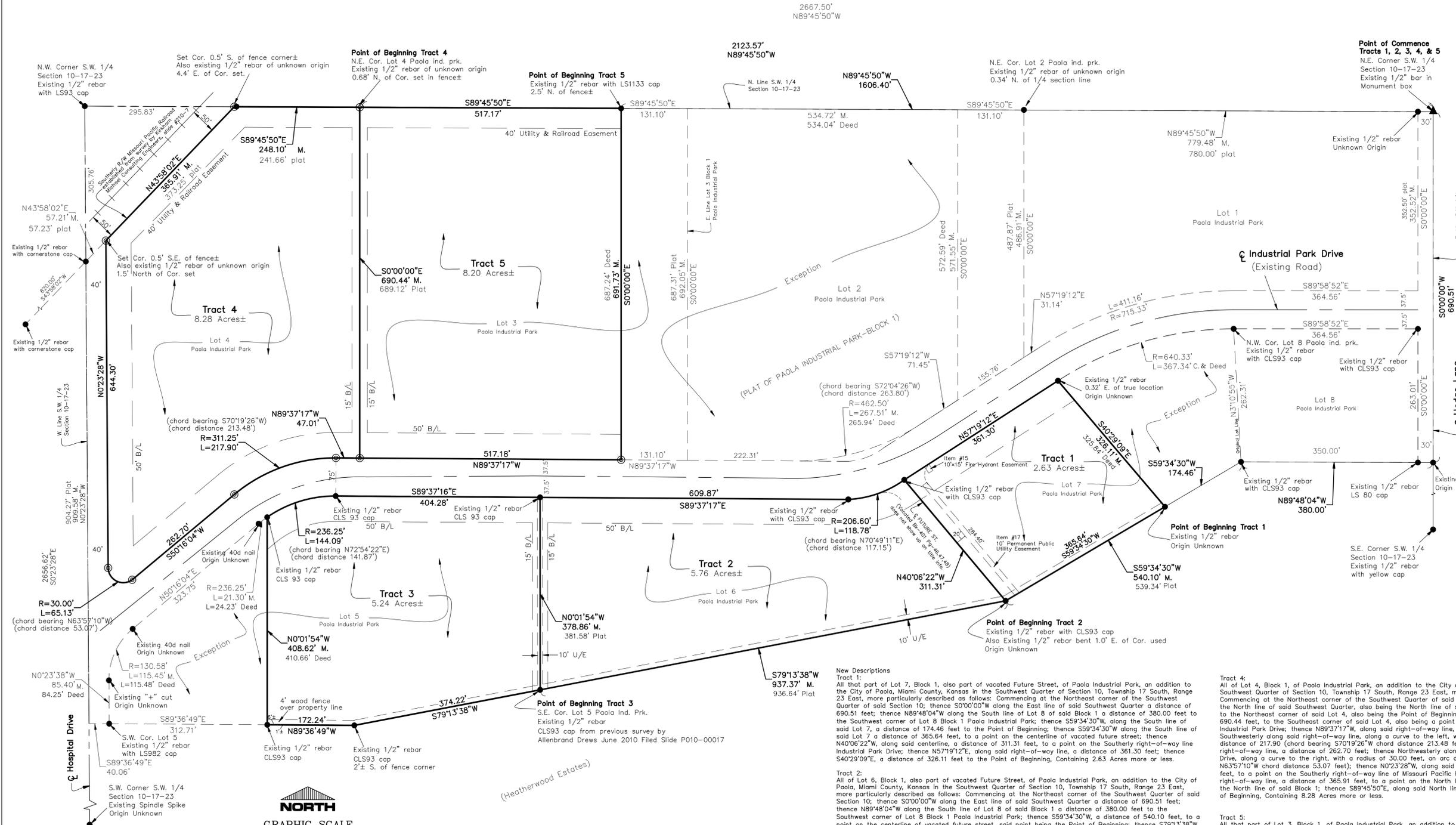
- 1 15.4 Acres
- 2 9.5 Acres



Attachment Two

Boundary Survey

CERTIFICATE OF SURVEY

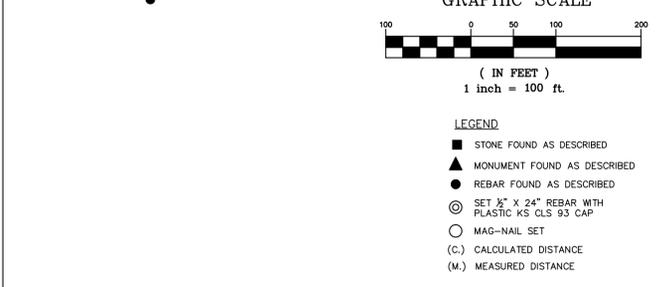


ORIGINAL LEGAL DESCRIPTION:
 Lots 3, 4, 5, 6, and 7, Block 1, of Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas, EXCEPTING THEREFROM THE FOLLOWING DESCRIBED TRACTS:
 Part of Lot 3, Block 1, Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas, contained in the following described tract: Commencing at the Northeast corner of Lot 2, Block 1, Paola Industrial Park, an addition to the City of Paola, thence North 89°45'26" West 131.10 feet along the North line of said Lot 2 to the true point of beginning, thence South 0°00'00" East 572.59 feet along a line parallel to the East line of said Lot 2 to a point on the South line of said Lot 2, thence South 57°10'30" West 71.45 feet along the South line of said Lot 2, thence leaving the South line of said Lot 2 on a curve to the right, said curve having a Radius of 462.50 feet, an Arc Length of 265.94 feet and a Central Angle of 32°56'43" to a point on the South line of said Lot 2, thence North 89°52'47" West 222.31 feet along the South line of said Lot 2 to a point being the Southwest corner of said Lot 2, thence North 89°52'47" West 131.10 feet along the South line of Lot 3, thence North 0°00'00" West 687.24 feet along a line parallel to the East line of said Lot 3 to a point on the North line of said Lot 3, thence South 89°45'26" East 131.10 feet along the North line of said Lot 3, to a point being the Northeast corner of said Lot 3, thence South 89°45'26" East 534.04 feet along the North line of said Lot 2 to the point of beginning.

Also excepting:
 Commencing at the Southwest corner of Lot 5, Block 1, Paola Industrial Park Subdivision, City of Paola, thence North 0°40'35" West 84.25 feet along the West line of said Lot 5, to a point of curvature, thence along a curve to the right with a radius of 130.58 feet and an arc length of 115.48 feet, thence North 48°58'58" East 323.75 feet to a point of curvature, thence along a curve to the right with a radius of 236.25 feet and an arc length of 24.23 feet to a point of non-tangency, thence South 0°01'27" West 410.66 feet along a line parallel to the East line of said Lot 5 to a point on the South line of said Lot 5, thence North 89°37'03" West 312.71 feet along the South line of said Lot 5 to the point of beginning, all in the City of Paola, Miami County, Kansas.

Also excepting:
 All that part of Lot 7, Block 1, of Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas, described as follows:
 From the Northwest corner of Lot 8, thence South 03°10'57" East 262.31 feet along the East line of Lot 7, thence South 59°34'32" West 174.46 feet along the South line of Lot 7; thence North 40°30'30" West 325.84 feet to a point on the South right of way line of Industrial Park Drive; thence along said right of way line on a curve to the right with a radius of 640.33 feet and an arc distance of 367.34 feet to the point of beginning, all in the City of Paola, Miami County, Kansas.

Title information provided by First American Title Insurance Company, File No. 2212630, Commitment Date June 8, 2017.
 9. Plat of Paola Industrial Park - Block 1, as recorded September 17, 1982 in Plat Book C, Page 25-A, and Slide 115.
 15. Easement dated February 12, 1998, to the City of Paola, Kansas, recorded February 17, 1998 in Book 407 Misc., page 37. (Block 1, Lot 7) (shown on drawing)
 16. Easement dated February 12, 1998, to the City of Paola, Kansas, recorded February 17, 1998 in Book 407 Misc., page 45. (Block 1, Lot 7) (does not pertain to subject property)
 17. Permanent Public Utility Easement, dated November 19, 2008, to the City of Paola, Kansas, recorded November 19, 2008 in Book 2008, page 05982. (Lot 6) (shown on drawing)



THIS IS TO CERTIFY THAT ON THE 12TH DAY OF JULY, 2017, THIS FIELD SURVEY WAS COMPLETED ON THE GROUND BY ME OR UNDER MY DIRECT SUPERVISION AND THAT SAID SURVEY MEETS OR EXCEEDS THE "KANSAS MINIMUM STANDARDS" FOR BOUNDARY SURVEYS PURSUANT TO K.A.R. 66-12-1.

New Descriptions
Tract 1:
 All that part of Lot 7, Block 1, also part of vacated Future Street, of Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas in the Southwest Quarter of Section 10, Township 17 South, Range 23 East, more particularly described as follows: Commencing at the Northeast corner of the Southwest Quarter of said Section 10; thence S0°00'00" W along the East line of said Southwest Quarter a distance of 690.51 feet; thence N89°48'04" W along the South line of Lot 8 of said Block 1 a distance of 380.00 feet to the Southwest corner of Lot 8 Block 1 Paola Industrial Park; thence S59°34'30" W along the South line of said Lot 7 a distance of 174.46 feet to the Point of Beginning; thence S59°34'30" W along the South line of said Lot 7 a distance of 365.64 feet, to a point on the centerline of vacated future street; thence N40°06'22" W, along said centerline, a distance of 311.31 feet, to a point on the Southerly right-of-way line of Industrial Park Drive; thence N57°19'12" E, along said right-of-way line, a distance of 361.30 feet; thence S40°29'09" E, a distance of 326.11 feet to the Point of Beginning, Containing 2.63 Acres more or less.

Tract 2:
 All of Lot 6, Block 1, also part of vacated Future Street, of Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas in the Southwest Quarter of Section 10, Township 17 South, Range 23 East, more particularly described as follows: Commencing at the Northeast corner of the Southwest Quarter of said Section 10; thence S0°00'00" W along the East line of said Southwest Quarter a distance of 690.51 feet; thence N89°48'04" W along the South line of Lot 8 of said Block 1 a distance of 380.00 feet to the Southwest corner of Lot 8 Block 1 Paola Industrial Park; thence S59°34'30" W, a distance of 540.10 feet, to a point on the centerline of vacated future street, said point being the Point of Beginning; thence S79°13'38" W, along the South line of said Lot 6, a distance of 937.37 feet, to the Southwest corner of said Lot 6; thence N0°01'54" W, a distance of 378.86 feet, to the Northeast corner of said Lot 6, said point being on the Southerly right-of-way line of Industrial Park Drive; thence S89°37'16" E, along said Southerly right-of-way line, a distance of 609.87 feet; thence Northeastly along said right-of-way line, along a curve to the left with a radius of 206.60 feet, an arc distance of 118.78 feet (chord bearing N70°49'11" E, chord distance 117.15 feet), to a point on the centerline of vacated future street; thence S40°06'22" E, along said centerline, a distance of 311.31 feet, to the Point of Beginning, Containing 5.76 Acres more or less.

Tract 3:
 All that part of Lot 5, Block 1, of Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas in the Southwest Quarter of Section 10, Township 17 South, Range 23 East, more particularly described as follows: Commencing at the Northeast corner of the Southwest Quarter of said Section 10; thence S0°00'00" W along the East line of said Southwest Quarter a distance of 690.51 feet; thence N89°48'04" W along the South line of Lot 8 of said Block 1 a distance of 380.00 feet to the Southwest corner of Lot 8 Block 1 Paola Industrial Park; thence S59°34'30" W, a distance of 540.10 feet, to a point on the centerline of vacated future street, said point being the Point of Beginning; thence S79°13'38" W, along the South line of said Lot 5, a distance of 374.22 feet; thence N89°36'49" W, along the South line of said Lot 5, a distance of 172.24 feet; thence N0°01'54" W, a distance of 408.62 feet, to a point on the Southerly right-of-way line of Industrial Park Drive; thence Northeastly along said right-of-way line, along a curve to the right, with a radius of 236.25 feet, an arc distance of 144.09 feet (chord bearing N72°54'22" E, chord distance 141.87 feet); thence S89°37'16" E, along said Southerly right-of-way line, a distance of 404.28 feet, to the Northeast corner of said Lot 5; thence S0°01'54" E, a distance of 378.86 feet, to the Point of Beginning, Containing 5.24 Acres more or less.

Tract 4:
 All of Lot 4, Block 1, of Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas in the Southwest Quarter of Section 10, Township 17 South, Range 23 East, more particularly described as follows: Commencing at the Northeast corner of the Southwest Quarter of said Section 10; thence S0°00'00" W along the East line of said Southwest Quarter a distance of 690.51 feet; thence N89°45'50" W, along the North line of said Southwest Quarter, also being the North line of said Block 1, a distance of 1606.40 feet, to a point 131.10 feet West of the Northeast corner of said Lot 3, also being the Point of Beginning; thence S0°00'00" E, parallel to the East line of said Lot 3, a distance of 691.73 feet, to a point on the Northerly right-of-way line of Industrial Park Drive; thence N89°37'17" W, along said right-of-way line, a distance of 517.18 feet, to the Southwest corner of said Lot 3; thence N0°00'00" W, a distance of 690.44 feet, to the Northeast corner of said Lot 3; thence S89°45'50" E, a distance of 517.17 feet, to the Point of Beginning, Containing 8.20 Acres more or less.

Tract 5:
 All that part of Lot 3, Block 1, of Paola Industrial Park, an addition to the City of Paola, Miami County, Kansas in the Southwest Quarter of Section 10, Township 17 South, Range 23 East, more particularly described as follows: Commencing at the Northeast corner of the Southwest Quarter of said Section 10; thence S0°00'00" W along the East line of said Southwest Quarter a distance of 690.51 feet; thence N89°45'50" W, along the North line of said Southwest Quarter, also being the North line of said Block 1, a distance of 1606.40 feet, to a point 131.10 feet West of the Northeast corner of said Lot 3, also being the Point of Beginning; thence S0°00'00" E, parallel to the East line of said Lot 3, a distance of 691.73 feet, to a point on the Northerly right-of-way line of Industrial Park Drive; thence N89°37'17" W, along said right-of-way line, a distance of 517.18 feet, to the Southwest corner of said Lot 3; thence N0°00'00" W, a distance of 690.44 feet, to the Northeast corner of said Lot 3; thence S89°45'50" E, a distance of 517.17 feet, to the Point of Beginning, Containing 8.20 Acres more or less.

PREPARED FOR:
 CITY OF PAOLA

PREPARED BY:
 ALLENBRAND-DREWS & ASSOCIATES, INC.
 122 N. WATER STREET
 OLATHE, KANSAS 66061
 PHONE: (913) 764-1076
 FAX: (913) 764-8635

REFERENCE SURVEYS PAOLA INDUSTRIAL PARK SLIDE #115, LOT SPLIT SLIDE #210-7, CERT. OF SURVEY BK-K SURVEYS PG-69, ASSUMED S0°00'00" W ALONG THE EAST LINE OF THE SOUTHWEST QUARTER SEC. 10.

CERTIFICATE OF SURVEY

**PT. S.W.1/4 SECTION 10-17-23
 MIAMI COUNTY, KANSAS**

AD
 Allenbrand-Drews & Associates, Inc.
 CIVIL ENGINEERS
 LAND SURVEYORS - LAND PLANNERS

122 N. WATER STREET
 OLATHE, KANSAS 66061
 PHONE: (913) 764-1076 FAX: (913) 764-8635

Scale: 1"=100' Drawn By: JDL Project: 33107
 Date: 6/15/2017 Printed By: JDL Plot: 10-17-23

AD PROJECT # T18107
CERTIFICATE OF SURVEY

Attachment Three

Site Covenants

PAOLA INDUSTRIAL PARK COVENANTS AND RESTRICTIONS

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RESOLUTION NO. 3-4-97A

A RESOLUTION REGULATING THE PAOLA INDUSTRIAL PARK AS TO HOW THE SAME SHALL BE IMPROVED, HELD, LEASED, SOLD OR CONVEYED, AND FIXING AND ESTABLISHING COVENANTS, CONDITIONS AND RESTRICTIONS PERTAINING THERETO.

BE IT RESOLVED BY THE GOVERNING BODY OF THE CITY OF PAOLA, that the Paola Industrial Park shall be regulated as hereinafter set out as to how said Park shall be improved, held, leased, sold, or conveyed, and there is hereby fixed and established the following covenants, conditions, and restrictions pertaining thereto:

ARTICLE 1

GENERAL PURPOSES OF RESTRICTIONS

1.01. The Entire Tract is hereby subjected to the Restrictions for the following purposes:

(a) To encourage development in a manner which is free from danger of fire, explosion, toxic and noxious matter and other hazards, and from offensive noise, vibration, smoke, dust, odorous matter and other objectionable influences.

(b) To protect the Entire Tract against congestion by limiting the bulk of Buildings in relation to the land around them and to one another, and providing for off-street parking and loading facilities.

(c) To promote the proper and most desirable use and development of the various parts of the Entire Tract in accordance with a well considered plan.

(d) To conserve the value of Building Sites and Buildings of Owner in the Entire Tract.

(e) To protect against construction of improvements on Building Sites which are of poor design or quality and to encourage construction of improvements utilizing good quality and attractive material and good architectural and planning standards, compatible with other improvements in the Entire Tract.

(f) To ensure compliance with all applicable federal, state and local laws and regulations.

(g) The City of Paola already has a Comprehensive Plan for 1983 and Zoning Subdivision Regulations that were adopted by Ordinance No. 2347 and Preliminary and Final Development Plan requirements that were adopted by Ordinance No. 2626, both of which apply to the real property located in the Paola Industrial Park. In the event of a conflict between the regulations contained therein and the Paola Industrial Park Covenants and Restrictions set forth herein, the most restrictive provisions shall be applied to the land located in the Paola Industrial Park and the future development thereof.

ARTICLE 2

CERTAIN DEFINITIONS APPLYING TO THIS RESOLUTION

2.01. The following terms shall, except where the context otherwise requires, have the respective meanings hereinafter specified:

(a) The term "Board" shall mean the Paola City Council herein, but the covenants and restrictions contained herein shall be subject to the process set forth in the procedures contained in the City of Paola Comprehensive Plan and Zoning Subdivision Regulations contained in Ordinance No. 2347 and Preliminary and Final Development Plan contained in Ordinance No. 2626.

(b) The term "Building" shall mean any structure which (i) is permanently affixed to the land, (ii) has one or more floors and a roof, and (iii) is bounded by either an open area or the lot lines of Building Site. A Building shall not include such structures as billboards, fences, or radio towers or structures with interior surfaces not normally accessible for human use, such as tanks, smokestacks, or similar structures.

(c) The term "Declarant" shall mean the City of Paola, Kansas, or any legal successor thereto, or any person who shall succeed to its rights and obligations hereunder.

(d) The term "Building Site" shall mean a portion of the Entire Tract on which a Building is erected or on which a Building could be constructed within the terms of the Declaration.

(e) The term "Building Line" shall have the meaning given to such term in Section 4.01 hereof.

(f) The term "Floor Area" shall mean the aggregate area of all floors within all Building erected on any Building Site. Each floor shall be measured to the exterior side of each outside wall where such floor extends to an outside wall and shall be measured to the interior side of the supporting pillars or walls where such floor does not extend to an outside wall. The term "Floor Area" shall not include truck ramps or shipping or delivery areas situated outside any Buildings, improvement or other structure.

(g) The term "Comprehensive Plan" shall mean the plan for the development of the City of Paola, Kansas, adopted by the City Council of the City of Paola, Kansas, in Ordinance No. 2347, Comprehensive Plan for 1983 and Zoning Subdivisions and

Regulations and Ordinance No. 2626, Preliminary and Final Development Plans, as hereafter amended.

(h) The term "Improvements" shall mean all buildings, structures, and facilities including paving, fencing, signs, and Landscaping constructed, installed, or placed on, under, or above any Building Site by or on account of a Tenant.

(i) The term "Landscaping" shall mean the aesthetic improvements of Building Sites through the use of lawns, ground cover, trees and shrubs, as well as walls, screening, terraces, fountains, pools, and other water arrangements.

(j) The term "Person" shall mean an individual, corporation, trust, partnership or unincorporated organization.

(k) The term "Record Owner" shall mean the owner at the time of any part of the Entire Tract as shown on the records of the Register of Deeds for the County of Miami, State of Kansas, as of the date of any action to be taken by such Record Owner under the provisions of this Declaration, and shall also mean and include any person designated in writing, whether in a lease or otherwise, by any such Record Owner to act in the manner provided herein with complete authority and in the place of such owner in the matter for which action is taken, as well as any person who as of the date of any action to be taken by such person under the provisions of this Declaration, leases any part of the Entire Tract from the Declarant.

(l) The term "Restrictions" shall mean the covenants, conditions and restrictions upon and subject to which the Entire Tract, or any part thereof, shall be improved, held, leased, sold and/or conveyed, all as hereinafter set forth.

(m) The term "Sign" is any writing (including letter, word, or numeral); pictorial representation (including illustration or declaration); emblem (including device, symbol or trademark); flag (including banner or pennant); or any other figure of similar character, which (i) is a structure or any part thereof, or is attached to, painted on or in any other manner represented on a Building or other structure, (ii) is used to announce, direct attention to, or advertise, and (iii) is visible from outside a Building. A Sign shall include writing, representation, or other figure of similar character within a Building only when illuminated and located in a window. The following shall not be deemed to be a Sign within the meaning as hereinabove set forth: (i) signs of a duly constituted governmental body, including traffic or regulatory devices, legal notices or warning; (ii) small signs displayed for the direction or convenience of the public, including signs which identify restrooms, freight entrances or the like.

(n) The term "Street" shall mean the paved or unpaved portion of a right-of-way maintained by the Declarant for use as a thoroughfare by the public at large.

(o) The term "Structure" shall mean any physical object temporarily or permanently affixed to the land, except grass, shrubbery, trees or other landscaping.

(p) The term "Tenant" shall mean any person who has or enters into a contract relationship with the Declarant for a Building Site.

(q) The term "Unavoidable Delays" shall mean strikes, lockouts, acts of God, casualty, boycotts, governmental restrictions, war, national emergency, inability to obtain labor or materials or other cause beyond the reasonable control of the Record Owner or the person claiming under such Record Owners; provided, however, lack of funds, or financing shall not be deemed an Unavoidable Delay.

ARTICLE 3

REVIEW AND APPROVAL OF IMPROVEMENTS

3.01. No Building or Structure, or other improvement including, but without limitation, any signs, poles or towers, paved areas or fences shall be erected, placed or altered on any Building Site in the Entire Tract until the plans and specifications therefor, and a plot plan showing the location thereof on the particular Building Site and a landscaping plan shall have been submitted to and approved in writing by the Board. In reviewing such plans, specifications and plot plans, the Board shall give consideration to conformity and harmony of exterior design with existing Buildings, Structures and other improvements in the Entire Tract, and to the location of existing Buildings, Structures and other improvements on the Building Site, giving due regard to the anticipated use thereof, as the same may affect adjoining Buildings, uses and operations, and as to location of such proposed Buildings, Structures and improvements with respect to topography, grade and finished ground elevation.

(a) After approval of the plans and specifications by the Board no deviation shall be made during construction which would materially change the scope of the improvements, and no changes in exterior quality or appearance of the improvements shall be made without written approval of the Board

3.02. The Board may require all or any part of the following information to be submitted to them in connection with their consideration of any plans, submittal or application:

(a) Architectural plans for the proposed building or buildings, which shall include outline specification designating materials and mechanical, electrical and structural systems, and samples of external colors.

(b) A site plan for traffic engineering analysis, showing the location and design of buildings, driveways, driveway intersections with streets, parking areas, loading areas, maneuvering areas and sidewalks designated.

(c) A grading plan and planting plan, including screen walls and fences for analysis of adequacy of visual screening, erosion control, drainage and landscape architectural design.

(d) A site plan showing utilities and utility easements.

(e) Plans for all signs to be erected, including details of materials, location, design, size, color and lighting.

(f) A description of proposed operation in sufficient detail to permit judgment (i) of the extent of any noise, odor, glare, vibration, smoke, dust, gases, hazard, radiation, radio-activity or liquid wastes that may be created; and (ii) as to whether or not the proposed operation includes only uses permitted under the terms of then existing zoning ordinances and this Declaration and Declarant Comprehensive plan and other laws and governmental regulations.

(g) Any other information as may be reasonably requested by the Board in order to insure compliance with the covenants contained herein.

3.03. The Board reserves the right to grant variances from the strict application of the provisions of these restrictions and impose other conditions and safeguards in the variances so granted, provided such variances are in keeping with the overall development of the Paola Industrial Park.

3.04. Neither The City of Paola, nor the members of the City Council, nor any Board member, employee or agent of any of them shall be liable to any Record Owner or tenant or to anyone else submitting plans for approval, or to any other action in connection with its or their duties hereunder, likewise, anyone so submitting plans when he or it becomes a Record Owner or tenant, agrees that he or it will not bring any action or suit to recover any damages against the Board, City of Paola and its governing body or any member, employee or agent of any of them, arising or in any way connected with this Declaration of the approval or failure to approve any plans submitted by anyone.

3.05. If, after the expiration of two years from the date of conveyance of any Building Site within the Entire Tract, any Record Owner (or anyone claiming under such Record Owner) shall not have construction of an acceptable and approved building upon such Building Site for the uses permitted hereunder, and thereafter, with diligence, prosecuted such construction in strict compliance with the provisions hereof, City of Paola may within a two-year period thereafter, at its option, require the Record Owner to reconvey the Building Site to the City, free and clear from all liens, charges, encumbrances, tenancy and other such title exceptions except those in existence at the time of such original conveyance, and at such time the City shall enter into possession of said Building Site. At any time the City may extend in writing, the time in which such Building may be commenced and/or completed. Such right to reconvey shall be an additional material consideration to the City for the conveyance of any Building Site. A notice of such right to reconvey or an agreement with respect to such right may be included in contracts for sale or in deeds by which the City conveys title, but the failure in any particular transaction so to include either the notice of the agreement or both shall not deprive the City of such right without specific recitation to such effect in such contracts and deeds.

3.06. During reasonable hours the Board's representatives shall have the right to enter upon and inspect any building, site or parcel and the improvements therein embraced for the purpose of ascertaining whether or not the provisions of these Restrictions have been or are being completed with and shall not be deemed guilty of trespass by reason of such entry.

ARTICLE 4

BUILDING LIMITATIONS

4.01. Except as hereinafter provided, no Building shall at any time be erected on a Building Site nearer than 50 feet to the right-of-way line of any street adjoining the same or nearer than 15 feet to any side boundary line or rear boundary line of such Building Site (the lines established by such setbacks of 50 feet and 15 feet, respectively, is herein called a Building Line). The area between the property lines and Building Lines is to be used for landscaped area, lawns, driveways, loading space and walks in accordance with other provisions of this Declaration. With the written approval of the Board, off-street parking may be permitted in required yards provided that appropriate landscaping areas are maintained and further provided that no parking shall be permitted within 20 feet of property lines adjoining a public street, or within 10 feet of other property lines. Incidental, low profile, structures such as sign standards, meter pits, fire hose houses, and similar accessory structures shall be of the same or comparable quality and design so as to blend harmoniously with the Buildings erected or permitted to be erected on Building Sites.

4.02. The construction material used may be reinforced concrete or masonry, structural steel, structural aluminum, glass, or treated wood. All elevations of the building shall

be designed in a consistent and coherent architectural manner. Exterior facings such as metal wall panels, masonry, glass, treated wood or other material shall be subject to the approval of the Board. Where there is a change in material, color, or texture along the exterior side of a building, the demarcation should occur a minimum of 20 feet on both adjacent sides of the building or to a natural dividing point established by the physical plan of the building as approved by the Board. Where concrete block masonry is used, it shall receive one coat of an approved masonry filler and two coats of paint. The block shall be laid either in a stack bond or a running bond using a figure block subject to the approval of the Board. All electrical and air conditioning structures including towers and air handling units shall be concealed by decorative screening materials or landscaping. All buildings must comply with the building code as it applies to the "Fire Limits" and any building materials allowed above may be used only for decorative purpose.

4.03. Parking and loading restrictions shall be as follows:

(a) No parking of automobiles, trucks, or other vehicles will be permitted on any public or private streets in the Entire Tract, and it will be the responsibility of each Record Owner to provide sufficient parking and loading facilities on its Building Site.

(b) No loading dock shall be erected fronting on any public street unless the front of such loading dock is set back at least 60 feet from the front wall of the Building facing said public street; and further provided that any exposed sides of a loading space so created shall be effectively screened by landscaping or other screening approved by the Board.

(c) All portions of any Building Site used for driveways, parking areas and loading areas shall be paved with a dust-free, all-weather surface and shall be kept in a good condition and state of repair. The criteria for acceptance of the screening materials shall be in uniformity with the exterior surfacing of the parent structure and adjoining structures, front or street side property line. The guest parking lot located within the front or street side yard or the employee parking lot or loading berth located within the side yard shall have effective visual screening not less than 5 feet in width and 3 feet high between the parking lot and the property line which may consist of landscaping, landscaping with earth mounds or fencing with landscaping unless a waiver is granted by the Board for a specific period of time.

(d) With respect to any Building devoted to industrial purposes and involving the frequent loading and unloading of products and materials at the Building Site on which such Building is erected, the Record Owner shall provide, or cause to be provided, off-street loading space on the basis of space for loading and unloading one truck for the first 10,000 square feet of Floor Area devoted to such industrial purposes and space for loading and unloading one additional truck for each succeeding 20,000 square feet of Floor Area devoted to such

industrial purposes. A truck loading space shall have a minimum horizontal width of eleven feet six inches, a minimum depth of sixty feet and a minimum vertical clearance of fourteen feet.

4.04. Landscaping restrictions and guidelines for maintenance of grounds and buildings are as follows:

(a) All areas between required Building Lines and property lines not used for drives, walks, parking and loading areas must be attractively landscaped and maintained. Weeds and undergrowth must be kept mowed on all other unimproved land areas. Exterior surfaces of Buildings, Structures and other improvements, as well as paved areas, must be kept in a good condition and state of repair and otherwise in conformity with the intent of the Restrictions to provide a modern and attractive business park.

(b) Building Sites shall be landscaped in accordance with a plan submitted to and approved in writing by the Board; and no tenant or owner shall occupy the Building or Structure until such plan together with adequate provisions for implementing the same, have been so approved. The plan shall include the use of conifers and tall evergreens, particularly in the screened areas defined in Article 4.03 (b) above, as well as in other areas of the site that require plantings. Owners are urged to also provide groupings of conifers and tall evergreens in areas between property lines and Building Lines along streets to provide year round screening in these area.

Minimum size of trees to be installed at the time of initial or replacement planting shall be as follows:

- Shade Trees - 3" calipers
- Flowering and ornamental trees - 1 1/2" calipers 5' - 6' high
- Conifers - 6' high
- Upright evergreens - 5' high

(c) It is the intent of the City that landscaping shall be provided in a manner and to an extent to properly compliment the building improvements on a site and to properly screen parking and loading areas. Initial planting, exclusive of sodding and seeding, shall be included at a cost or value of not less than 2% of the estimated cost of building and other improvements up to \$250,000; and 1% of the estimated cost over \$250,000 and less than \$500,000; and 1/2% for any cost or value over \$500,000.

(d) The landscape development, having been installed, shall be maintained by the Record Owner or tenant of the Building Site in a neat and adequate manner, which shall include the mowing of lawns, trimming of hedges, watering when needed, and

removal of weeds from planted areas on Record Owner's Building Sites and public rights-of-way adjacent thereto. Maintenance of the landscaping development shall include replacement of all plant material included in the approved landscaping plan, as well as replacement of any street trees on a Building Site originally provided by Declarant.

(e) The approved plan for landscaping the Building Site may not be altered without written approval by the Board.

(f) Each Record Owner and tenant shall keep its premises, buildings, improvements and appurtenances in a safe, sightly, clean, neat and wholesome condition, and shall comply in all respects with all governmental, health and police requirements. Each Record Owner and tenant shall remove at its own expense any rubbish or trash of any character which may accumulate on its property and shall keep unlandscaped areas mowed. Rubbish and trash shall not be disposed of on the premises by burning in open fires. Use of any incinerators shall only be with written approval of the Board, and must meet all Federal, State and Local standards for the construction and use of the same.

(g) In the event any Record Owner or tenant does not comply with the provisions of this Article, within 10 days after written notice by the Board, the Board and their representatives or employees shall have the right to enter on such Building Site and perform the work specified in such notice and the Record Owner or tenant shall pay the costs thereof upon demand. If the cost of such work is not paid within 10 days after demand is made therefor upon such Record Owner or tenant, it shall become a lien on such land the same as and enforceable to the extent provided for assessment in this Policy Resolution.

4.05. Outside storage restrictions shall be as follows:

(a) No outside storage of any type, including but not limited to materials, supplies, equipment, finished or semi-finished products, raw materials or articles of any nature shall be stored or permitted to remain on any Building Site outside of the Building or Buildings constructed thereon, including any type of trailers used for storage located thereon, without the written approval of the Board. Any permitted storage shall be screened and/or fenced in a manner so as to not be objectionable to any occupant of other Building Sites in the Entire Tract, and shall be continued only in accordance with the terms of the Board's approval.

(b) Facilities for storage of waste and rubbish shall be maintained in closed metal containers of type approved by the Board and in locations approved by the Board in writing.

(c) The bulk storage of any liquids on the outside of Buildings shall be permitted only in locations and in a manner as may be approved in writing by the Board.

4.06. No sign shall be erected, placed or otherwise installed upon a Building Site or affixed to a Building, Structure, or other improvement erected on a Building Site until the plans for such sign shall have been approved in writing by the Board. All signs, whether or not included or excluded from the definition of such term in Section 2.01 (m) hereof (except such Signs as may be wholly within a Building and not visible from outside thereof) shall be conservative and in good taste, shall be identification signs as distinguished from promotional signs or billboards, and shall comply with the general purposes of this Declaration as set forth in Section 2.01 (m) hereof. Flashing or moving signs shall be prohibited unless the same are conservative and in good taste, are for identification purposes as distinguished from promotional purposes, and shall comply with the general purposes of this Declaration as set forth in Section 2.01 (m) hereof.

4.07. The Declarant hereby reserves the right to acquire at no cost, easements deemed necessary for further utility development within the Paola Industrial Park subject to locating such easements within the required yards or at other locations agreeable to tenants. The Declarant will after the installation of said utilities return said easement areas used for utilities to the same level of improvement that existed prior to the installation of said utilities.

ARTICLE 5

REGULATION OF USES

5.01. Proposed uses of property at the Paola Industrial Park will be reviewed by the Board and the specific uses permitted will be determined by the Board. No change in the permitted use may be made without the approval and written consent of the Board.

5.02. No operation shall be conducted on the Entire Tract or any part thereof which results in the emission of noise, smoke, dust, dirt, fly ash or odor to an extent to be reasonably objectionable to any other Record Owner or occupant of other Building Sites in the Entire Tract.

5.03. No oil or gas drilling, oil development, mining or quarrying operations of any kind shall be permitted upon the Entire Tract, or any part thereof, nor shall oil wells, tanks, tunnels, mineral excavations or shafts be permitted upon the Entire Tract or any part thereof.

5.04. Operations and uses that are not specifically authorized by these restrictions may be permitted in a specific case if operational plans and specifications are submitted to and

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approved in writing by the Board. Approval and disapproval of such operational plans and specifications shall be based upon the effect of such operations or uses on other properties subject to these restrictions or upon the occupants thereof and Declarants Comprehensive Plan, but shall not be considered if involving fire or explosive hazard which shall endanger the property, improvements or employees of any other tenant or of the Paola Industrial Park. No activities involving the storage, utilization or manufacture of materials of products which decompose by detoxation shall be permitted.

ARTICLE 6

DURATION AND ENFORCEMENT

6.01. All covenants, conditions, restrictions and agreements contained herein are made for the benefit of each and every part and parcel of the property now or hereafter made subject to this declaration; and shall operate as covenants running with the land for the benefit of all other parcels.

6.02. The Paola Industrial Park Covenants and Restrictions shall continue and remain in full force and effect at all times with respect to all property and each party thereof, now or hereafter made subject thereto for as long as deemed necessary by the Board. The declaration or any provision thereof or any covenant, condition, or restriction contained herein may be prospectively terminated, modified, or amended as to the whole of said property or any portion thereof at any such time as the Board deems necessary or desirable. Subject to adoption by the Paola Governing Body.

6.03. This Resolution and the separate provisions thereof shall be construed and enforced in accordance with the laws of the State of Kansas.

Passed, approved and adopted this 4th day of March, 1997.

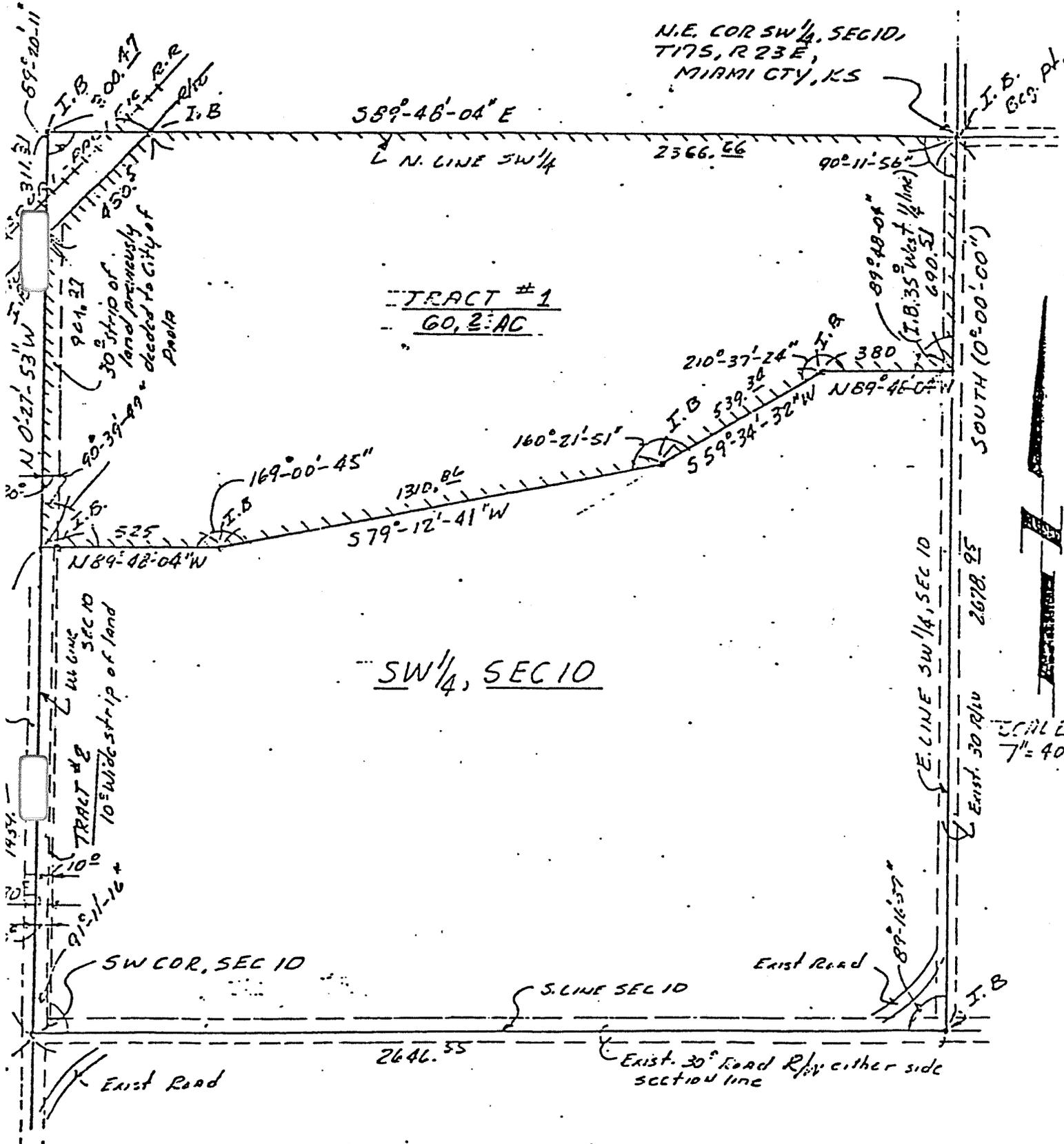
City of Paola, Kansas

By: 
Mayor

Attest:


City Clerk

N.E. COR SW 1/4, SEC 10,
T17S, R23E,
MIAMI CTY, KS



TRACT # 1
60.2 AC

SW 1/4, SEC 10

PLAT OF 60.2 ACRE TRACT & 10° STRIP OF LAND IN THE
SW 1/4, SEC 10, T17S, R23E, MIAMI COUNTY, KS

At the request of the City of Paola, Kansas, I, Clement F. Egger, Land Surveyor, State of Kansas, made a survey of a 60.2 Acre tract and one (1) 10 foot wide strip of land in the Southwest Quarter of Section 10, Township 17 South, Range 23 East, Miami County, Kansas. The purpose of the survey was to establish the boundaries and property corners as shown on the above plat and to recommend legal descriptions as follows:

Tract 1 - 60.2 Acre Tract

Beginning at the Northeast corner of the Southwest Quarter of Section 10, Township 17 South, Range 23 East, Miami County, Kansas; thence South 0 degrees 00 minutes 00 seconds along the East line of said Southwest Quarter a distance of 690.51 feet; thence North 89 degrees 48 minutes 04 seconds West parallel with the North line of said Southwest Quarter a distance of 380 feet; thence South 59 degrees 34 minutes 32 seconds West a distance of 539.34 feet; thence South 79 degrees 12 minutes 41 seconds West a distance of 1310.86 feet; thence North 89 degrees 48 minutes 04 seconds West parallel with the North line of said Southwest Quarter a distance of 525 feet to the West line of said Section 10; thence North 0 degrees 27 minutes 53 seconds West along the West line of said Section 10 a distance of 904.27 feet to the South right-of-way line of the Missouri Pacific Railroad; thence in a Northeasterly direction following the South right-of-way line of the Missouri Pacific Railroad a distance of 430.5 feet, more or less, to the North line of the Southwest Quarter of said Section 10; thence South 89 degrees 48 minutes 04 seconds East along the North line of the Southwest Quarter of said Section 10 a distance of 2366.66 feet to the place of beginning, except the West 30 feet thereof; enclosing 60.2 Acres, more or less; subject to all easements, restrictions, and reservations of record: All being a part of the Southwest Quarter of Section 10, Township 17 South, Range 23 East, Miami County, Kansas.

Tract 2 - 10 Foot Wide Strip of Land

The East 10 feet of the West 40 feet of that portion of the Southwest Quarter of Section 10, Township 17 South, Range 23 East, lying South of Tract 1 above described; subject to all easements, restrictions, and reservations of record: All being a part of the Southwest Quarter of Section 10, Township 17 South, Range 23 East, Miami County, Kansas.

Iron pins have been set at the property corners as shown on the above plat. This survey is true and correct to the best of my knowledge. A copy of this plat will be filed at the Register of Deed's Office at Paola, Kansas.

8/8/80
DATE

Clement F. Egger
CLEMENT F. EGGER, LAND SURVEYOR
STATE OF KANSAS

Attachment Four

Zoning Regulations

ARTICLE 03

USE REGULATIONS

DIVISION 03.000 PURPOSE

This Division's purpose is to regulate the land uses in each zoning district, including setting standards for limited and conditional uses, parking, loading, and signage related to specific uses.

DIVISION 03.100 USE REGULATIONS

All land uses or structures shall be permitted in districts only as indicated in this Division. No use prohibited in a district shall be permitted under any circumstances. The following symbols are used in Table 03.110.

1. **"Y"** indicates a **permitted use**, where the use is permitted as a matter of right subject to all performance standards.
2. **"N"** indicates a **prohibited use**.
3. **"L"** indicates a use permitted subject to **limited review**. The limited review determines whether the location, design, or other criteria of Division 03.300 have been met for the proposed site. Not all properties may meet these requirements, thus limiting the sites upon which the use may be built.
4. **"C"** indicates a use permitted only if a **conditional use** is approved per Section 21.220. The use must conform to the locational design, or other conditions of Division 03.200. Not all properties may meet these requirements, thus limiting the sites upon which the use may be built.

SECTION 03.110 USE TABLE

According to land use, Table 03.110 A. lists the type of permission in each district, parking requirements, and loading bay requirements. Table 03.110 B. lists the specific parking requirements for several general uses listed in Table 03.110 A. Limited and conditional use standards are contained in this Table and Division 03.300. Should a use not be identified in Table 03.110 or Article 23, refer to Section 21.320 interpretations. See Article 04 for additional standards.

TABLE 3.110 A. GENERAL USE TABLE

Permitted Land Use									Parking	Loading	Exterior Storage (% of Building Area)
Land Use	E	S	NC	SC	TA	D	BP	I			
Agricultural											
Agriculture	Y	Y	N	N	C	N	L	N	3 / du.	none	na.
Farmstead	Y	Y	N	N	N	N	N	N	3 / du.	none	na.
Intensive Agriculture	C	N	N	N	N	N	N	N	3 / du.	3 / ag. unit	na.
Clearing	L	L	L	L	L	L	L	L	none	none	na.
Nursery	Y	C	N	Y	Y	Y	C	N	1 / 250 sf sales space only	1 / 2 ac.	na.
Kennels and Commercial Stables	L	N	N	N	Y	N	N	N	1 / 333 sf. plus 1 per 3 stalls	1 / 40 stalls	na.
Residential											
Single-Family Detached	Y	Y	A1	N	Y	Y	C	N	3 / du.	none	na.
Equestrian	Y	N	A1	N	N	N	N	N	3 / du.	none	na.
Single-Family Cluster	Y	Y	A1	N	N	N	C	N	3 / du.	none	na.
Single-Family Attached	N	N	A1	N	Y	Y	N	N	2.25 / du.	none	na.
Guest House	C	C	A1	N	C	C	C	N			
Planned	Y	Y	A1	N	Y	Y	N	N	2.25 / du.	none	na.
Multi-Family	N	N	A1	L	L	L	N	N	2.25 / du.	none	na.
Commercial Apartment	N	N	A1	Y	Y	Y	N	N	1 / du.	none	na.
Manufactured Home Park	N	L	A1	N	L	N	N	N	3 / du.	none	na.
Group Home	Y	Y	A1	Y	Y	Y	N	N	3 / du.	none	na.
Institutional											
Assembly and Worship	N	L	C	Y	Y	Y	C	N	1 / 3 seats	1 / 40,000 sf.	na.
Institutional, Community	N	C	N	N	Y	C	N	N	See Table 03.110 B.	1	na.
Institutional, Neighborhood	C	C	C	Y	Y	C	N	N	See Table 03.110 B.	1 / 60,000 sf.	na.
Hospital	N	N	N	N	Y	N	Y	N	1 / bed	1 / 33,000 sf.	na.
College	N	N	N	N	Y	Y	Y	N	1 / 2 students	1 / 40,000 sf.	na.
Institutional, Residential	Y	Y	Y	Y	Y	Y	C	N	See Table 03.110 B.	1 / 25,000 sf.	na.
Protective Care	N	N	N	N	N	C	N	C	1 / 2 rooms	2 sf.	na.
Public Service	N	Y	C	Y	Y	Y	Y	Y	1 / employee + 1 stored vehicle	1 per loading bay	10%
Utilities, Local	L	Y	Y	Y	Y	Y	Y	Y	1 / 1,000 sf.	1 / 2,000 sf.	100%
Commercial											
Office	N	N	C	Y	Y	Y	Y	Y	See Table 03.110 B.	1 / 33,000	not permitted
Shopping Center	N	N	N	Y	Y	Y	N	N	1 / 200 sf.	1 / 25,000	5%
Commercial Retail	N	N	C	Y	Y	Y	L	N	See Table 03.110 B.	See Table 03.110 B.	5%
Home Furnishing & Appliances	N	N	C	N	Y	Y	Y	N	1 / 400 sf.	1 / 10,000	not permitted
Light Auto Services	N	N	C	Y	C	C	L	Y	See Table 03.110 B.	1 / 20,000	10% enclosed by 100% opaque fence
Services	N	N	C	Y	Y	Y	L	N	See Table 03.110 B.	1 / 33,000	not permitted
Drive-in Facility	N	N	N	L	L	L	L	N	See Table 03.110 B.	1 / 25,000	not permitted
Hotels and Motels	N	N	N	Y	Y	Y	Y	N	1 / room plus accessory use	2 / 40,000	not permitted
Boarding House	N	N	N	N	L	L	N	N	1/room plus 1	none	not permitted

TABLE 3.110 A. GENERAL USE TABLE

Permitted Land Use										Parking	Loading	Exterior Storage (% of Building Area)
Land Use	E	S	NC	SC	TA	D	BP	I				
Bed and Breakfast	C	C	C	Y	Y	C	N	N		1 / room	none	not permitted
Heavy Retail and Service	N	N	C	N	C	C	L	Y		See Table 03.110 B.	1.5 per bay	sales 200% repair 40%; See Section 3.312
Agricultural Support Services	N	N	N	N	L	L	L	Y		1 / 250	1.5 per bay	
Mixed Use	N	N	N	Y	Y	Y	N	N		See Section 06.322.	1 / 25,000	not permitted
Recreation and Amusement												
Outdoor Recreation	Y	Y	L	Y	Y	Y	N	N		See Table 03.110 B.	1	not permitted
Indoor Recreation	N	L	N	Y	Y	Y	N	N		See Table 03.110 B.	1	not permitted
Commercial Amusement, Outdoor	N	N	N	L	C	C	N	N		1 per player	none	not permitted
Commercial Amusement, Indoor	N	N	N	Y	Y	Y	N	N		See Table 03.110 B.	1	not permitted
Campgrounds	C	C	N	N	N	N	N	N		1 space + 3 / 50 spaces at office	1	not permitted
Resort	N	N	N	N	Y	N	Y	N		1.25 / room	1 / 33,000	not permitted
Home Uses												
Home Occupation	Y	Y	Y	N	Y	Y	N	N		See Residential.	None	not permitted
Day Care, Family	Y	Y	Y	N	Y	Y	N	N		4 / du.	None	not permitted
Industrial Uses												
Light Industry	C	N	N	N	C	C	Y	Y		1 / 500 + 1 vehicle	1 / 20,000 or 1 / bay	30% or more I district & up to 5,000 sq. ft. see Section 03.312
Heavy Industry	C	N	N	N	N	N	L	Y		See Table 03.110 B.	1 / 15,000 or 1.25 / bay	50%
Warehousing	C	N	N	N	C	N	Y	Y		1 / 2,000	1.5 / bay	20% I district only
Utilities, Community/Region	C	N	N	N	N	N	Y	Y		1 / 1,000	conditional	150% I district only
Extraction	N	N	N	N	N	N	C	N		1 vehicle + accessory	1 vehicle	
Recycling or Storage	C	N	N	N	N	N	N	C		2 / 1,000	1.25 / bay	20% metals only enclosed
Disposal	C	N	N	N	N	N	N	N		1 vehicle	1 vehicle	equipment only
Conditional/Miscellaneous Uses												
Airports	N	N	N	N	N	N	C	N		Special study, see Section 06.321.	special study	10% excluding aircraft
Crematories	N	N	C	N	C	N	C	C				
Commercial Communications Towers	L	L	L	L	L	L	L	L		2 per tower	1	not permitted
Dangerous Animals (includes zoos)	C	N	N	N	N	N	N	N				
Pet Grooming Services	L	N	N	N	Y	C	N	N		4 spaces/1000 sq. ft.	none	not permitted
Domestic Exotic/Farm Animals as Pets	L	L	L	N	N	N	L	N				
Temporary Uses												
Christmas Tree Sales	L	L	L	Y	Y	Y	N	N		site review	none	na.
Contractors Office	Y	Y	Y	Y	Y	Y	Y	Y		1 / 200 sf.	none	not permitted
Outdoor Sales	N	N	N	N	L	L	N	N		none	none	not permitted
Public Interest Events	L	L	L	L	L	L	L	L		1 / 3 attendee	1 / vehicle	not permitted
Special Events	L	L	L	L	L	L	L	L		1 / 3 attendee	1 / vehicle	not permitted
Model Homes/Sale Office	Y	Y	Y	Y	Y	Y	Y	Y		4 / model	none	not permitted
Farmstand	Y	Y	Y	N	Y	Y	N	N		8 spaces	none	na.

TABLE 3.110 A. GENERAL USE TABLE												
Permitted Land Use									Parking	Loading	Exterior Storage (% of Building Area)	
Land Use	E	S	NC	SC	TA	D	BP	I				
Concrete/Asphalt Batch Plant	L	L	N	N	L	N	L	L	Special study, see Section 06.321.	1 / vehicle	na.	
Truck Load Sale	N	N	N	N	L	N	N	N	Special study, see Section 06.321.	1/truck	na.	

A1 - See Table 3.3110 A1

Chart Amendments:

- Ordinance 2688, 10/28/97
- Ordinance 2724, 06/02/99
- Ordinance 2764, 01/23/01
- Ordinance 2772, 02/27/02
- Ordinance 2783, 08/21/01
- Ordinance 2789, 11/27/01
- Ordinance 2799, 06/11/02
- Ordinance 2845, 03/10/04
- Ordinance 2884, 07/26/05
- Ordinance 2918, 05/23/06
- Ordinance 2969, 03/27/07

Table 3.3110 A1. NC-R District Residential Uses

Residential	NC-R1	NC-R2	NC-R3	Parking	Loading	Exterior Storage (% of Building Area)
Single-Family Detached	Y	Y	Y	3/du.	none	na.
Equestrian	N	N	N	3/du.	none	na.
Single-Family Cluster	N	N	N	3/du.	none	na.
Single-Family Attached	N	C	C	2.25/du.	none	na.
Guest House	C	C	C			
Planned	N	N	N	2.25/du.	none	na.
Multi-Family	N	N	C	2.25/du.	none	na.
Commercial Apartment	N	N	N	1/du.	none	na.
Manufactured Home Park	N	N	N	3/du.	none	na.
Group Home	Y	Y	Y	3/du.	none	na.

**Table 03.110 B.
OFF-STREET PARKING AND LOADING STANDARDS FOR SPECIFIC USES**

Uses	Parking Spaces Required	
	per 1,000 sf. of Floor Area	Other Standard
PARKING STANDARDS		
Institutional: Community, Neighborhood, and Residential		
Auditorium, public	--	1 per 3 seats
Church	--	1 per 3 seats
Clubs & Associations (no food service)	8.0	--
Fire Station		4 per vehicle bay
Library or Museum	3.5	plus bus spaces, calculate auditorium separately at 0.75 rate
Nursing Homes	--	0.33 per room
Schools: Elementary & Junior High	--	2 per classroom
Schools: Senior High	--	0.25 per individual
Trade School	--	1.1 per student
Group Homes, Institutional, Residential, Monasteries & Convents	--	1 per bedroom
Rooming & Boarding Houses	--	1.5 per lodger
Police Station	4.0	--
Post Office	--	6 per 1,000 sf. service area and 1 per vehicle
Commercial Uses: Office		
General	3.5	--
Government offices	4.0	--
Medical	4.5	--
Bank/Financial	4.5	--
Commercial Uses: Commercial Retail		
General	4.0	--
Shopping Center	4.5	--
Retail, Freestanding	4.0	--
Furniture & Carpet Stores	2.5	--
Hardware, Paint & Home Improvement	4.0	--
Commercial Uses: Light Auto Service		

**Table 03.110 B.
OFF-STREET PARKING AND LOADING STANDARDS FOR SPECIFIC USES**

Uses	Parking Spaces Required	
	per 1,000 sf. of Floor Area	Other Standard
General	1.5	or 4 per bay, whichever is greater
Carwashes (single car, automatic bay)	2.0	plus 6 stacking spaces per bay and 1 drying
Carwashes (multiple car, automatic bay)	4.0	plus 12 stacking spaces per bay and 2 drying
Carwash (self wash bay)	--	3 per bay
Gas Station		1 per pump station
Commercial Uses: Services		
Barber Shops	4.0	--
Beauty Shop	5.0	--
Commercial Laundry & Dry Cleaner	3.0	--
Funeral Homes	6.0	--
Laundromat	--	0.8 space per washer/dryer
Restaurants	9.0	
All Others	2.5	plus 1 per employee and 1 for each company vehicle
Commercial Uses: Drive-in Facility		
Restaurants w/Drive-in Window(s)	14.0	plus 5 stacking spaces per window
Banking Facilities w/Drive-in Window(s)	4.5	plus 5 stacking spaces per window
Other w/Drive-in Window(s)	5.0	plus 3 stacking spaces per window
Commercial Uses: Commercial Lodging		
Convention Center w/Lodging	--	1.2 per lodging room; if meeting space provided, 10 spaces/1000 sf.
Non-Convention Center Lodging	--	1 per guest room
Bed & Breakfast	--	1 per room including management spaces
Campgrounds	--	1 per travel trailer space
Commercial Uses: Heavy Retail/Service		
General	4.0	--
Auto Sales	15.0	--
Building Materials	2.0	--
Vehicle Repair/Service	1.0	5 per bay
Recreation and Amusement Uses: Outdoor Recreational		
Camps, Day or Youth	--	1 per employee, plus bus

**Table 03.110 B.
OFF-STREET PARKING AND LOADING STANDARDS FOR SPECIFIC USES**

Uses	Parking Spaces Required	
	per 1,000 sf. of Floor Area	Other Standard
Golf Course	--	3 per hole
Golf Driving Range or Rifle Range	--	1.25 per station
Parks, Playground	--	1 per 4,000 sf. of area
Equestrian Facilities	--	1 per 4 stalls, plus 1 per 2,000 sf. of riding area
Swimming Pool	--	1 per 400 sf. pool surface area
Tennis Courts	--	3 per court
Athletic Fields	--	1 per 4 feet of bleacher area or 30 per field, whichever is greater
All Other Active	--	1 per 10,000 sf.
All Other Passive	--	1 per acre; areas more than 50 acres: 1 per 3 acres over 50
Recreation and Amusement Uses: Indoor Recreational		
Swimming Pool	--	2 per 200 sf. pool, plus 1 per employee
Tennis/Racquetball/Handball	1.0	--
Community Center	4.0	--
All Others	4.5	--
Recreation and Amusement Uses: Outdoor Commercial Amusement		
General	--	1 per 3 seats or 1.25 per playing station, whichever is greater
Campgrounds	--	1 per space, plus 3 per 50 spaces at office
Outdoor Arenas	--	1 per 3 seats or per 6 ft of bench length
Recreation and Amusement Uses: Indoor Commercial Amusement		
General	6.0	--
Amusement Parks	--	special study
Bowling Alley/Pool Rooms	--	5 per lane, 2 per pool/billiard table
Indoor Arenas	--	1 per 3 seats, or 1 per 30 sf. of floor area used for seating, or 1 per 6 ft of bench length, whichever is appropriate
Skating Rinks	--	1 per 100 ft. surface
Theaters/Assembly Rooms	--	1 per 3 seats
Industrial Uses: Heavy Industry		
Heavy Industry	2.5	plus 1 per vehicle
Trucking (no loading or warehousing)	3.0	plus 1 per vehicle operated from site

**Table 03.110 B.
OFF-STREET PARKING AND LOADING STANDARDS FOR SPECIFIC USES**

Uses	Parking Spaces Required	
	per 1,000 sf. of Floor Area	Other Standard
Junkyard	--	1 per 2,000 sf. storage plus 1 per vehicle
LOADING STANDARDS		
Commercial Uses: Commercial Retail		
Paint, Glass, Wallpaper, Hardware	--	1 per 25,000
General Merchandise	--	1 per 25,000
Food	--	1 per 15,000
Apparel and Accessory	--	1 per 25,000
Home Furnishings	--	1 per 25,000
Consumer Electronics	--	1 per 15,000
Miscellaneous Retail		
Art	--	1 per 25,000
Gifts	--	1 per 25,000
Sporting Goods	--	1 per 25,000
Drug	--	1 per 25,000
Liquor	--	1 per 5,000
Books	--	1 per 25,000
Toys	--	1 per 25,000
Camera	--	none
Garden Center	--	1 per 25,000
Video Rental	--	none
Movie Theater	--	none

DIVISION 03.200 INDIVIDUAL USE STANDARDS

This Division contains standards that apply to uses in all districts.

SECTION 03.205 ACCESSORY USES, AGRICULTURAL

All agricultural accessory uses shall be used exclusively for agricultural purposes.

A. General.

1. Agricultural accessory uses shall be allowed on property comprised of 20 or more acres used exclusively for agricultural purposes.
2. Accessory structures must meet the building setback of the applicable zoning district.
3. Street yard plantings (1 plant unit per 100 lineal feet of street frontage) shall be required where an accessory structure is built within 200 feet of any roadway.
4. Corrals shall be exempt from yard requirements.

B. Outdoor Storage. Outdoor storage is prohibited in all required yards (setbacks).

C. Fences. Fences, including barbed wire, shall be permitted along all streets.

SECTION 03.210 ACCESSORY USES, RESIDENTIAL

Residential uses may have accessory buildings provided they conform to the following standards.

A. General. Unless specified in Subsections B. and C., all accessory structures shall meet the following:

1. Freestanding accessory structures shall not be permitted in front of the principal structure or within the front yard.
2. Freestanding structures shall not be located in side yards.
3. Freestanding structures may be located in the rear yard provided:
 - a. A single-family lot less than ten thousand (10,000) square feet shall have a setback from the rear and side property lines of at least five (5) feet. For lotline and village house types, the Planning Commission may waive the side yard setback. (Ordinance 2734, 1/11/00)
 - b. A single-family lot between ten thousand (10,000) square feet and one (1) acre shall have a setback from the rear and side property lines of at least ten (10) feet. (Ordinance 2734, 1/11/00)
 - c. A single-family lot one (1) acre or more shall have a setback from the rear and side property lines of at least twenty-five (25) feet. (Ordinance 2734, 1/11/00) The Zoning Administrator may approve unique setbacks to blend with existing nearby structures but shall not reduce the setbacks to less than ten (10) feet. (Ordinance 2884, 7/26/05)
 - d. For attached units, freestanding accessory structures shall be permitted only as provided in 4. below. Walled units, patio houses, and atrium houses shall contain all accessory structures within their walls.
4. For multi-family or attached housing, where freestanding structures must be accessible from private roads and fire lanes, their location shall be approved in the site plan review process to ensure essential access is safe and the structures do not create a nuisance to adjoining properties.
5. Except as may be specifically permitted in B. and G.. below, no freestanding structure shall exceed thirty (30) percent of the floor area of the principle structure.

B. Detached Garages and Storage/Utility Sheds.

1. Setbacks and size.

	Minimum Setback	Maximum Size and Height
<p>(1) Lots 12,000 sq. ft. or smaller</p> <p>(2) Lots from 12,001 sq. ft. to 3 acres</p>	<p>Must comply with Section 03.210 A.</p>	<p>(1) Maximum size shall be 8.5% of the total lot area for lots 12,000 sq. ft. or less.</p> <p>(2) Maximum size is 1020 sq. ft. plus 0.75% of the total lot area for lots from 12,000 sq. ft to 3 acres.</p> <p>Combined square footage of all structures on the property shall not cover more than 70% of the lot area. The structure shall be equal or less in height than the principle structure. (Ordinance 2893 08/23/05)</p>
<p>Lots greater than 3 acres</p>	<p>Must comply with Table 4.110A</p>	<p>No limit</p>

2. Building materials. For structures new greater than 120 square feet, the following standards apply (Ordinance 2824, 01/28/03):

	Building Materials
<p>Lots 1 acre or smaller</p>	<p>Shall be similar to or compatible with the design and construction of the main building. The exterior building materials and colors shall be similar to the main building or shall be commonly associated with residential construction.</p>
<p>Lots greater than 1 acre</p>	<p>Shall not be constructed of scrap materials.</p>

(Ordinance 2799, 06/11/02)

3. Existing accessory structures. Existing structures may be repaired or remodeled as long as the repairs do not exceed 50% of the fair market value of the structure. Existing stick built structures are exempt from the building material requirements in section 03.210 B.2., except no building shall be repaired or remodeled with scrap materials. (Ordinance 2824, 01/28/03).

C. Fences. Fences, except for walls on patio and atrium units (Table 08.141) may be permitted to enclose rear yards subject to the following.

1. **General.** All fences shall be constructed of materials expressly designed for fences. No hog-wire fences or fences made of discarded material shall be permitted. Fences in the front yard shall not exceed four (4) feet in height and shall be constructed of decorative materials (i.e. picket, wrought iron, split rail, etc.). Chain link is not considered decorative material. No fence shall exceed six (6) feet in height.
2. **Developments platted after November 18, 1997.** Fences along streets (front, rear, or side yards - see Figure 03.210) shall be permitted only if specified in the landscaping plan and final plat. The fence design along street frontages shall ensure uniform appearance.
3. **Chain link fences.** No chain link fence shall exceed four (4) feet in height. Chain link fences are prohibited in the front yard. For street yards on corner lots, chain link fence setbacks are as shown in Figure 03.210 D.1. Chain link fences with inserts for opacity are prohibited.

(Ordinance 2714, 12/8/98)

- D. **Satellite Dish or Antenna.** Satellite dishes or antennas over three (3) feet in diameter shall be mounted on the ground in the rear yard. These dishes shall be screened from view with an evergreen hedge or shrubs, and understory trees to their rear. The dish shall be located so that the screening protects neighboring homes. Evergreen trees shall be used to block other views from neighboring homes to the dish's front where plantings cannot be placed close to the dish. Figure 03.210 E. illustrates the type of planting required. Staff shall, upon submission of a site plan, approve the landscaping that meets this requirement.
- E. **Storage of Boats, Recreational Vehicles, or Trucks.** No boats, recreational vehicles (RVs), trailers with cars or other vehicles, or commercial trucks shall be stored in the driveway or in front of the house. Such vehicles shall only be permitted in rear yards provided they meet the setback requirements for a storage shed. No vehicle greater than thirty (30) feet shall be permitted on lots of less than two (2) acres. Boats or RVs of up to forty-five (45) feet shall be permitted on lots greater than two (2) acres.
- F. **Private Stables.** Stables are permitted on lots over three (3) acres, in equestrian subdivisions, and on lots of record existing as of this Ordinance's adoption date which legally had stables located on them. All stables shall conform to the following.
1. The stable shall be for the owner's private use only. No horses owned by others shall be permitted to be boarded. Such a use would become a commercial stable.
 2. Stables shall not exceed three thousand five hundred (3,500) square feet. Larger stables may be permitted as a Conditional Use of the property.
 3. Stables shall have a setback of one hundred (100) feet from property lines. No corral or riding area shall be permitted within twenty-five (25) feet of a property line, except that a trail may connect to an off-lot riding trail.

(Ordinance 2734, 01/11/00)

SECTION 03.211 ACCESSORY USES, NONRESIDENTIAL

Nonresidential uses may have a variety of accessory uses within the principle structure or in separate structures, provided they meet the following standards.

- A. **Uses.** All uses not permitted in the district shall be prohibited, except where:

1. They constitute less than fifteen (15) percent of the total floor area; and
 2. The use is essential to (excluding crematories), or traditionally conducted in association with (excluding crematories), the principal use which is a permitted, limited, or approved conditional use; and
 3. Except in the BP District, industrial uses shall not be permitted under any condition.
- B. **General.** No uses or structures shall be within the required yards. Except for loading and storage, the accessory uses' organization or placement shall be at the landowner's discretion.
- C. **Fences.** Hazardous utilities or other uses requiring fencing, for safety or liability reasons or to prevent access, shall meet the following additional standards.
1. A hedge shall be required around the fenced area where a metal mesh fence is used. The amount of shrubs required shall be installed at four (4) feet on center.
 2. If barbed wire is necessary, a double row of shrubs shall be planted, each row at three (3) foot on center and maintained at the fence height.
 3. If razor wire or concertina wire is to be used, a metal and/or masonry decorative fence (with approval by the Planning Commission) shall be erected fifteen (15) feet outside the wire fence and surrounded by a two-tenths (0.2) opacity bufferyard.
 4. Chain link fences are prohibited except in the I district and for school and day care center playgrounds. Opacity inserts are permitted only in the I district. Location of fences for playgrounds in residential areas shall comply as nearly as practical to Figure 03.210 D.1. The Planning Commission shall approve the location of chain link fences.
- D. **Loading and Truck Access.** Where loading and truck access is in a street yard, in a yard between residential uses or vacant land that can only be residentially used, the area shall be enclosed as indicated in Figure 03.211 D.
- E. **Outdoor storage.** Outdoor storage shall be prohibited except as indicated in Table 03.110A. All exterior or outdoor storage shall be enclosed by a wall or opaque fence of sufficient height to screen the stored materials from view. If a fence rather than a wall is used then shrubs shall be planted at three (3) foot on center around the periphery. Where one industrial district abuts another industrial district, no wall or fence shall be required.
- F. **Heating, Ventilation, Air Conditioning, Utility Meters and Vaults, and other similar appurtenances.** Where HVAC, utility meters and vaults, and other similar appurtenances are located, the area shall be fully enclosed architecturally or with a wood or masonry fence or a buffer with an opacity of 1.00.

SECTION 03.212 ACCESSORY WASTE OR TRASH STORAGE

Where dumpsters or common waste storage facilities are used in residential developments or nonresidential developments, the area where a dumpster and/or garbage can is stored shall be fully enclosed with a wood or masonry fence (or other durable low maintenance materials approved by the Planning Commission) or berms. The gates shall be kept closed. The area shall be landscaped as indicated in Figure 03.212.

SECTION 03.213 MIXED USES

All mixed uses shall meet the following requirements

- A. Except as provided in B. below, mixed use buildings shall have a minimum of twenty-five (25) percent residential floor area.
- B. A mixed use building, or a group of buildings in a mixed use development, oriented to a pedestrian precinct, may have the minimum residential component reduced to fifteen (15) percent where a major portion of the floor area is a large public structure, such as a museum or a hotel and convention center, that occupies at least forty (40) percent of the total floor area.
- C. Residential uses shall provide outdoor areas greater than or equal to one hundred twenty (120) square feet per unit, or the equivalent using one or a combination of the following methods:
 - 1. Balconies or roof gardens; and/or
 - 2. Parks or parkways with a minimum of twenty thousand (20,000) square feet of lawn area located within the development; and/or
 - 3. Paved pedestrian precincts, which may count for no more than twenty-five (25) percent of the requirement.

DIVISION 03.300 LIMITED AND CONDITIONAL USES

This Division describes the standards governing individual limited and conditional uses, including: common standards for buffering, location, bulk, and scale; standards of an environmental nature that apply to open space uses; and standards not easily incorporated into Table 03.110 A. Section 03.310 describes the different categories used in Table 03.110 A. Sections 03.311 through 03.340 describe individual limited or conditional uses, or standards that vary from district to district, that could not be summarized in Table 03.110 A. All limited or conditional uses shall complete a site plan review process so that the manner by which the standards of this Division are met can be reviewed. If the use is contained in a subdivision, the lots for such uses shall be so designated.

SECTION 03.310 BUFFERING, LOCATION, BULK, AND SCALE STANDARDS

Table 03.110 A. provides standards that increase the degree of buffering, govern the locations, and reduce the bulk or scale of limited or conditional uses. The meaning of the different categories contained in the Table is established as follows:

- A. **Location.** This column refers to the bufferyard location if it is different than normal district boundary bufferyards. "All" indicates the entire property is surrounded. Other designations set specific locations on site or uses to be buffered.
- B. **Increased Width/Opacity.** This column refers to the amount the bufferyard opacity required in Table 04.110 A. shall be increased. The use is responsible for the increased bufferyard. In some cases, a distance is to be added to the bufferyard width regardless of the options selected in Section 13.140 or 13.141.

- C. **Fence.** The use shall provide a fence of certain height within the bufferyard. The fence is to be added to the buffer option in Section 13.140 or 13.141. Where a fence is already required, the developer shall use an option that does not require a fence and add the fence.
- D. **Uses Separated.** This column lists uses from which the limited or conditional use is to be separated. Residential, religious institutions, and schools are typical protected uses.
- E. **Spacing.** The use shall be separated from protected uses by a minimum distance.
- F. **Minimum Spacing.** This requires a minimum distance between the next similar use. This requirement prohibits certain uses from concentrating in any given area. The distance includes uses located outside the zoning district boundary. Some uses tend to cluster at intersections. This marketing practice is appropriate; therefore, a provision has been made to permit such clustering. Where "int" is found after the spacing distance in the column, uses may locate at any of the intersection corners. However, the intersection where these uses exist must be separated by the specified distance.
- G. **Minimum Site Area.** The use must have a certain minimum site area. In several cases, this column has also been used to indicate a maximum site size or a range of minimum and maximum sizes.
- H. **Minimum Access.** The use may be built only where it has adequate frontage on a street of a certain type -- arterial, collector, or nonresidential local street.
- I. **Maximum Size.** This standard limits the use's size to less than that permitted in Table 04.110 A.
- J. **Maximum Height.** This standard sets a limit relative to the building's maximum height. An exception is granted for chimneys, steeples, cupolas, and antennas, provided they occupy no more than seven (7) percent of the roof area.
- K. **Other.** This column contains short requirements and/or references to other Sections where specific standards are found.

SECTION 03.311 DAY CARE CENTERS

The standards for conditional use of day care centers are as follows:

- A. Outside play areas shall be fenced.
- B. The day care provider shall be licensed by the State of Kansas.
- C. The maximum number of children or adults allowed will be determined as part of the CUP. Any increase in the number of children or adults shall require a new CUP.
- D. Prior to the approval of a day care center, location for the center shall be inspected for compliance with any applicable building and/or fire codes. If any deficiencies are found, they shall be corrected prior to the Planning Commission's recommendation to the City Council.

- E. The first conditional use permit shall be valid for a maximum of one year from the date of approval. The first renewal of the conditional use permit may be approved for three years. Subsequent renewals may be approved for up to five years. Renewals are subject to the publication, notification, and public hearing requirements of the initial approval.
- F. Such other conditions, as determined by the Planning Commission, to be necessary to protect the public health, safety, and welfare.

SECTION 03.312 HEAVY RETAIL AND SERVICE & LIGHT INDUSTRIAL USES

An increase in the maximum area for outdoor sales for Heavy Retail and Service or for the storage for Light Industrial in the TA district may be approved by the Planning Commission based upon the following (Ordinance 2845, 03/10/04):

- A. Compatibility with neighboring uses.
- B. Lighting shall be cut-off fixtures.
- C. Buffering and screening that will lessen the visual impact of large lot sales.
- D. A bufferyard of 0.4 opacity shall be provided for all storage areas. The fence height shall screen activities or be 8' in height, whichever is less. (Ordinance 2824, 01/28/03)
- E. In the BP district, this use shall take access from interior roads. (Ordinance 2824, 01/28/03)

SECTION 03.313 SINGLE FAMILY RESIDENTIAL

- A. Single family residential uses in the Business Park district shall meet one of the following standards:

- 1. The single-family residence shall have been constructed on or before January 1, 1998.
- 2. The owner shall hold a valid building permit for new construction that was issued prior to January 1, 1998.

- B. Single family residences in the BP district that qualify for a conditional use permit shall not be considered nonconformities under Article 9 of the Land Development Ordinance.

(Ordinance 2724, 6/22/99)

- C. Single family attached residential uses in the NC-R2 and NC-R3 district shall only be permitted provided:

- 1. A site plan is submitted and approved by the Planning Commission and the City Council.
- 2. Any conditions which the Planning Commission and the City Council deem necessary to ensure the compatibility with the surrounding uses in terms of scale and adherence to the traditional character of Paola are met. (Ordinance 2957, 10/23/07)

SECTION 03.314 GUEST HOUSE

- A. The guest house shall have a minimum living area of 500 square feet. The guest house shall not exceed 30% the floor area of the principal structure.
- B. The primary structure shall be owner occupied.
- C. The area where the guest house is located shall not be divided off into a new lot of record.
- D. A minimum of one off-street parking space is required. The Planning Commission may permit on-street parking to be substituted upon determining that the street can accommodate the parking and the provision of off street parking would be detrimental to the area’s appearance.
- E. The guest house shall comply with building code requirements.
- F. The combined square footage of the principal structure, guest house, detached garage, and storage/utility shed shall not exceed the maximum building coverage in Table 04.110A Use and Lot Standards. Where no maximum building coverage is provided, the combined structures shall not cover more than 70% of the lot area.

The Planning Commission may establish other conditions that protect the public health, safety, and welfare.

(Ordinance 2789, 11/27/01)

SECTION 03.315 AGRICULTURAL SUPPORT SERVICES

- A. The applicant must provide a plan showing where outdoor sales and storage will be located.
- B. Equipment may be stored or displayed outside a building, but shall not encroach on parking setbacks. All equipment on display shall be in working condition.
- C. Open space and parking requirements shall be met.
- D. Merchandise other than equipment shall be stored behind a fully opaque fence, except for special outdoor sales. Special outdoor sales, including garden materials sales, are subject to Section 03.335 “Outdoor Sales”.
- E. Service and maintenance activities shall be contained inside the building.

(Ordinance 2799, 06/11/02)

- F. The maximum building height allowed is 25’. (Ordinance 2824, 01/28/03)
- G. No grain or other product storage is allowed. (Ordinance 2824, 01/28/03)
- H. Minimum lot size for a large animal clinic in the TA and BP districts is three acres (Ordinance 2824, 01/28/03)

- I. In the D district, this use is limited to small animals with no outdoor activities (Ordinance 2824, 01/28/03)

SECTION 03.316 KENNELS AND STABLES

- A. A bufferyard shall be required when located within 1000 feet of a residential use. When adjacent to a residential use, the bufferyard opacity shall be increased by 15 feet and a 6' fence provided.
- B. Dogs shall be in an enclosed building at night.

(Ordinance 2824, 01/28/03)

SECTION 03.317 PET GROOMING SERVICES

Pet Grooming Services shall meet the following standards:

- A. Adequate ventilation shall be provided between adjoining structures.
- B. Prior to receiving a permit, the applicant must submit copies of approvals from all regulatory agencies having jurisdiction over pet grooming services.
- C. All pet waste shall be disposed of in an approved manner.
- D. Noise levels shall be limited so as not to disturb surrounding properties.
- E. All chemicals used in the grooming process shall be non-destructive to the public sanitary sewer system. (Ordinance 2918, 05/23/06)

SECTION 03.319 MANUFACTURED HOME PARK

- A. 0.4 opacity bufferyard shall be required on all property borders.
- B. 2,640 feet spacing must be provided between manufactured home park communities.
- C. The minimum site area in any district is 15 acres. Minimum site area may be increased in some zoning districts (see Table 4.110 A.).

(Ordinance 2824, 01/28/03)

SECTION 03.320 CLEARING

Clearing includes earth movement, mining, clear cutting or selective harvest for lumber purposes, or burning and shall require a zoning permit. Such permits shall be issued only under one of the following conditions.

- A. As part of a site plan or subdivision with an approved resource protection plan; or
- B. When a resource analysis is submitted along with a resource protection plan demonstrating that this Ordinance's standards are met, and a record of the property's original conditions is filed with the Zoning Officer.

SECTION 03.321 MULTI-FAMILY RESIDENTIAL

Multi-family residential uses shall meet the following standards.

- A. In the TA District, multi-family residential uses shall only be permitted with a minimum spacing of 1,000 feet between multi-family buildings. No more than 40 dwelling units shall be constructed in any development and shall be no more than two (2) stories tall.
- B. In the D District, multi-family residential uses shall only be permitted with a minimum spacing of 200 feet between multi-family buildings. No more than 20 dwelling units shall be constructed in any development.
- C. In the TA District, multi-family residential buildings that exist prior to January 1, 1998, may be reconstructed if damaged more than 50% of fair market value through fire, explosion, act of God or the public enemy. The intent is to allow the reconstruction of the same number of units that existed on January 1, 1998 notwithstanding any limits on the maximum number of units in a multi-family residential development or with respect to the minimum spacing required between multi-family residential developments. However, the reconstructed units shall conform with all other regulations for buildings in the district in which it is located. (Ordinance 2725, 7/27/99)
- D. In the NC-R3 districts, multi-family uses shall only be permitted provided:
 - 1. A site plan is submitted and approved by the Planning Commission and the City Council.
 - 2. Any conditions which the Planning Commission or the City Council deem necessary to ensure the compatibility with the surrounding uses in terms of scale and adherence to the traditional character of Paola are met. (Ordinance 2957, 10/23/07)

SECTION 03.322 ASSEMBLY AND WORSHIP

The standards for conditional use and limited uses vary by district.

- A. Estate (E) District. The intent of the estate district is to insure that lots used for assembly and worship are large enough to maintain the desired community character.
- B. Neighborhood Conservation (NC) District. The conditional use should be evaluated based upon whether the use is compatible with the site given its location in an established part of town where traffic is strongly correlated with existing land use patterns. The degree to which activities associated with the use significantly increase traffic should be considered in determining whether the proposed use is suitable for the site.
- C. Business Park (BP) District. This use should not be allowed in high visibility areas of the business park, since the purpose of the district is provide jobs in high access locations. In general, this use should be limited to temporary occupancy until a permanent facility can be built. A maximum of two (2) percent of a BP development should be permitted for this use.
- D. Access shall be taken from a collector or arterial street. (Ordinance 2824, 01/28/03)

SECTION 03.323 INSTITUTIONAL, COMMUNITY

The lot size varies with the proposed use. Schools shall have a minimum of 10 acres. A library would require a minimum of two acres.

SECTION 03.324 PROTECTIVE CARE

All protective care facilities shall have an emergency plan filed with the police, emergency services, and disaster and emergency agency indicating that these facilities have plans ensuring against any form of emergency to protect the adjoining communities. The following standards shall apply to protective care facilities.

- A. In the D District, this use shall only be permitted as an accessory to a building containing government offices or police offices.
- B. In the I District, this use shall be permitted provided it is separated from residential by at least three hundred (300) feet.
- C. A 0.3 opacity bufferyard, including a 10' fence, shall be provided when adjacent to a residential use.
- D. At least 300 feet of separation must be provided between a protective care use and any day care, residential, school, or institutional residential use.
- E. The minimum site area in any district is one (1) acre.
- F. No more than 25 residents per acre allowed.

(Items C-F, Ordinance 2824, 01/28/03)

SECTION 03.325 UTILITIES, LOCAL

- A. In the E District, utility agencies shall submit service radii or other locational criteria that demonstrate the need to place facilities in this district. The facilities shall be designed to serve that district and surrounding, more rural zoning districts but not adjoining, more intensely zoned districts.
- B. All boundaries shall have a 0.3 opacity bufferyard. (Ordinance 2824, 01/28/03)

SECTION 03.326 COMMERCIAL RETAIL

Such lots shall be designated in the plat of subdivision for these uses. A site plan review shall be required to ensure such uses do not create strip development on major roads.

- A. In the BP district, this use shall take access from the entrance road to the business park. The use shall be located along the entrance and prior to the first road intersection in the business park.
- B. This use is limited to the ground floor of multi-story office buildings.

(Items A and B, Ordinance 2824, 01/28/03)

SECTION 03.327 LIGHT AUTO SERVICES

This use has different standards in the TA, D, and BP Districts.

- A. Thoroughfare Access (TA) District: The intent is to protect residential areas, to insure that the use cannot locate on minor streets, and to buffer adjoining streets and land uses from the Light Auto Service.
1. Lighting shall be all cut-off fixtures located to minimize impact on adjoining residential areas.
 2. A parking buffer shall be required as defined in Table 13.140. (Ordinance 2764, 01/23/01)
 3. An 8' fence shall be provided as a buffer between this use and any residential use.
 4. This use shall take access off of a street classified as a collector or arterial. (Items 3 and 4, Ordinance 2824, 01/28/03)
- B. Downtown (D) District: The suitability of the site for this use shall be determined by examining the degree to which the site plan protects the urban character of the streetscape. The building must be built to the front setback lines, as are other buildings in the urban area. The landscaping and other design features shall be determined to provide a continued pedestrian precinct that is attractive and safe.
- C. Business Park (BP) District: The intent is to permit this use only at the entrance to a business park and preserve the park for business or industrial uses.
1. A bufferyard of 0.2 opacity, including a 6' fence, shall be provided along all street yards.
 2. The minimum site area in the BP district is one (1) acre.
 3. No more than 4% of the business park area shall be this use. (Items 1-3, Ordinance 2824, 01/28/03)

SECTION 03.317 SERVICES

No more than 25% of the lot area shall be comprised of service floor area. (Ordinance 2824, 01/28/03)

SECTION 03.328 DRIVE-IN FACILITY

- A. In the SC and TA Districts, talk boxes must be screened by a sound barrier, such as a fence or masonry wall.
- B. In the D District, drive-in facility uses shall take access from an alley.
- C. In the BP District, drive-in facility uses shall take access from the entrance road to the business park. Further, these uses shall be located along the entrance road and prior to the first road intersection within the business park.
- D. A 0.4 opacity bufferyard shall be provided along all property lines adjacent to any residential use.
- E. In the BP district, this use shall take access from the entrance road to the business park. The use shall be located along the entrance and prior to the first road intersection in the business park.

(Items D and E, Ordinance 2824, 01/28/03)

SECTION 03.329 BED AND BREAKFAST

In the D and NC Districts Bed and Breakfasts shall be a reuse of an existing single-family building having a minimum floor area of 3,000 square feet. This use is limited to structures constructed prior to and including 1939 with an identifiable architectural style. While additions are permitted, they shall amount to no more than 25% of the total floor area. Off-street parking areas shall be screened from adjoining land uses by hedges and canopy trees.

In the E and S districts Bed and Breakfasts shall be the reuse of an existing single-family building or new construction with a minimum floor area of 3,000 square feet and located on a minimum of three acres.

Bed and Breakfasts in all districts shall meet the following:

- A. The owner/proprietor is required to occupy the residence.
- B. The number of bedrooms used for a Bed and Breakfast shall not exceed five (5).
- C. Bed and Breakfasts shall comply with County and State requirements/licenses as a food service or lodging facility.
- D. Short-term overnight lodging shall be permitted. Monthly rentals or leasing shall be prohibited.
- E. A minimum of one off-street parking space is required. The Planning Commission may permit on-street parking to be substituted upon determining that the street can accommodate the parking and the provision of off street parking would be detrimental to the area's appearance.

The Planning Commission may establish hours of operation, maximum number of guests, and other conditions that protect the public health, safety, and welfare.

SECTION 03.330 OUTDOOR AMUSEMENT

Commercial amusement uses shall meet the following.

- A. The use shall have only one (1) lot line facing residential.
- B. Closing hours and lighting shall be limited to 10 p.m. Facilities seeking to remain open after this time must apply for and receive approval of a conditional use permit.
- C. The Planning Commission shall review the facility and may prohibit landscaping or design that is unnatural or a problem for suburban residential neighbors in terms of the materials or other design features.
- D. A 0.4 opacity bufferyard shall be provided on all property boundaries, including a 3' berm.
- E. Access shall be taken from an arterial or collector street.

(Items D and E, Ordinance 2824, 01/28/03)

SECTION 03.331 HEAVY INDUSTRY

A wastewater study shall be conducted. Pre-treatment may be required as a condition of approval. A registered engineer shall submit the effluent data in a signed and sealed report. The following additional standards shall apply to the BP District.

- A. The use shall locate in the inner ring.
- B. No use's floor area shall be greater than ten thousand (10,000) square feet.
- C. The respective business park cannot devote more than fifteen (15) percent of the total developable land area to such uses.

SECTION 03.332 EXTRACTION

Extraction uses shall meet the following requirements.

- A. The Planning Commission shall determine if having the extraction facility inside the City limits is in the City's best interest and it will not adversely affect land designated for economic development.
- B. An end use plan shall be submitted providing the following.
 - 1. The ground surface shall be restored to a condition permitting one of the following uses: agriculture, residential, recreational (see 2. below), or nonresidential. Either an escrow account or a yearly fee shall be required as approved by the City Attorney and City Council to insure that there are sufficient funds set aside for the restoration.
 - 2. If future recreational use is identified, management of such use shall be established. Risks from any subsurface materials to future uses shall be identified.
 - 3. The quantity and quality of run-off reaching any surface water, on-site or discharging off-site shall be controlled.
 - 4. If surface water is present, the report shall indicate likely chemical water quality. The plan shall provide safe edges to prevent accidents. Safe edges require a long shelf with a slope of less than one to five (1:5) to a depth of six (6) feet.
 - 5. Special management and/or landscaping shall be used for depressional areas having slopes exceeding thirty (30) percent or depths greater than fifty (50) feet. Special management and/or landscaping shall prevent erosion, ensure rapid ground cover growth, and manage water to prevent ground cover loss.
- C. If ground water will be encountered, the plan must indicate the following.
 - 1. Probable maximum pumping rates and cone of depression impacts on surrounding public and private wells and long-term water table.
 - 2. Disposal method for pumped water and its effect on water quality and flooding.
- D. Along the district boundary or any district permitting adjoining residential uses, the required buffer width shall be increased by one hundred (100) feet. The buffer planting requirements shall be increased until the landscaping has a 1.0 opacity rating.

- E. Noise studies shall be conducted to determine the berm's exact height based on the equipment operated at the site and the blasting potential. The berm shall ensure the DNL does not exceed 55 at the property line or any building with a line of site to the property.
- F. Where surface water features remain, or a depressional area is created, a final excavation plan matched to a proposed end use plan shall be submitted. The final excavation plan shall demonstrate that sufficient land is to remain unexcavated and/or that the excavation will be done in a manner permitting the development to conform to this Ordinance's regulations without any variances.
- G. The minimum site area is 50 acres. (Ordinance 2824, 01/28/03)
- H. There shall be at least 500 feet between and extraction use and any residential use. (Ordinance 2824, 01/28/03)
- I. A 0.8 opacity (150 feet) bufferyard shall be installed on all perimeters, including a 15' berm (Ordinance 2824, 01/28/03)

SECTION 03.333 IMPOUNDMENT AND AUTO STORAGE

- A. All impoundment/auto storage uses shall be surrounded on all sides by a fence or wall at least 8' in height. The fence shall be maintained to ensure maximum safety to the public and preserve the general welfare of the neighborhood.
- B. An 8' fence with a .30 opacity landscaped bufferyard is required between the auto storage/impoundment lot and any adjacent residential use.
- C. Impoundment/auto storage uses shall not be located on arterial or collector streets.
- D. The fence shall be installed in such a manner to retain all impounded/stored vehicles within the yard.
- E. The property line of this use must be separated from residential structures by at least 50 feet.
- F. No vehicle shall be stored/impounded for more than twelve (12) months.

(Ordinance 2783, 08/21/01)

SECTION 03.334 COMMERCIAL COMMUNICATION TOWERS

- A. Applicants must provide documentation acceptable to the Planning Commission that existing structures within an appropriate one-mile radius of the proposed location are not available for co-location.
- B. All proposed towers 150 feet or less, not including lightning rod, shall be designed to accommodate at least one additional PCs/Cellular platform. All proposed towers in excess of 150 feet shall be designated to accommodate at least two additional PCs/Cellular platforms.
- C. Any application for a tower in excess of 150 feet in height shall include testimony of an

RF Engineer, or other Licensed Professional Engineer, substantiating the need for the requested height.

- D. The minimum setback from adjoining property lines shall be the height of the tower plus 20 feet. Setbacks may, on a case-by-case basis, be considered for a variance.
- E. The tower and accessory equipment must meet all requirements of the Federal Communications Commission and the Federal Aviation Administration.
- F. Any tower that is not operated for a continuous period of two years shall be considered abandoned and the owner of such tower shall remove the same within 90 days of a receipt of notice from the City Council notifying the owner of such abandonment. If such tower is not removed within 90 days, the City may remove the tower at the owner's expense.
- G. The City shall have the authority to require the applicant to file and maintain a surety bond, letter of credit or other security acceptable to the City. The security shall be equal to 20% of the cost of construction of the tower as disclosed by the applicant. The security shall be used to pay for removal of the tower if the owner fails to remove the tower as provided in (F.) above. The security shall be returned to the applicant upon proper removal of the tower.
- H. Pad sites and guy wire location must be surrounded by a minimum of a six-foot tall fence which has an opacity of 1.00

SECTION 03.335 OUTDOOR SALES

See Table 3.110A.

- A. In the D District, the following standards shall apply.
 - 1. Sales in the Paola Square shall be by permit from the City and controlled by regulations governing use of the Square.
 - 2. Sidewalk sales displays shall be arranged to leave at least six (6) feet of clear walkway for pedestrian circulation.
- B. In the TA District, the following standards shall apply.
 - 1. Garden Materials Sales
 - a. Limited Staff Review: Garden materials sales areas shall be permitted, provided they do not occupy required parking spaces, or are located on an area designated on the site plan for that purpose. Garden material sales areas exceeding 2,000 square feet shall be designated on the face of the site plan. Garden supplies, plant material, and garden furniture are permitted to be sold in these areas. Garden sales areas may be in parking areas for a maximum of five months, but not more than three consecutive months, each year.
 - b. Conditional Use Permit: Garden material sales that exceed the provisions of 1(a) above may be permitted as a Conditional Use provided:

1. All garden supplies and furniture displayed for more than three consecutive months must be screened as provided for outdoor storage (see Section 03.211 Accessory Uses, Nonresidential). Live plant materials may be displayed without being screened.
2. The Conditional Use Permit shall specify the time limits that temporary or portable greenhouses or other similar structures may be used. Such structures shall be maintained in good appearance and condition.
3. The minimum required parking spaces must be provided.
4. The requirements of Section 21.220 Conditional Uses shall be considered.
5. The Conditional Use Permit shall be issued for a period not to exceed one year.

(Ordinance 2735, 01/11/00)

2. Other sales are permitted up to four (4) times a year; owners may obtain a permit for exterior sales of merchandise related to the principal business.
 - a. The store shall have an exterior pedestrian area or sidewalk that is a minimum of twelve (12) feet wide. Sales displays shall be arranged to leave at least six (6) feet of clear walkway for pedestrian circulation.
 - b. The sales displays shall be on racks or display counters that are of similar quality to those used in the store. All displays shall be taken in at closing time.
 - c. No signage other than normal price markers shall be permitted.
 - d. The permit shall be good for no more than seven (7) consecutive days.

SECTION 03.336 PUBLIC INTEREST EVENTS

All such uses shall be held on land occupied by the organization benefiting from the proposed activity. The activity shall be permitted only during hours when the facility's parking would not be used for the primary use's high traffic generation activities. Events in stadiums or public parks shall be regulated by the City and are not limited by this Section.

SECTION 03.337 SPECIAL EVENTS

Special events in stadiums or public parks may be regulated by the City and are not limited by this Section. Events held on fairgrounds are exempt from these regulations (see §23.250(G)). All other special events shall meet the following standards:

- A. The special event shall be limited to four (4) successive days.
- B. If deemed necessary by the Police Department, property access shall be controlled by special traffic personnel. Prior to receiving a permit, the applicant must provide a written communication from the Police Department indicating adequate provisions have been made.

- C. The Community Development Department shall approve the sanitary provisions. Prior to receiving a permit, the applicant must provide a written communication from the Community Department indicating adequate provisions have been made.
- D. The Building Inspector shall approve all electric and lighting facilities. Prior to receiving a permit, the applicant must provide a written communication from the Building Inspector indicating adequate provisions have been made.
- E. Maximum noise levels may be established. The levels shall be based on the distance of the site to adjoining residential uses and any history of complaints about similar events.
- F. The applicant shall provide surety for complete site restoration upon the event's conclusion or should the permit be revoked. (Ord. 2990 05/26/09)

SECTION 03.338 TEMPORARY CONCRETE/ASPHALT BATCH PLANT

Temporary asphalt or concrete plants may be allowed by permit for City and County road projects or State or Federal highway projects in certain zoning districts (see Table 3.110 A). All standards within this section shall be complied with to qualify as a temporary asphalt or concrete plant. If any one of these standards cannot be met, the plant shall be considered a Heavy Industrial use and shall comply with applicable regulations.

- A. The temporary asphalt or concrete plant permit shall be renewed annually and shall be limited to a total of three consecutive years.
- B. The temporary asphalt or concrete plant and related materials and equipment shall be located no closer than 1,000 feet to any residence other than the residence of the land upon which the limited plant is to be located.
- C. The temporary asphalt or concrete plant shall comply with State air pollution regulations and the applicant shall obtain a permit from the Kansas Department of Health and Environment prior to operating the plant.
- D. The applicant shall comply with State and County sanitation codes and obtain a permit from the Miami County Environmental Health Department.
- E. No contaminated soils shall be stockpiled on the site, used for remediation, or used in the operation of the temporary concrete or asphalt batch plant.
- F. All fuel tanks shall include fuel/spill containment systems as approved by the Kansas Department of Health and Environment and/or the Miami County Environmental Health Department.
- G. Any spills of materials capable contaminating ground water shall be clean immediately to the satisfaction of the Kansas Department of Health and Environment.
- H. No washing or cleaning of trucks or truck beds shall be allowed on site unless a wastewater containment system is installed and used to the satisfaction of the Kansas Department of Health and Environment.

- I. No waste, production materials, discarded equipment or other such items shall be buried on the site.
- J. All equipment and materials utilized in the operation of the temporary asphalt or concrete plant shall be removed from the site and the site shall be returned to its original condition, or better, within 30 days following completion of the construction project for which the plant was established.
- K. A surety in the form of a performance bond and/or letter of credit in the amount of 125% of the estimated road restoration/replacement costs along anticipated principal truck routes must be provided to the City Clerk. The Director of Public Works will determine this amount. This surety ensures that roads will be reconstructed to their original or better condition as the use concludes or the permit is revoked.
- L. A surety in the form of a performance bond and/or letter of credit in the amount of 125% of the estimated site restoration costs must be provided to the City Clerk. The surety ensures that the site will be returned to its original or improved condition as the use concludes or the permit is revoked.
- M. If deemed necessary by the Police Department, special traffic personnel shall control the property access. Such instances warranting traffic personnel may include locations at busy intersections or other extensive interference with primary traffic from trucks.
- N. An approved site plan as outlined in the "Procedures for Application for Permit for a Temporary Asphalt/Concrete Plant" shall be submitted with the permit application.
- O. A temporary entrance permit is required for access on to any City or County right-of-way.
- P. If the site is within ¼ mile of a water body, the applicant shall comply with Kansas Department of Transportation Special Provision #90M-37-R1, regarding environmental concerns.
- Q. A map of the designated haul roads shall be submitted with the permit application and the operation shall comply with Kansas Department of Transportation Special Provision #90M-6006. If the project is not a KDOT project, an agreement must be drawn between the City, County, and Special Provision #90M-6006).

(Ordinance 2783, 08/21/01)

SECTION 03.339 TRUCK LOAD SALES

Such uses shall meet the following standards:

- A. No such use shall be closer than 150 feet from any public road frontage.
- B. Each company and all associated franchises and/or divisions are permitted three (3) limited use permits per year. Each permit shall terminate after seventy-two (72) hours from initiation of the use.

- C. Each property meeting the locational requirements of this Ordinance is permitted three (3) limited use permits per year. Each permit shall terminate after seventy-two (72) hours from initiation of the use.
- D. The minimum site area is 3 acres. (Ordinance 2824, 01/28/03)
- E. A 0.4 opacity bufferyard shall be required between this use and any residential use (Ordinance 2824, 01/28/03)

SECTION 03.340 INTENSIVE AGRICULTURE

A Conditional Use Permit under this section shall be approved and issued in accordance with the following:

- A. Permits may be issued only for land in the Estate (E) zoning district.
- B. No permit shall be issued for land within the Lake Miola watershed or Bull Creek watershed above the City of Paola water intake.
- C. A finding is made that the subject property and its environs, as determined by the Planning Commission, will not be adversely affected by the number of animal units requested to be permitted. Specifically, that the applicant has clearly demonstrated that: (1) there is not credible evidence of increased water pollution, soil erosion or harm to other natural resources resulting from the issuance of the permit, and (2) the applicant has adequate facilities to handle the proposed number of animal units. In making such a finding, the carrying capacity of the property and likelihood of adverse impact shall be examined not only with respect to present conditions but also with respect to reasonable expectation as to change conditions during the entire period of time the permit is to be in effect.
- D. When issuing a Conditional Use Permit an expiration date shall be attached thereto. In establishing such date the Planning Commission and Governing Body shall consider the request of the applicant; size of the tract, parcel or lot; type of livestock; number of animal units; and the nature and character of the livestock operation. Expiration of a permit shall not in any way prevent application for new permit.

SECTION 03.345 DANGEROUS ANIMALS

- A. No person shall keep or be permitted to keep any dangerous animal as a pet.
- B. The dangerous animal(s) shall be kept in a zoo, an accredited educational or medical institution, museum or other place where they are kept as live specimens for the public to view, in a circus or carnival, or in a licensed veterinary hospital for treatment.
- C. Applicants must provide documentation acceptable to the Planning Commission identifying:
 - a. The number and general description of all animals for which the permit is sought.
 - b. Any information known to the applicant concerning the vicious or dangerous propensities of all such animals.
 - c. The housing arrangements for all such animals with particular details as to safety of structure, locks, and fencing.

- d. Proposed safety precautions.
 - e. Noises or odors anticipated in the keeping of such animals.
 - f. Prior history of incidents involved the public health or safety involving any of said animals.
- D. Applicants must provide proof of insurance to cover those who may be injured or killed by said animals.
 - E. Applicants must provide a signed statement indemnifying the City and its agents and employees for any and all injuries resulting from said animals.
 - F. The Police Chief or his/her designated representative shall review all applications to keep dangerous animals and provide a recommendation to the Planning Commission. The applicant shall provide any additional information required by the Police Chief or his/her designee.
 - G. Animals may be replaced with others of the same kind, but the number of each shall not be in excess of the number allowed by the terms of the Conditional Use Permit. The owner shall notify the Zoning Administrator immediately upon the acquisition of any animal having a prior history of any incident involving the public health or safety, or resulting in any bodily injury or property damage.
 - H. Upon the sale of any dangerous animal, the owner shall immediately send notification of the sale along with the name and address of the buyer, the method of transporting the animal, the path of travel of such transportation, and the destination to the Zoning Administrator or his/her designated representative.
 - I. No conditional use permit shall be granted for more than one year.

(Ordinance 2799, 06/11/02)

SECTION 03.350 DOMESTIC EXOTIC ANIMALS/FARM ANIMALS AS PETS

- A. This section applies only to farm animals and exotic animals kept as pets and not commercial purposes.
- B. Minimum lot area is 3 acres.
- C. Maximum of 2 animals or 10 adult fowl/exotic cage birds or 1 animal and 5 adult fowl/exotic cage birds are allowed.
- D. A fence or cage of sufficient size, based on the carrying capacity of the land as defined by the Stockman's Handbook, must be provided. If not identified in the Stockman's Handbook, the zoning administration shall make a determination based on similar size/type animals identified in the handbook or by consulting a veterinarian.
- E. Proof of state permits (if applicable).
- F. The shed, yard, pen or other place which any animals or fowl are kept shall be maintained in a manner that is not offensive to those residing in the vicinity or annoying to the public.

(Ordinance 2799, 06/11/02)

SECTION 03.356 OUTDOOR RECREATION

- A. 0.2 opacity bufferyard shall be provided on all property boundaries.
- B. The minimum site area is five acres.

(Ordinance 2824, 01/24/03)

SECTION 03.357 INDOOR RECREATION

- A. The minimum site area is five acres.
- B. Access shall be taken from a collector or arterial street.

(Ordinance 2824, 01/28/03)

SECTION 03.358 CAMPGROUNDS

A 0.6 bufferyard shall be provided. (Ordinance 2824, 01/28/03)

SECTION 03.360 AIRPORTS

- A. The minimum site area is 300 acres.
- B. There shall be 1,500 feet separation between this use and any residential or school use.

(Ordinance 2824, 01/28/03)

SECTION 03.361 CHRISTMAS TREE SALES

Christmas tree sales shall be permitted only in conjunction with and located at an institutional use.
(Ordinance 2824, 01/28/03)

SECTION 03.362 Repealed (Ord. 2989 05/26/09)

Attachment Five

Overlay District Requirements

ARTICLE 15

QUALITY AND MONOTONY

DIVISION 15.000 PURPOSE

Established in 1855, Paola has a high quality urban center, including the City Square and County Court House Square. The urban area is surrounded by residential areas containing a rich diversity of building styles, types, and sizes providing Paola with a high-quality historic charm. This heritage has been important to the City's success in attracting residents, businesses, and tourists. Preserving that unique heritage as the City continues to grow is vital. The City also wants to establish its image and character at each entrance to the City from US 169. This Article provides regulations to control the quality of nonresidential uses that are entrances into the City. Controls over nonresidential building materials are provided to control the character of these areas. The character of new residential development is also regulated to ensure they are compatible with the diverse traditional character of the City's existing residential areas.

DIVISION 15.100 PROHIBITED MATERIALS

Because they are out of character with the historic character of Paola, metal-sided or concrete-slab buildings are permitted only as indicated below:

- A. **Metal-Sided Buildings.** Permitted in the I District. Permitted in the BP and TA Districts provided that the street facades shall be constructed of decorative masonry materials, except when an overlay district has higher standards (e.g. the City Entrance Area Standards). The façade of any building in the BP and TA district, which is located within 200' of any street right-of-way, including any highway right-of-way, shall be considered a street façade and constructed of decorative masonry materials (Ordinance 2799, 06/11/02). Metal buildings existing at the time of adoption of this ordinance may be expanded up to 15% of the original building footprint (Ordinance 2772, 03/21/01).
- B. **Concrete-Slab Buildings.** These buildings are permitted only in the I District. Permitted in the BP district provided that the street facades shall be constructed of decorative masonry materials. Prohibited in all other districts.
- C. **Design Review.** In all other locations, these materials shall be permitted only where the development submits architectural, landscaping, and sign reviews and receives Planning Commission approval.
- D. **Exception.** One (1) pre-designed storage building containing less than one hundred fifty (150) square feet is permitted per lot.

DIVISION 15.200 DESIGN STANDARDS

Design controls are essential to providing the desired character of land uses and buildings in the Downtown District and in areas at the entrance to the City from US 169.

SECTION 15.210 DOWNTOWN DISTRICT STANDARDS

The Downtown District contains the City Square, Court House Square, City Hall, and Library. The standards of this district are to maintain the historic image and character of the downtown area and to ensure that new buildings fit into that character. All buildings shall be reviewed during site plan approval by the planning commission for adherence to the following:

- A. **Building Material.** Red brick masonry is the preferred building fascia. Stone and other brick masonry may be approved, provided the building fits into the context of its neighbors and is not a sharp contrast to existing buildings.

- B. **Building Height.** All buildings shall be at least two stories in height. If the use proposed is such that two stories are impractical, then the architecture and street facade(s) should be such that the two-story character of the streets is maintained.

- C. **Architectural Style.** There is no single style that is mandated for the downtown area. However, building elevations should be sensitive to the scale and style of neighboring buildings. Overall window placement, window size, decorative trim or material, and colors should be consistent with the general street face.

- D. **General.** In looking at neighboring structures it should be understood that some older buildings have been degraded with applications of more modern materials over the original building facade. In these cases the Planning Commission may insist on a facade that more closely resembles the original styles, or is in keeping with buildings further down the same street that have preserved their historic character.

SECTION 15.220 CITY ENTRANCE AREA STANDARDS

City entrances are shown on the Zoning Map. All buildings in these areas regardless of the zoning shall be subject to design review by the Planning Commission. Only one of the three entrances has important existing buildings; Baptiste Drive has the hospital and high school. Other entrances will develop in the future. The following building standards shall be applied to the design review of non-residential uses:

- A. **Materials.** Masonry materials including integrally colored textured block, brick and stone with unpainted finishes are required on all street exposures. The use of stucco or exterior insulated finish system may also be permitted. Metal is not a permitted exterior finish material. On Baptiste Drive, the materials should be selected to complement and blend with the high school and hospital. (Ordinance 2799, 06/11/02)

- B. **Colors.** The basic colors shall be earth tones or brick colors. The Baptiste Drive area shall use tones that are consistent with the hospital and high school. No important buildings existed as of the date of adoption of this Ordinance at the other two City entrances. The Planning Commission should review the first buildings in these areas and select a range of colors that can be extended to the rest of the corridor.

- C. **Style.** There is no single style that is mandated for the entrance area. However, building elevations should be sensitive to the scale and style of neighboring buildings. Design themes that reflect the city square band shell should be strongly considered. If a business park is the proposed use, an overall design guideline should be approved.

SECTION 15.221 CITY ENTRANCE AREA LANDSCAPING

The City may require certain species of trees to be planted as the street trees.

DIVISION 15.300 MONOTONY STANDARDS

In Paola's traditional neighborhoods, buildings were built in small numbers so blocks developed over an extended period. The result is great diversity in scale, style, and detail. Modern development practices often result in large numbers of mass produced housing that is often monotonous and out of character with the City. This Division controls the building of similar buildings in residential subdivisions.

SECTION 15.310 MEASURES

The following measures are used to evaluate developments and prevent monotony. Figure 15.310 illustrates the following points.

- A. **Floor Plan.** The floor plan defines the arrangement of the building's form, arrangement of rooms, windows, and doors. Identical floor plans can lead to monotony.
- B. **Orientation.** This describes the orientation of building floor plan(s). A building rotated ninety (90) degrees will not appear identical even when the floor plans are identical. Similarly, flipping or reversing the floor plan creates a different look.
- C. **Roof Lines.** Rotating the orientation of the roof peak, or otherwise altering the roof line in a significant manner can alter the appearance completely.
- D. **Materials.** Brick; stone; natural-stained wood vertical siding; horizontal siding in wood, fiberglass, or metal; stucco or exterior insulated finish system; and shingles are all considered different exterior materials.
- E. **Architectural Features.** The addition of a front porch, tower, or balcony are architectural features that change the facade sufficiently to create a difference.
- F. **Color.** Color can be used to provide a unifying sense to a development; it can create monotony; or it can create conflicts.

SECTION 15.320 STANDARDS

The following standards shall be applied to all single-family dwellings or buildings containing more than one (1) dwelling unit to prevent monotony:

- A. A variety of building sizes or scales shall be provided. No more than three (3) buildings in a row shall have less than a thirty (30) percent difference in scale between the largest and smallest building as measured by building floor area. (See Figure 15.320.)
- B. No two (2) dwellings or buildings on a street face shall be identical in floor plan or color unless differing by at least two (2) of the following (See Figure 15.310.):
 - 1. Rotated or reversed lot orientation.
 - 2. Different roof configuration or orientation.
 - 3. Different materials or exterior walls. A mix of materials may be used on buildings. For example, stone and shingle or brick and horizontal siding.
 - 4. The addition of architectural features that alter the appearance.
 - 5. Identical color schemes shall require the addition of another differentiating feature (total of 3) from numbers 1 through 4 above to offset the similarity in color.
- C. Buildings having more than one (1) unit shall include different floor plans, staggered alignments with the street, roof line variation, architectural features, or rotated orientation to achieve interest in the building.
- D. **Design Review.** In some cases, as with attached units or subdivisions which seek to replicate a historic theme or themes, greater unity of design may actually enhance the character of the area. Such plans shall be permitted only where the developer submits architectural, landscaping, and sign reviews and receives Planning Commission approval.

DIVISION 15.400 DESIGN REVIEW

The design review shall be applied to the use of certain building materials under Division 15.100, residential designs not meeting the monotony standards of Division 15.300, or the provision of larger signs in accordance with the provisions of Section 07.103. The Planning Commission shall conduct a design review as part of the plan approval process for a plat or site plan at the request of the developer.

SECTION 15.410 DESIGN REVIEW STANDARDS

In conducting the design review, the Planning Commission shall evaluate the plan against the following criteria. Approval requires that the criteria have been met or are inapplicable to the specific project, and that the development is significantly superior to one that simply met the Ordinance requirements.

- 1. The project is compatible with surrounding uses in terms of scale and adherence to the traditional character of Paola.
- 2. The architecture, project layout, landscaping, and signs contribute to a harmonious and diverse character that has a strong sense of unity.

3. Monotony is avoided and the plan provides an environment that has interest and diversity without becoming chaotic or discordant.
4. The buildings are designed to be part of Paola, rather than a plan or character that can be applied to similar uses across the nation. Formula buildings and color schemes are undesirable.
5. The streetscape protects or enhances the entrances to Paola, making them distinct from similar land uses in other communities.
6. The combination of architecture, signs, and landscaping creates a sense of place for those developments having many buildings, or which contribute to an overall sense of unity if the development is a single building.
7. The streetscape and building design reduces apparent building mass of large buildings to match the City's small town character.

SECTION 15.525 SINGLE FAMILY RESIDENTIAL DESIGN STANDARDS

- A. **Minimum Dimension.** The smaller dimension of a rectangular dwelling unit shall be at least 22 feet. If a dwelling unit is not rectangular, then the minimum dimension of a rectangle superimposed over and enclosing the entire footprint of the dwelling unit shall be at least 22 feet.
- B. **Foundations.** All buildings shall be placed on a permanent foundation that meets applicable building code requirements. The floor elevation of the proposed dwelling shall be reasonably compatible with the floor elevations of surrounding dwelling units.
- C. **Garage or Carport.** A single-family dwelling shall include a garage or carport constructed with the same materials as the dwelling with a concrete floor and concrete pad.
- D. **Driveways.** Driveways with access on public streets shall be hard surfaced.
- E. **Roof Pitch Overhang.** All main buildings shall have a pitched roof with a minimum 12-inch roof overhang on each of the dwelling's perimeter walls such that the overhang is architecturally integrated into the design of the dwelling.
- F. **Roofing Material.** All main buildings and all detached garages or carports shall have a roof surface of wood shakes, asphalt, composition or wood shingles, clay or concrete tiles, or other material expressly designed for roofs.
- G. **Siding Materials.** All main buildings and all detached garages shall have exterior siding material consisting of wood, masonry, concrete, stucco, masonite, vinyl or metal lap. The exterior siding shall extend to ground level, except that when a solid concrete or masonry perimeter foundation is used, the siding material needs to extend below the top of the foundation.

Deviations. The Planning Commission may approve deviations from one or more of the design standards on the basis of a finding that the architectural style proposed provides compensating design features and that the proposed dwelling will be compatible and harmonious with existing structures in the vicinity.
(Ordinance #2772, 03/13/01)

Attachment Six

Phase I Environmental Assessment

RECEIVED

AUG 07 2017

BUREAU OF
ENVIRONMENTAL REMEDIATION

FINAL

Phase I Environmental Site Assessment

Paola – Business Park North
Property Identification Number 1321003001009040
KDHE Project Code – C4-061-73474
1410 Industrial Road
Paola, Kansas

Prepared For

**Kansas Department of Health and
Environment**

and

The City of Paola

Project B1704612
June 13, 2017

Braun Intertec Corporation

BRAUN
INTERTEC
The Science You Build On.

June 13, 2017

Project B1704612

Mr. Seth Mettling, Brownfields Coordinator
Kansas Department of Health and Environment
1000 SW Jackson Street, Suite 410
Topeka, Kansas 6612

Re: Paola – Business Park South
Property Identification Numbers 1321003001009040 & 1321003002009080
KDHE Project Code – C4-061-73473
1410 Industrial Road
Paola, Kansas

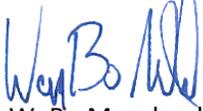
Dear Mr. Mettling:

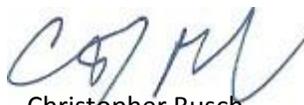
In accordance with your written authorization, Braun Intertec Corporation conducted a Phase I Environmental Site Assessment (ESA) of the above-referenced Site (Site). The objective of the Phase I ESA was to evaluate the Site for indications of recognized environmental conditions and to assist in satisfying All Appropriate Inquiries (AAI) standards and practices. The Phase I ESA was conducted in general conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E1527-13 and 40 CFR Part 312.

The Phase I ESA was prepared on behalf of, and for use by Kansas Department of Health and Environment (KDHE) and The City of Paola. No other party has a right to rely on the contents of the Phase I ESA without written authorization by Braun Intertec. The Phase I ESA was prepared in association with the future development of the Site. Please refer to the attached report for the scope, methods and conclusions of our assessment.

We appreciate the opportunity to provide our professional services for you for this project. If you have any questions regarding this letter or the attached report, please contact Christopher Busch at 785.845.0574 or Bo Moreland at 913.647.5030.

Sincerely,
BRAUN INTERTEC CORPORATION


W. Bo Moreland
Staff Scientist


Christopher Busch
Senior Scientist

Attachment: Phase I Environmental Site Assessment Report

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Executive Summary

Braun Intertec Corporation conducted a Phase I Environmental Site Assessment (ESA) of an approximate 13-acre tract of land comprised of two parcels situated at or near 1410 Industrial Road (one parcel does not have an associated street address and is identified as No # Industrial Drive) in Paola, Kansas (Appendix A). The Site is described by the Property Identification Numbers 1321003001009040 and 1321003002009080 as shown on the Site Sketch in Appendix B. The Phase I ESA was conducted in general conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E1527-13 and 40 CFR Part 312.

At the time of the site reconnaissance the Site consisted of an approximate 16-acre lot that was vacant except for a community garden on the west portion of the Site. The property had tall, uncut grass and sloped to the west. Multiple water hydrants were observed along the northern boundary of the Site, indicated a potential water main. Two entry points were observed along the northern boundary, one located near the community garden on the western end and one at the north central portion of the Site.

Based on available information the Site was developed as cultivated cropland or grassland by at least 1948, along with the majority of the surrounding area. It appears likely that this was the first developed use of the Site. The Site does not appear to have had structures on it based on available information. Land use for the surrounding areas appear to be farmland, residential and commercial sites.

No observations of environmental concern were noted on adjoining properties to the Site at the time of the reconnaissance.

This assessment identified no recognized environmental conditions in connection with the Site.

During the site reconnaissance, *de minimis* conditions were not observed, with the exception of the following:

- A portion of the Site is utilized for a community garden. The potential use of small amounts of fertilizer and pesticide/herbicide is, in our opinion, a *de minimis* condition.

A. Introduction

A.1. Purpose

Braun Intertec Corporation received authorization from Mr. Seth Mettling of Kansas Department of Health and Environment (KDHE), to conduct a Phase I Environmental Site Assessment (ESA) on the Site listed at 1410 Industrial Drive and No # Industrial Road in Paola, Kansas. The Site is an approximate 13-acre tract of land situated on two parcels. Parcel 1321003001009040 includes a portion of land located north of Industrial Park Drive; however, the Site for this Phase I ESA includes all of Parcel 1321003002009080 and that part of 1321003001009040 located south of Industrial Park Drive.

The objective of the Phase I ESA was to evaluate the Site for indications of recognized environmental conditions and to assist in satisfying All Appropriate Inquiries (AAI) standards and practices. The Phase I ESA was conducted in general conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E1527-13 and 40 CFR Part 312. No intentional deviations from the ASTM Practice E1527-13 were made in conducting this Phase I ESA for the Site. The Phase I ESA was prepared on behalf of, and for the use by KDHE and The City of Paola (Users) in accordance with the contract between KDHE and Braun Intertec. No other party has a right to rely on the contents of the Phase I ESA without written authorization by Braun Intertec. All authorized parties are entitled to rely on the attached report according to our contract with Client, and under the same terms, conditions and circumstances. Please note that our contract with Client may contain a limitation of our total liability. If so, such limitation also applies to all those receiving this permission.

According to the User, the Phase I ESA was conducted in association with the future development of the Site.

The purpose of this Phase I ESA was to evaluate the Site for indications of “recognized environmental conditions.” A recognized environmental condition is defined by ASTM Practice E1527-13 as: “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment, 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions.”

In addition, a “controlled recognized environmental condition” is also a recognized environmental condition. A controlled recognized environmental condition is defined by ASTM Practice E1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with

hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.”

A.2. Site Location

We accessed various documents and online sources to obtain Site location information. The following is a summary our findings:

Address	1410 Industrial Road & No # Industrial Road
City, State	Paola, Kansas
County	Miami
Property Identification Numbers	1321003001009040 & 1321003002009080
Construction Year	Not Applicable
Owner	The City of Paola
Latitude	38.582826° North
Longitude	-94.859849° West
Section, Township, Range	Section 10 Township 17 South, Range 23 East
Size	≈ 13-acres

A Site location map and Site sketch are attached in Appendices A and B, respectively. Information obtained from the Miami County online GIS interactive parcel search web page is attached in Appendix C.

A.3. Scope of Services

Services provided for this project included:

- Preparing a description of the Site location, current use and improvements, and surrounding area.
- Preparing a general description of the topography, soils, geology, and groundwater flow direction at the Site.
- Reviewing reasonably ascertainable and practically reviewable regulatory information published by state and federal agencies, health, and/or environmental agencies.
- Reviewing the history of the Site, including aerial photographs, fire insurance maps, directories, and other readily available Site development data.
- Conducting a reconnaissance and environmental review of the Site, including observations of the Site for indications of hazardous materials, petroleum products, polychlorinated biphenyls (PCBs), wells, storage tanks, solid waste disposal, pits and sumps, and utilities.

- Conducting an area reconnaissance, including a brief review of adjoining property uses and pertinent environmental information noted in the Site vicinity.
- Interviewing current owners and/or occupants of the Site and accessible past Site owners, operators and/or occupants.
- Interviewing local government officials or agencies having jurisdiction over hazardous waste disposal or other environmental matters in the area of the Site.
- Reviewing previous environmental reports prepared for the Site, if provided.
- Preparing a written report of our methods, results, and conclusions.

The Standard Scope of the ASTM Practice E1527-13 is not intended to provide a universal analysis of potential environmental risks and hazards. This assessment included no analysis of non-standard scope environmental risks and hazards unless otherwise listed above. Analysis of other non-standard scope issues by Braun Intertec would require additional contractual arrangements.

This assessment does not include vapor encroachment screening as defined in ASTM Practice E2600-10, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. ASTM Practice E2600-10 is not a requirement or component of “all appropriate inquiry,” but a tool for evaluating vapor migration. Its results are not determinative of whether hazardous substances from a release are or may be present at the property for the sake of “all appropriate inquiry” or ASTM Practice E1527-13. An ASTM Practice E2600-10 vapor encroachment screen is not within the scope of this Phase I ESA and will not be conducted unless specifically requested by the User. However, vapors present or likely present from hazardous substances or petroleum products are considered no differently than hazardous substances or petroleum products present or likely present as a result of a release to the environment. Therefore, while a vapor encroachment screening per the ASTM Practice E2600-10 standard is not part of this assessment, the potential for impacts to the property from vapor migration that is a result of a release of hazardous substances and/or petroleum products to the environment will be considered when assessing for the presence of a recognized environmental condition as defined by ASTM E1527-13.

A.4. User-Provided Information

The purpose of this section is to describe tasks to be performed by the “User.” The “User” as defined by ASTM Practice E1527-13, is “the party seeking to use ASTM Practice E1527-13 to complete an environmental Site assessment of the property. A User may include, without limitation, a potential

purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager.”

As stated in 40 CFR 312 (the rule), the Brownfield’s Amendments provide important liability protections for Users who qualify as contiguous property owners, bona fide prospective purchasers, or innocent landowners. To meet the statutory requirements for any of these Landowner Liability Protections (LLPs), a User must meet certain threshold requirements and satisfy certain continuing obligations. To qualify as one of the three LLPs, the User must perform “all appropriate inquiries” (AAI) on or before the date on which the User acquired the Site. The rule defines AAI, which includes inquiries and activities performed by the User and an environmental professional (EP).

The rule allows (but does not mandate) the User performing AAI to conduct inquiries or activities that may include searches for environmental liens, assessments of any specialized knowledge on the part of the User, an assessment of commonly known or reasonably ascertainable information about the Site, and an assessment of the relationship of the purchase price to fair market value. However, if the User performing AAI conducts one or more of these inquiries and/or activities, the rule allows (but does not mandate) that the User may communicate information gathered from these inquiries and/or activities to their EP to identify a possible recognized environmental condition.

Braun Intertec submitted a User Questionnaire to the User (Mr. Mike Gotfredson – City of Paola) as a means to gather information.

User-supplied information is discussed in applicable sections of this report. Sections A.4.a through A.4.f present any information communicated to us by the User that the EP has determined to indicate the possible presence or likely presence of a recognized environmental condition.

A.4.a. Environmental Liens

An environmental lien is a charge, security, or encumbrance, upon title to the Site to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of environmental issues at the Site.

The User was not aware of a record or awareness of environmental liens recorded against the Site.

A.4.b. Activity and Use Limitations

Activity and Use Limitations (AULs) are legal or physical restrictions or limitations on the use of, or access to, a Site to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the Site or to prevent activities that could

interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. AULs, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, groundwater, and/or surface water on the Site.

The User was not aware of a record or awareness of AULs recorded against the Site.

A.4.c. Specialized Environmental Knowledge

Specialized environmental knowledge includes any information and/or experience related to the Site or adjoining properties including, but not limited to, any obvious indicators that point to the presence or likely presence of environmental issues at the Site.

The User did not list specialized environmental knowledge for the Site.

A.4.d. Valuation Reduction for Environmental Issues

Valuation reduction for environmental issues includes the relationship of the purchase price to the fair market value of the property.

The User stated that the property purchase price was considered to be of fair market value.

A.4.e. Commonly Known or Reasonably Ascertainable Information

Commonly known or reasonable ascertainable information includes information about the Site that generally is known to the public within the community where the Site is located and can be easily sought and found from individuals familiar with the Site or from easily attainable public sources of information.

The User was not aware of commonly known or reasonably ascertainable information for the Site.

A.4.f. Degree of Obviousness

The User must consider the degree of obviousness of the presence or likely presence of releases or threatened releases at the Site and the ability to detect releases or threatened releases by appropriate investigation.

The User was not aware of any obvious indications of the presence or likely presence of releases or threatened releases at the Site.

B. Records Review

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the Site. We consulted only those regulatory and historical sources that were readily available, practically reviewable, and likely to be useful to develop a history of previous uses of the Site and surrounding area within the time and cost constraints of this Phase I ESA.

B.1. Physical Setting Information

B.1.a. Topography

According to the United States Geological Survey (USGS) 7.5-minute topographic map series, Paola West quadrangle 2012, the Site is located at an approximate elevation of approximately 910 feet above mean sea level. The topographic relief is sloping towards the west.

B.1.b. Soil

We reviewed the United States Department of Agriculture (USDA) National Resource Conservation Service (NRCS) website to obtain soil information regarding the Site. According to the NRCS, the soil at the Site consists predominantly of Summit silty clay loam, 1 to 3 percent slopes, with Dennis silt loam, 1 to 3 percent slopes.

B.1.c. Geology

Bedrock geology of the Site area is expected to consist of the Lane Shale or Iola Limestone formations of the Zara Subgroup, Kansas City Group, of the Missourian Stage of the Pennsylvanian System. The Lane Shale may be characterized as silty to sandy shale with thin-bedded siltstone, and minor coal seams. The Iola Limestone formation consists of the Paola Limestone member, the Muncie Creek member, and the Raytown Limestone member.

B.1.d. Hydrogeology

According to the USGS 7.5-minute topographic map series, West Paola quadrangle 2012, the surface gradient in the vicinity of the Site is to the west. Accordingly, the regional groundwater flow direction within the consolidated deposits in the vicinity of the Site may also be generally to the west. However, the regional groundwater flow direction in the vicinity of the Site could not be ascertained due to lack of available hydrogeological information. The local direction of groundwater flow may be affected by nearby streams, lakes, wells, and/or wetlands and may vary seasonally.

The Site-specific groundwater flow direction was not determined through direct measurement during this Phase I ESA. Additional field investigation, beyond the Scope of Services of this Phase I ESA, would be required to determine this information.

B.2. Regulatory Report

We obtained regulatory database information pertaining to the Site and surrounding area from Environmental Data Resources, Inc. (EDR). The EDR report is a compilation of records of facilities that are included on current federal and state environmental regulatory databases. The databases were searched based on the specified minimum search distances from the Site as established by ASTM Practice E1527-13.

The EDR report also includes a description, source reference, date of acquisition, and the specified approximate minimum search distance criteria for each database and list. A copy of the EDR report is attached in Appendix D.

We reviewed the EDR report to identify records that indicate known or potential recognized environmental conditions on the Site and/or surrounding area and to evaluate the likelihood for those recognized environmental conditions to impact the Site based on the information obtained in this Phase I ESA.

B.2.a. Site

The Site is not listed in the EDR report on any of the standard environmental record sources as specified in the ASTM Standard.

B.2.b. Adjoining Properties

No facilities in the EDR report are listed at properties that adjoin the Site and are located within the approximate minimum search distances on the standard environmental records sources as specified in the ASTM Standard.

B.2.c. Surrounding Area

The following facilities in the EDR report are listed at properties that are beyond those that adjoin the Site and are located within the approximate minimum search distances on the standard environmental records sources as specified in the ASTM Standard.

- MFA Oil Company, 299th & Hedge Lane (0.174-miles east-northeast). This facility is listed on the aboveground storage tank (AST) database. According to the database, the facility has 9 ASTs on the property. Seven of the nine tanks are still in use, while two of the them are permanently out of use. Five tanks were installed in 1977 ranging is volume from 12,000 – 13,000 gallons each. Four of the tanks contained diesel while one was used for gasoline. Two of the five tanks installed in 1977 were permanently removed on July 22, 2010. Two 10,000 gallon diesel tanks were installed in 2006, while two 15,000 gallon tanks were installed in 2010 (one gasoline and one diesel).
- Individual Landowner, 9 Crestview Drive (0.358-mi west-northwest). This facility is listed on the leaking underground storage tank (LUST) (Project number U4-061-00254) database. According to the database, the residence had two 1,000-gallon tanks filled with gasoline installed in the 1960s. During removal in 1989, a small amount of seepage was noticed at the bottom of the tank pit for one tank (the other did not appear to have contamination). The tank was reported terminated on weathered limestone. The tanks were removed and the site was closed.

B.2.d. Unmapped Sites

The EDR report did not identify unmappable sites (orphan sites).

B.3. Regulatory Agency File and Records Review

The purpose of the regulatory file review is to obtain sufficient information to assist in determining if a recognized environmental condition, historical recognized environmental condition, controlled recognized environmental condition, or a *de minimis* condition exists at the Site in connection with a regulatory report listing.

Based on our review of the regulatory report, it is our opinion that a regulatory agency file and records review of sites presented in Section B.2 is not warranted as the information presented in the regulatory report is sufficient.

B.4. Additional Federal, State, and Local Environmental Records

To enhance and supplement the regulatory database report, we obtained or reviewed practically reviewable or reasonably ascertainable local city and/or county records and/or additional state records to identify records that indicate known or potential recognized environmental conditions at the Site.

B.4.a. Well Databases

Our review of the Kansas Geological Survey (KGS) Water Well Completion Records (WWC5) database revealed no documentation of water wells located on the Site. A search within a 1/4-mile radius of the Site found four geothermal wells (500017, 437637, 330101 and 444060) with static water level of 5 to 10 feet below ground surface (bgs).

The oil and gas mapper for KGS did not indicate wells on the subject Site. There were two wells depicted just north of the Site which were listed as “Intent to Drill,” however, there were no indications of oil or gas wells on the property or in the vicinity during the site reconnaissance. Accordingly, Mr. Gotfredson stated that he did not know of any oil or gas wells on the Site.

B.4.b. State Regulatory Web Pages

We accessed the KDHE Environmental Interest Finder (KEIF) for general environmental regulatory items of interest relative to the Site and surrounding properties. There were no items within ½-mile of the Site above and beyond those found in the EDR report that would present RECs relative to the Site.

We accessed the KDHE Environmental Use Control (EUC) Interactive mapping service to locate properties in the vicinity of the Site that may have applied EUCs to their property through the KDHE. EUCs were not found on the Site or on properties in the vicinity of the Site.

In addition, we accessed the United States Department of Transportation (DOT) National Pipeline Mapping System (NPMS) to determine the location of petroleum pipelines in the area. According to the NPMS mapping system there were no petroleum pipelines within 1-mile of the Site.

B.5. Historical-Use Information

The objective of the historical-use information review was to develop a history of the previous uses of the Site and surrounding area, to help evaluate the likelihood of past uses having led to recognized environmental conditions in connection with the Site.

B.5.a. Historical Maps

We retained EDR to obtain fire insurance maps of the Site and surrounding area. According to EDR, no historic map coverage is available for the Site. A copy of the no coverage letter is attached in Appendix E.

B.5.b. Historical Topographic Maps

We retained EDR to obtain topographic maps of the Site and surrounding area. Topographic maps that were published in 1887, 1893, 1956, 1973 and 2012 were provided by EDR, and are attached in Appendix F. Below are summaries of the years covered.

1887 – 1893

During this time period the Site appears vacant, and structures are not depicted. Unnamed railroad tracks are depicted approximately ½-mile west and ½-mile south of the Site. The city of Paola is depicted to the southeast of the Site. Approximately ¾-mile east of the Site is the Dorsey Branch Creek, while Bull Creek is located approximately ¾-mile west. The maps researched during this time period were of the 30-minute series which has a larger scale and less detail.

1956 - 1973

No structures are depicted on the Site during this time period. An intermittent stream is depicted running along the northern boundary. In the surrounding areas, multiple oil/gas wells are depicted within a 1-mile radius of the Site. Approximately ½-mile west of the Site, US Highway 169/State Highway 7 is depicted with numerous structures that appear to be residential located along the highway. Additional residential structures are depicted to the south and southeast, associated with the City of Paola. On the 1973 map, Miola Lake is shown approximately ½-mile east of the Site.

2012

During this time period it appears that only the topographical contours, roads, railroads and bodies of water are labeled. Additional roads have been constructed (including Industrial Road) with ¼-mile of the Site. No structures are depicted on the Site or in the surrounding areas. While observations may suggest no structures are shown, that does not necessarily indicate there were no structures on the property.

B.5.c. Aerial Photographs

We retained EDR to obtain aerial photographs of the Site and surrounding area. EDR provided aerial photographs for the years 1948, 1977, 1985, 1991, 1996, 2002, 2005, 2006, 2008, 2010 and 2012. Copies of the aerial photographs are attached in Appendix G.

1948

The Site appears to be cultivated cropland, as does the majority of the surrounding areas. Railroad tracks are observed to the northwest and structures appear northeast, southeast and southwest of the Site. There are roads observed within ½-mile of the Site, however due to the extent and resolution, details are difficult to ascertain.

1977

During this time period details are hard to ascertain due to the extent and resolution of the photograph. Residential areas were observed to the west and southwest (City of Paola). Lake Miola is observed to the northeast, and multiple roads appear to be constructed in the vicinity of the Site.

1985 - 1996

During this time period the Site is vacant. Industrial Road appears to be constructed along the northern border of the Site. Multiple structures have been constructed to the south and east of the Site, as well as multiple roads and access roads in the vicinity. Railroad tracks are observed adjacent to and northwest of the Site.

2002 – 2012

The Site appears to be vacant during this time period. Structures are located to adjacent and east of the Site. Additional residential structures are observed south and southwest of the Site. No other significant changes were observed.

B.5.d. City Directory Information

We retained EDR to obtain city directory information pertaining to the Site and surrounding area. EDR provided city directories for Industrial Road at approximate five-year intervals from 1995 to 2013.

The Site was not listed in the City Directory. Copies of the city directories are attached in Appendix H.

B.6. Previous Environmental Documents

No previous environmental documents were provided for the Site.

B.7. EDR Environmental Lien Search

As requested by KDHE, Braun Intertec contracted EDR to provide an Environmental Lien Search. The EDR Environmental Lien Search Report provides results from a search of available current land title records

for environmental cleanup liens and other activity and use limitations (AULs), such as engineering controls and institutional controls. The report did not find any liens or AULs listed for the Site. The Environmental Lien Search can be found in Appendix I.

Two additional EDR reports were ordered for this Phase I ESA. An EDR Building Permit Report and an EDR Property Tax Map Report. The Building Permit Report is designed to provide a practical and efficient method to search building department records for indications of environmental conditions. However, this report states that EDR does not have access to building permits in Paola, Kansas.

The EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. This report did not have coverage of the subject Site and did not provide information.

B.8. EDR Chain of Title Report

The chain of title report is designed to track a line of successive ownership from the present back to 1940 of a particular parcel of property. However, the EDR Chain of Title Report (4941399.14, dated June 06, 2017) searched the Miami County Recorder of Deeds and Miami County Assessor and stated “According to county records this property has belonged to the City of Paola since patent. Records were searched back to 1930, no deed was found of record.” According to the report, the title is vested in the City of Paola. The chain of title report can be found in Appendix J.

C. Interviews

We contacted the following individual to obtain knowledge or historical and current land-use information regarding the Site:

Mr. Mike Gotfredson, Community/Economic Development Director, City of Paola

According to Mr. Gotfredson, he was unaware of any spills or storage of hazardous substances or petroleum products at the Site, was unaware of any dumping or landfilling or any environmental concerns in connection with the Site. Mr. Gotfredson has been associated with the Site for over 30 years, and he stated that the Site has been vacant, with the exception of soccer fields during that time.

We made inquiry to the following local government offices with the city of Paola to obtain knowledge or records of historical and current land-use information regarding the Site and surrounding area:

Mr. Andy Martin, Fire Chief, Paola Fire Department

A Braun Intertec representative contacted Mr. Martin on May 22, 2017, regarding a history of spills or releases at the Site and in the vicinity. Mr. Martin replied that there were no known records or information of environmental issues at the Site that would indicate the likelihood of a release or spill.

D. Site Reconnaissance

The objective of the Site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the Site.

A Braun Intertec environmental professional, Mr. Bo Moreland, conducted a Site reconnaissance on May 19, 2017. Mr. Moreland was not accompanied during the Site reconnaissance. There were no restrictions to access of the entire property for reconnaissance.

At the time of the Site reconnaissance, the weather was sunny with a temperature of approximately 65 degrees Fahrenheit and winds from the east at approximately 11 miles per hour.

D.1. Site Characteristics

At the time of the site reconnaissance the Site consisted of an approximate 13-acre lot that was vacant except for a community garden on the west portion of the Site. The property had tall, uncut grass and sloped to the west. Multiple water hydrants were observed along the northern boundary of the Site indicating a potential water main. Two entry points were observed along the northern boundary, one located near the community garden on the western end and one at the north central portion of the Site.

D.2. Adjoining Property Use and Characteristics

The Site was bordered on the north by Industrial Road, with grassland and structures beyond; on the west by the Lighthouse Presbyterian Church; on the south by a City of Paola community garden and grassland; and on the east by residential structures.

No observations of environmental concern were noted on properties adjoining the Site at the time of the reconnaissance.

D.3. Site Improvements and Layout

The Site is currently developed with a community garden location on the west end of the property. Multiple water hydrants were observed along the northern border of the property. Along the southern boundary (potentially offsite) multiple communication lines were observed (marked). A Site Sketch and Site Photographs are attached in Appendices B and K, respectively.

D.4. Creeks, Pits, Ponds, or Lagoons

During the Site reconnaissance, no creeks, ponds or lagoons were observed.

D.5. Stained Soil, Pavement, or Corroded Surfaces

During the Site reconnaissance, no staining or corroded surfaces were observed.

D.6. Solid Waste Disposal

At the time of the reconnaissance, no indications of waste disposal areas, observed fill, mounds, depressions, burn pits or graded areas by non-natural causes were observed at the Site that would indicate a potential for the presence of trash, construction debris, demolition debris, or other solid waste disposal.

D.7. Stressed Vegetation

No areas of stressed, discolored, stained or dead vegetation beyond what would be expected due to seasonal conditions were observed at the time of the Site reconnaissance.

D.8. Hazardous Substances

No indications of current and/or historic use, storage, staining, or spills of hazardous substances were observed at the Site at the time of the reconnaissance.

D.9. Petroleum Products

No indications of current and/or historic use, storage, staining, or spills of petroleum products were observed at the Site at the time of the reconnaissance.

D.10. Storage Tanks

No indications of aboveground or underground storage tanks (AST/UST) were noted at the Site at the time of the reconnaissance.

D.11. Unidentified Drums and Containers

No drums containing unidentified substances suspected of being a hazardous substance or petroleum product were observed at the Site at the time of our reconnaissance.

D.12. Odors

No indications of strong, pungent, or noxious odors were observed at the time of the reconnaissance.

D.13. Potential PCB-Containing Electrical and Hydraulic Equipment

During site reconnaissance, no electrical or hydraulic equipment was observed.

D.14. Wastewater Discharges

No indications of wastewater discharging into a drain, ditch, underground injection system, or stream on or adjacent to the Site were observed at the time of the reconnaissance.

D.15. Sewage Disposal System

The Site is not currently connected to the city of Paola sewer system.

D.16. Wells

No indications of wells such as monitoring wells, dry wells, irrigation wells, injection wells, abandoned wells, or other non-potable wells were observed at the Site at the time of the reconnaissance.

D.17. Potable Water Supply

The Site is not currently connected to municipal water services, but service is reportedly available.

E. Summary of Land-Use Activities

E.1. Historical Site and Adjoining Property Land Use

Based on available information the Site was developed as cultivated cropland or grassland by at least 1948, along with the majority of the surrounding area. It appears likely that this was the first developed use of the Site. The Site does not appear to have had structures on it based on available information. Land use for the surrounding areas appear to be farmland, residential and commercial sites.

E.2. Current Site and Adjoining Property Land Use

At the time of the assessment, the Site consisted a community garden and open grassland. Multiple water hydrants were observed along the northern boundary of the Site. The properties surrounding the Site consist of commercial and residential sites. Grassland remains prevalent near the Site including adjacent and north across Industrial Road and southeast.

F. Limiting Conditions and Data Gaps

The findings and conclusions presented in this report are based on procedures described in ASTM Practice E1527-13, inquiries with public officials, available literature cited in this report, conditions noted at the time of our Phase I ESA, and our interpretation of the information obtained as part of this Phase I ESA. Our findings and conclusions are limited to the specific project and properties described in this report and by the accuracy and completeness of information provided by others.

An environmental Site assessment cannot wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property within reasonable limits of time and cost.

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

Although Braun Intertec attempted to obtain reasonably ascertainable information regarding the Site, some information was either not received or not readily available at the time of this report, or a data failure leading to certain information being considered not reasonably ascertainable occurred. Therefore, consistent with ASTM Standard Practice E 1527-13, the following data failures have been identified:

- The Standard Practice specified that all obvious uses of the Site shall be identified from the present back to the property's first developed use, or back to 1940, whichever is earlier. For the purposes of historical use evaluation, the Standard Practice considers the term "developed use" to include agricultural uses. Historical information reviewed by Braun Intertec suggests the property has not been developed for use other than agricultural (pasture, hay or crop production); however, the time frame for agricultural use cannot be confirmed. While the topographic maps indicate the Site has remained undeveloped, specific use of the Site, including use for agricultural purposes back to 1940, could not be definitively determined.

Based on a review of the data gaps/failures presented above, it is Braun Intertec's opinion that the data failure is not likely to have affected the evaluation of RECs at the Site or to have materially affected the conclusions of the Phase I ESA.

G. Findings

The findings include identified known or suspect recognized environmental conditions, controlled recognized environmental conditions, historical recognized conditions, *de minimis* conditions and additional issues in connection with the Site.

The following findings are based on the results of our assessment:

- Based on the available information it appears that the Site was developed as cultivated cropland/grassland by at least 1948. It appears likely that this was the first developed use of the Site. No structures appear to have been on the Site throughout its history.
- The Site is located north of the city of Paola. Historically the surrounding areas were utilized for grassland/cropland. Currently, there are multiple structures in the vicinity which are utilized for residential and commercial purposes.

H. Opinions

According to the User, the Phase I ESA was conducted in association with the future development of the Site. Opinions expressed herein are influenced by the stated reason for conducting the Phase I ESA. Furthermore, the expressed opinions might not be applicable to alternate reasons for reliance on the content of the Phase I ESA.

H.1. Recognized Environmental Conditions

A REC is defined by ASTM Practice E1527-13 as: “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment, 2) under conditions indicative of a release to the environment: or 3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions.”

This assessment identified no recognized environmental conditions in connection with the Site.

H.2. Controlled Recognized Environmental Conditions

A controlled recognized environmental condition (CREC) is defined by ASTM Practice E1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.”

This assessment identified no controlled recognized environmental conditions in connection with the Site.

H.3. Historical Recognized Environmental Conditions

A historical recognized environmental condition (HREC) is defined by ASTM Practice E1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the Site and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the Site to any required controls.”

This assessment identified no historical recognized environmental conditions (HREC) in connection with the Site.

H.4. *De minimis* Conditions

A *de minimis* condition is defined by ASTM Practice E1527-13 as “a condition that generally does not present a threat to human 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.”

During the site reconnaissance, *de minimis* conditions were not observed, with the exception of the following:

- A portion of the Site is utilized for a community garden. The potential use of small amounts of fertilizer and pesticide/herbicide is, in our opinion, a *de minimis* condition.

I. Conclusions

We have conducted this Phase I ESA of the Site in general conformance with the scope and limitations of ASTM Practice E1527-13. Any exceptions to, or deletions from, this practice are described in Section F of this report.

This assessment identified no recognized environmental conditions, controlled environmental conditions or historical recognized environmental conditions in connection with the Site.

J. References

References are listed in Appendix L.

K. Environmental Professional Statement and Qualifications

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all-appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Qualifications of the environmental professional are attached in Appendix M.

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

BRAUN INTERTEC CORPORATION

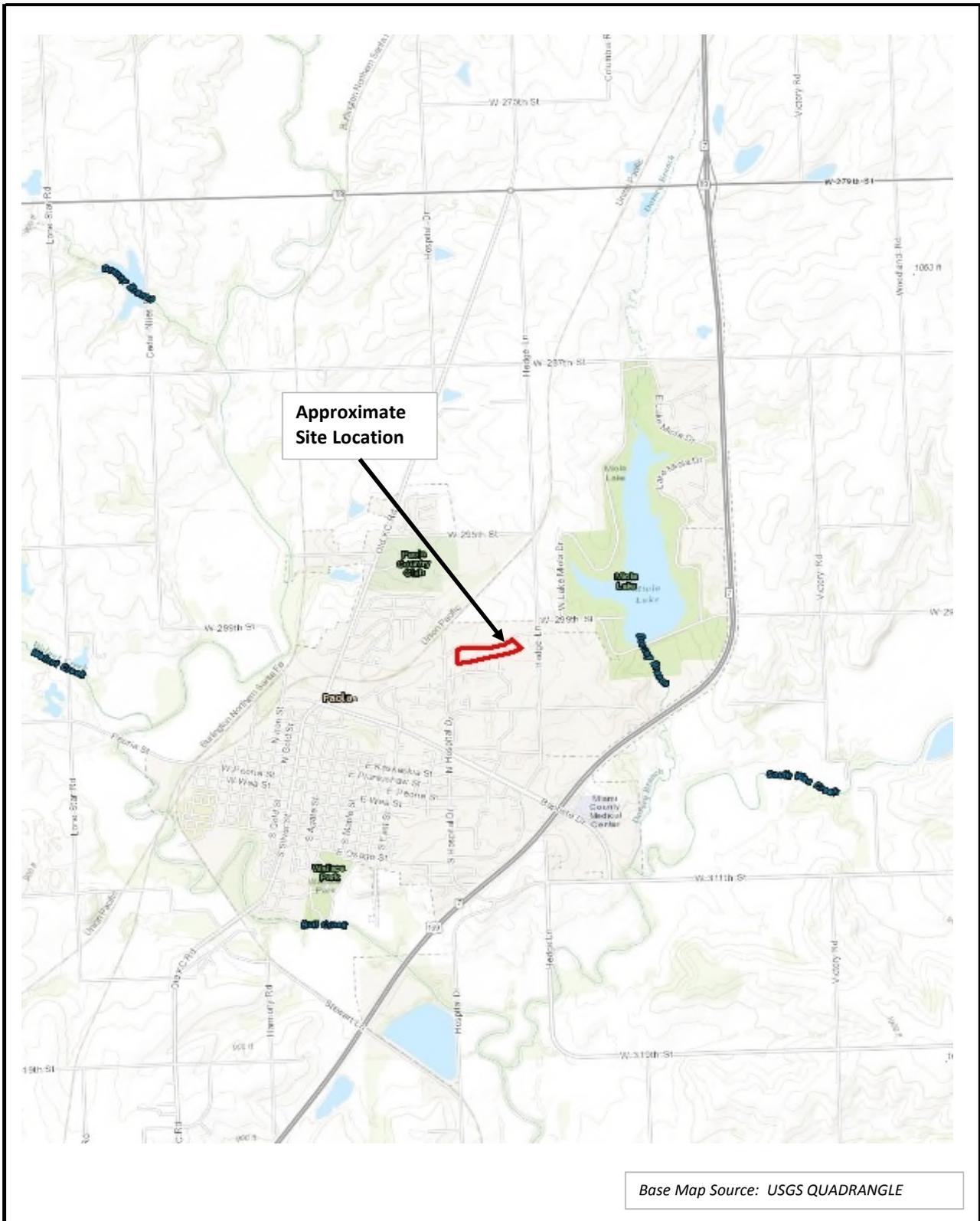


W. Bo Moreland
Project Scientist



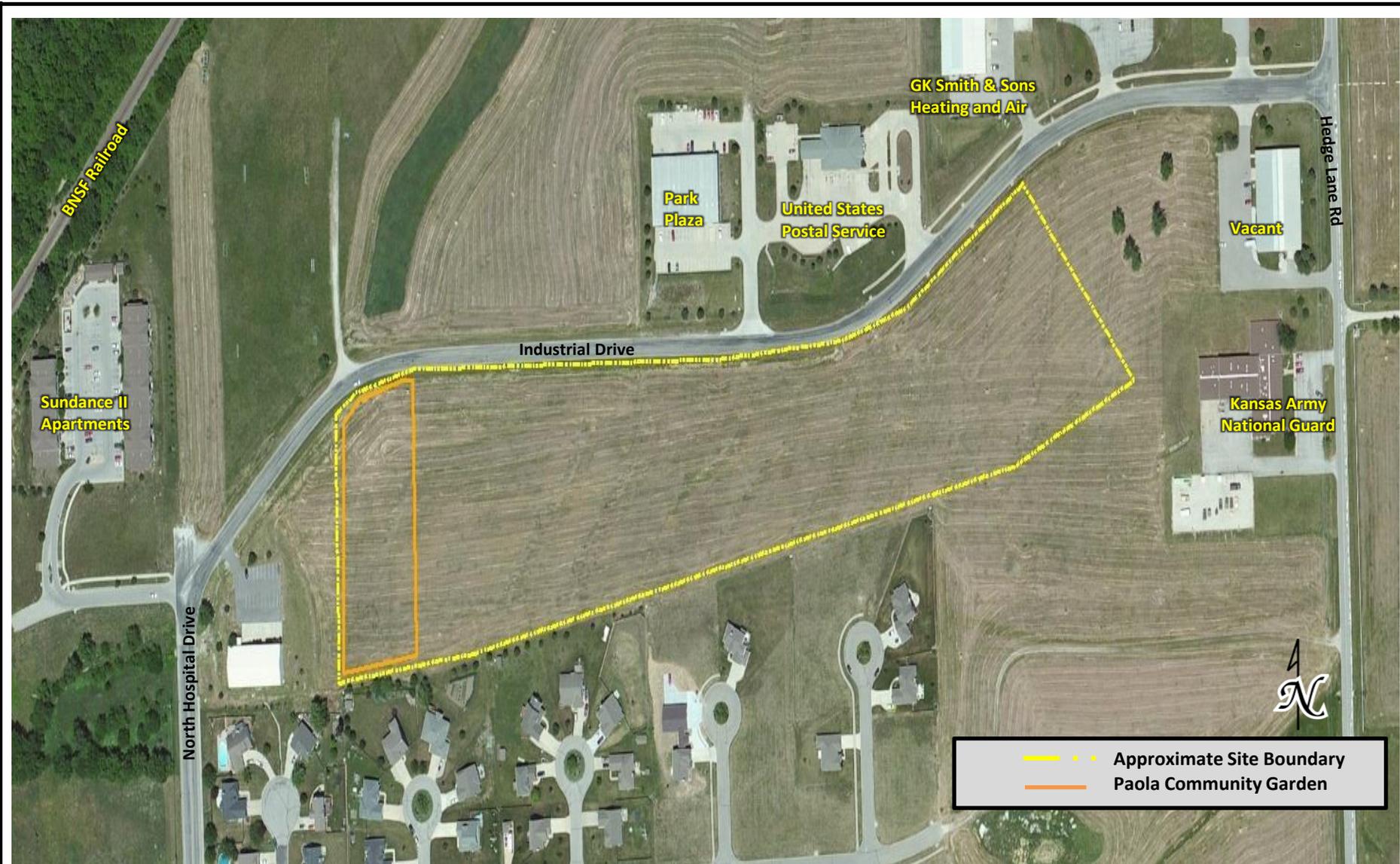
Christopher Busch
Principal Scientist

Appendix A
Site Location Map



	SITE LOCATION MAP 1401 INDUSTRIAL DRIVE & NO # INDUSTRIAL DRIVE		FIGURE 1
	PAOLA BUSINESS PARK SOUTH	DATE: 5/23/2017 DRAWN: WBM CHECKED: CB	

Appendix B
Site Sketch



Base Map Source: Google Earth, Imagery Date 5/23/2014



SITE SKETCH
1401 INDUSTRIAL ROAD

PAOLA - BUSINESS PARK NORTH

PROJECT NO.	B1704612	DATE:	5/23/2017
DRAWN BY:	WBM	SCALE:	Inferred
CHECKED BY:	CB	FILE NO:	Paola

FIGURE 2

Appendix C
Miami County Property Information

Beacon™ Miami County, KS

Summary

Parcel ID 1321003001009040
Quick Ref ID R9560
Property Address 1410 INDUSTRIAL PARK DR
Brief PAOLA INDUSTRIAL PARK BLK 1 SU, S10, T17, R23, ACRES 24.2, W518.9 LT 3 & ALL
Tax Description LTS 4-5-6 & TR BEG NW/C LT 7 TH SELY284.4 NELY333.5 NWLY325.8 SWLY310.8 TO
 POB
 (Note: Not to be used on legal documents)
Taxing Unit Group 003 Paola
Lot Size (SF) N/A
Acreage 24.2
Property Class Exempt
Zoning N/A
Lot Block --- PAOLA INDUSTRIAL PARK BLK 1 SU
Subdivision
S-T-R 10-17-23
Deed Book & Page
Neighborhood 403.3



Property Factors

Topography	Above Street - 2	Parking Type	None - 0
Utilities	All Public - 1	Parking Quantity	None - 0
Access	Paved Road - 1	Parking Proximity	Far - 0
Fronting	Secondary Street - 3	Parking Covered	0
Location	Commercial/Industrial Park - 7	Parking Uncovered	0

Market Land

Method	Type	AC/SF	Class
Acre	Undeveloped - 6	24.20	

Valuation

2017 Appraised Value				2016 Appraised Value			
Class	Land	Building	Total	Class	Land	Building	Total
E	\$370,260	\$0	\$370,260	E	\$370,260	\$0	\$370,260
Total	\$370,260	\$0	\$370,260	Total	\$370,260	\$0	\$370,260

Tax History

2015 Tax Amount	\$0.00	84624
2014 Tax Amount	\$0.00	84563
2013 Tax Amount	\$0.00	74471
2012 Tax Amount	\$0.00	74403

Photos





No data available for the following modules: Sketches, Agricultural Land, Dwelling Information, Commercial Information, Other Building Improvements, Permits.

No warranty, express or implied, is provided for the data herein, or its use.

Last Data Upload: 5/5/2017 10:34:49 PM



Schneider

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Beacon™ Miami County, KS

Summary

Parcel ID 1321003002009080
Quick Ref ID R302570
Property Address INDUSTRIAL PARK DR
Brief PAOLA INDUSTRIAL PARK BLK 1 SU, S10, T17, R23, ACRES 5.2, TR BEG 312.7E SW/C
Tax Description LT 7 PAOLA INDUSTRIAL PARK SUBD TH E172.2 NELY374.2 N378.8 W404.2 SWLY144 S408.6 TO POB
 (Note: Not to be used on legal documents)
Taxing Unit Group 003 Paola
Lot Size (SF) N/A
Acreage 5.2
Property Class Exempt
Zoning N/A
Lot Block --- PAOLA INDUSTRIAL PARK BLK 1 SU
Subdivision
S-T-R 10-17-23
Deed Book & Page
Neighborhood 403.3



Property Factors

Topography	Above Street - 2	Parking Type	None - 0
Utilities	All Public - 1	Parking Quantity	None - 0
Access	Semi Improved Road - 2	Parking Proximity	Far - 0
Fronting	Secondary Street - 3	Parking Covered	0
Location	Commercial/Industrial Park - 7	Parking Uncovered	0

Market Land

Method	Type	AC/SF	Class
Acre	Undeveloped - 6	5.20	

Valuation

2017 Appraised Value				2016 Appraised Value			
Class	Land	Building	Total	Class	Land	Building	Total
E	\$88,400	\$0	\$88,400	E	\$88,400	\$0	\$88,400
Total	\$88,400	\$0	\$88,400	Total	\$88,400	\$0	\$88,400

Tax History

2015 Tax Amount	\$0.00	84513
2014 Tax Amount	\$0.00	84455
2013 Tax Amount	\$0.00	74362
2012 Tax Amount	\$0.00	74294

Photos



No data available for the following modules: Sketches, Agricultural Land, Dwelling Information, Commercial Information, Other Building Improvements, Permits.

No warranty, express or implied, is provided for the data herein, or its use.

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Schneider

Developed by
The Schneider
Corporation

Appendix D

Environmental Data Resources, Inc. Report

Paola Industrial Park
1410 Industrial Park Dr
Paola, KS 66071

Inquiry Number: 4941399.2s
May 18, 2017

The EDR Radius Map™ Report with GeoCheck®



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

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

1410 INDUSTRIAL PARK DR
PAOLA, KS 66071

COORDINATES

Latitude (North): 38.5838210 - 38° 35' 1.75"
Longitude (West): 94.8606210 - 94° 51' 38.23"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 337935.5
UTM Y (Meters): 4272029.0
Elevation: 919 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5687525 PAOLA EAST, KS
Version Date: 2012

West Map: 5689830 PAOLA WEST, KS
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150624
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
1410 INDUSTRIAL PARK DR
PAOLA, KS 66071

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	MFA OIL COMPANY	299TH & HEDGE LANE	AST	Higher	918, 0.174, ENE
2	INDIVIDUAL LANDOWNER	9 CRESTVIEW DR.	LUST	Higher	1891, 0.358, WNW

EXECUTIVE SUMMARY

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
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Identified Sites List

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

CITY DUMPS..... City Dump Listing

State and tribal leaking storage tank lists

LAST..... Leaking Aboveground Storage Tanks

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

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Underground Storage Tank Data

INDIAN UST..... Underground Storage Tanks on Indian Land

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

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

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

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN..... Area of Concern

EXECUTIVE SUMMARY

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

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Kansas Spills Database

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites
ECHO..... Enforcement & Compliance History Information
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
AIRS..... Title V Source Information
COAL ASH..... Coal Ash Disposal Site Listing

EXECUTIVE SUMMARY

DRYCLEANERS..... Registered Drycleaning Facilities
Financial Assurance..... Financial Assurance Information Listing
TIER 2..... Tier 2 Information Listing
UIC..... Underground Injection Wells Database Listing
NPDES..... Wastewater Permit Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List
RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

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 leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Kansas Department of Environmental Protection's LUST Incident Report.

A review of the LUST list, as provided by EDR, and dated 01/18/2017 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INDIVIDUAL LANDOWNER Facility Id: 20229 Facility Status: Closed	9 CRESTVIEW DR.	WNW 1/4 - 1/2 (0.358 mi.)	2	11

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Health & Environment's AST (Report) Listing Including Names.

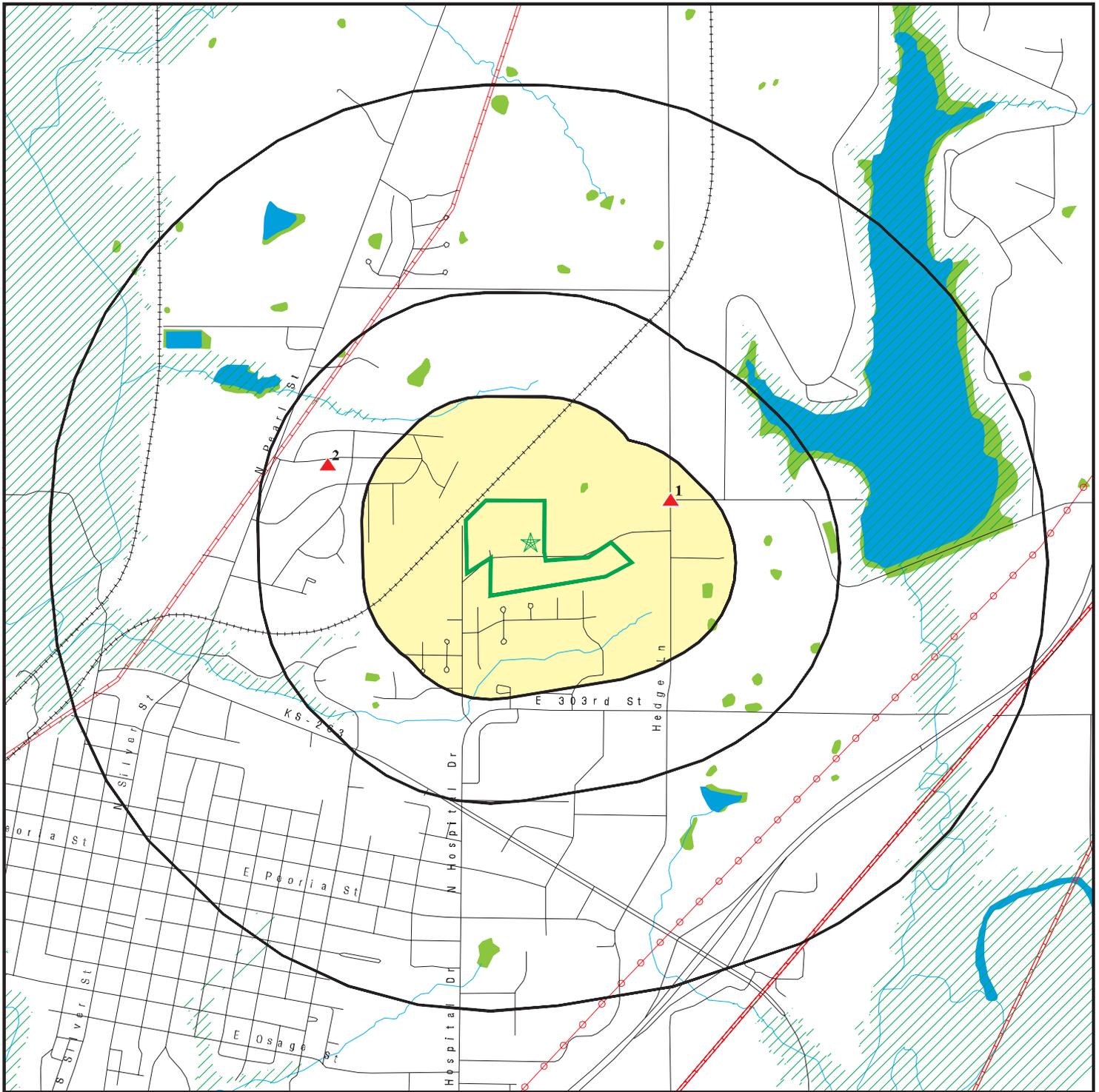
A review of the AST list, as provided by EDR, and dated 04/04/2017 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MFA OIL COMPANY Facility Id: 41698 Tank Status: Permanently Out Of Use Tank Status: Current In Use	299TH & HEDGE LANE	ENE 1/8 - 1/4 (0.174 mi.)	1	8

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4941399.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

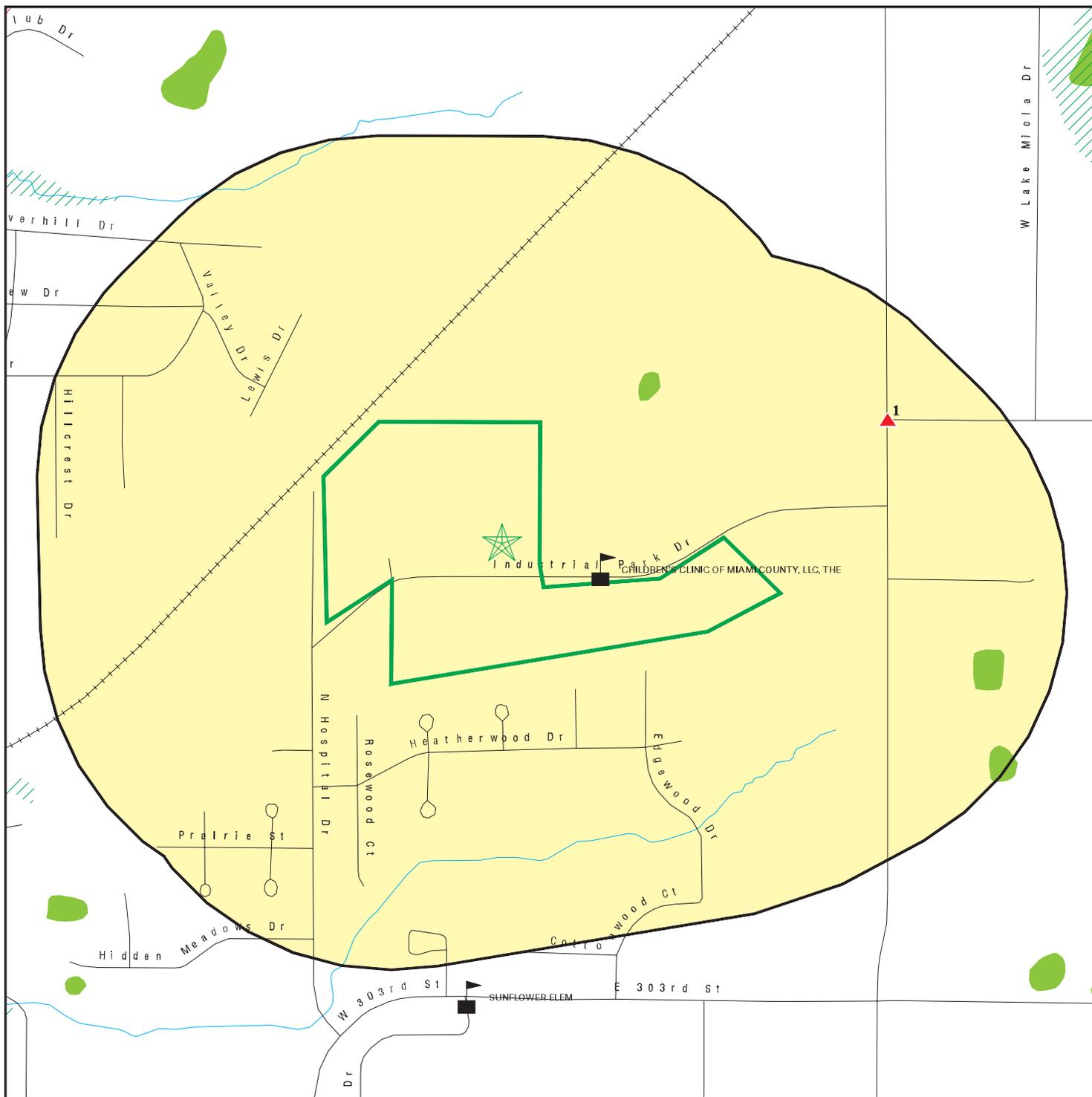
Areas of Concern

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: Paola Industrial Park
 ADDRESS: 1410 Industrial Park Dr
 Paola KS 66071
 LAT/LONG: 38.583821 / 94.860621

CLIENT: Braun Intertec Corporation
 CONTACT: Bo Moreland
 INQUIRY #: 4941399.2s
 DATE: May 18, 2017 8:39 pm

DETAIL MAP - 4941399.2S



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



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: Paola Industrial Park
 ADDRESS: 1410 Industrial Park Dr
 Paola KS 66071
 LAT/LONG: 38.583821 / 94.860621

CLIENT: Braun Intertec Corporation
 CONTACT: Bo Moreland
 INQUIRY #: 4941399.2s
 DATE: May 18, 2017 8:40 pm

MAP FINDINGS SUMMARY

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

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
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MAP FINDINGS SUMMARY

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

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

1
ENE
1/8-1/4
0.174 mi.
918 ft.

MFA OIL COMPANY
299TH & HEDGE LANE
PAOLA, KS 66071

AST **A100336213**
N/A

Relative:
Higher

AST:
 Facility ID: 41698
 Facility 911 Address: 299TH & HEDGE LANE
 Facility 911 City,St,Zip: PAOLA, KS 66071
 Facility Phone: 785-448-5512
 24 Hour Phone Num: 573-999-2489
 Facility District: NE
 Facility Location Method: Not reported
 Facility Feature: Not reported
 Facility Datum: Not reported
 Facility Lat/Long: Not reported
 Owner ID: 05423
 Owner Type: Current
 Owner Name: MFA OIL COMPANY
 Owner Address: P.O. BOX 519
 Owner City,St Zip: COLUMBIA, MO 65205
 Owner County: Not reported
 Owner Phone: 573-442-0171
 Owner Replacement Name: DARIS WYATT
 Owner Replacement Title: DIRECTOR, EHS
 Contact: TRACY BARTH
 Contact Title: Not reported

Actual:
962 ft.

Tank ID: 001
 Capacity (Gals): 13000
 Tank Type: Aboveground
 Tank Status: Permanently Out Of Use
 Tank Empty: Not reported
 Installation Year: 1977
 Date Removed: 7/22/2010
 Last Permit Printed: 2010-06-15 00:00:00
 Current Permit Printed: Not reported
 QTY remaining in Tank: 13,000
 Out of service Mo/Yr: 072010
 Material of Construction: Not reported
 Petroleum Substance: Not reported
 NonPetroleum Substance: Not reported
 Piping: Not reported
 Hazards: Not reported
 Tank Internal Protection: Not reported
 Tank External Protection: Not reported
 Principal CERCLA Substance/Chem Abstract Service Num: Not reported

Tank ID: 002
 Capacity (Gals): 12000
 Tank Type: Aboveground
 Tank Status: Current In Use
 Tank Empty: Not reported
 Installation Year: 1977
 Date Removed: Not reported
 Last Permit Printed: 2015-10-01 00:00:00
 Current Permit Printed: 2016-06-14 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MFA OIL COMPANY (Continued)

A100336213

QTY remaining in Tank: 0
Out of service Mo/Yr: Not reported
Material of Construction: Not reported
Petroleum Substance: Diesel Dyed Red
NonPetroleum Substance: Not reported
Piping: Not reported
Hazards: Fire,Chronic,Acute
Tank Internal Protection: Not reported
Tank External Protection: Not reported
Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6

Tank ID: 003
Capacity (Gals): 13000
Tank Type: Aboveground
Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 1977
Date Removed: Not reported
Last Permit Printed: 2015-10-01 00:00:00
Current Permit Printed: 2016-06-14 00:00:00
QTY remaining in Tank: 0
Out of service Mo/Yr: Not reported
Material of Construction: Not reported
Petroleum Substance: Diesel Dyed Red
NonPetroleum Substance: Not reported
Piping: Not reported
Hazards: Fire,Chronic,Acute
Tank Internal Protection: Not reported
Tank External Protection: Not reported
Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6

Tank ID: 004
Capacity (Gals): 12000
Tank Type: Aboveground
Tank Status: Permanently Out Of Use
Tank Empty: Not reported
Installation Year: 1977
Date Removed: 7/22/2010
Last Permit Printed: 2010-06-15 00:00:00
Current Permit Printed: Not reported
QTY remaining in Tank: 12,000
Out of service Mo/Yr: 072010
Material of Construction: Not reported
Petroleum Substance: Not reported
NonPetroleum Substance: Not reported
Piping: Not reported
Hazards: Not reported
Tank Internal Protection: Not reported
Tank External Protection: Not reported
Principal CERCLA Substance/Chem Abstract Service Num: Not reported

Tank ID: 005
Capacity (Gals): 12000
Tank Type: Aboveground

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MFA OIL COMPANY (Continued)

A100336213

Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 1977
Date Removed: Not reported
Last Permit Printed: 2015-10-01 00:00:00
Current Permit Printed: 2016-06-14 00:00:00
QTY remaining in Tank: 0
Out of service Mo/Yr: Not reported
Material of Construction: Not reported
Petroleum Substance: Gas Unleaded Regular
NonPetroleum Substance: Not reported
Piping: Not reported
Hazards: Fire,Chronic,Acute
Tank Internal Protection: Not reported
Tank External Protection: Not reported
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9

Tank ID: 006
Capacity (Gals): 10000
Tank Type: Aboveground
Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 2006
Date Removed: Not reported
Last Permit Printed: 2015-10-01 00:00:00
Current Permit Printed: 2016-06-14 00:00:00
QTY remaining in Tank: Not reported
Out of service Mo/Yr: Not reported
Material of Construction: Not reported
Petroleum Substance: Diesel Clear
NonPetroleum Substance: Not reported
Piping: Bare Steel
Hazards: Fire,Chronic,Acute
Tank Internal Protection: Not reported
Tank External Protection: Painted
Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6

Tank ID: 007
Capacity (Gals): 10000
Tank Type: Aboveground
Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 2006
Date Removed: Not reported
Last Permit Printed: 2015-10-01 00:00:00
Current Permit Printed: 2016-06-14 00:00:00
QTY remaining in Tank: Not reported
Out of service Mo/Yr: Not reported
Material of Construction: Not reported
Petroleum Substance: Diesel Clear
NonPetroleum Substance: Not reported
Piping: Bare Steel
Hazards: Fire,Chronic,Acute
Tank Internal Protection: Not reported
Tank External Protection: Painted

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MFA OIL COMPANY (Continued)

A100336213

Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6

Tank ID: 008
Capacity (Gals): 15000
Tank Type: Aboveground
Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 2010
Date Removed: Not reported
Last Permit Printed: 2015-10-01 00:00:00
Current Permit Printed: 2016-06-14 00:00:00
QTY remaining in Tank: Not reported
Out of service Mo/Yr: Not reported
Material of Construction: Not reported
Petroleum Substance: Diesel Dyed Red
NonPetroleum Substance: Not reported
Piping: Bare Steel
Hazards: Fire,Chronic,Acute
Tank Internal Protection: Not reported
Tank External Protection: Painted
Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6

Tank ID: 009
Capacity (Gals): 15000
Tank Type: Aboveground
Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 2010
Date Removed: Not reported
Last Permit Printed: 2015-10-01 00:00:00
Current Permit Printed: 2016-06-14 00:00:00
QTY remaining in Tank: Not reported
Out of service Mo/Yr: Not reported
Material of Construction: Not reported
Petroleum Substance: Gas Unleaded Regular
NonPetroleum Substance: Not reported
Piping: Bare Steel
Hazards: Fire,Chronic,Acute
Tank Internal Protection: Not reported
Tank External Protection: Painted
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9

2
WNW
1/4-1/2
0.358 mi.
1891 ft.

INDIVIDUAL LANDOWNER
9 CRESTVIEW DR.
PAOLA, KS

LUST S106782045
N/A

Relative:
Higher

LUST:
Facility ID: 20229
Site Status: Closed
Release Date: Not reported
Initial Report Date: 06/06/1989
Project Number: U4-061-00254
Project Name: Hamlin Rental
Legal Desc Section: 20

Actual:
922 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDIVIDUAL LANDOWNER (Continued)

S106782045

Legal Desc Township: 17S
Legal Desc Range: 23E
Discover Date: 06/06/1989
substrels: gasoline
Initial Ranking: Not reported
Current Ranking: Not reported
Facility Contact: Norma Sprigg
Facility Phone Number: 913-294-3101
Facility Owner Identification number: 20229
Facility Owner: Not reported
Owner Contact Person: Not reported
Owner Address: 9 Crestview Dr.,paola
Owner City: Not reported
Owner State: KS
Owner Zip Code: Not reported
Owner Phone number: 913-294-3101
Contractor license number: Not reported
Contractor phone number: 816-921-5032
Leak duration (if known): 0
Quantity released (if known): Not reported
Quantity recorded: Not reported
Leak Type: Other
Reported By: Double Check Co.
Reported by persons phone number: Not reported
Reported by person address: Not reported
Ground water Impacted (yes/no): small amount of seepage from mantle-soil contact of about 7'. bedrock in broken, weathered limestone overlying clay shale in bottom of tank excavation.

Static groundwater level: Not reported
Groundwater flow direction: Not reported
District staff names: Marvin Glotzbach
Assessment of release: tanks were 25 years old--(2) 1000 gal. tanks in separate excavations (150' apart).the area around one tank had no odor and did not indicate any contamination. there was odor in the second tank excavation and the soils tested 300 ppm tph.

Contamination assesement: tanks removed.
Extent of contamination impact: small amount of gassy odor material floating on seepage water in one tank excavation,although there is no liquid product.any contamination seeping past this area at the mantle bedrock contact may be slightly contaminated. this is a rural area.

Updated information: Not reported
Invoice initiated: 19893
Invoice on going: Not reported
Invoice completetd: 19893
Release confirmed: Not reported
Emergency contact: Not reported
Enforcement action: Not reported
Cost recovery: Not reported
Cost recovery initiated: Not reported
Cost recovery initiated by: Not reported
Cost recovery completed: Not reported
Cost recovery completed by: Not reported
Application to trust fund: Not reported

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/25/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016	Source: EPA
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 12/28/2016	Source: Department of the Navy
Date Data Arrived at EDR: 01/04/2017	Telephone: 843-820-7326
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/15/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/12/2017
	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: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
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: 01/18/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 04/05/2017
Number of Days to Update: 71

Source: Department of Health and Environment
Telephone: 785-296-1660
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
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: 11/28/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 22

Source: Department of Health and Environment
Telephone: 785-296-1590
Last EDR Contact: 04/12/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

CITY DUMPS: City Dump Listing

The City Dump Cleanup Program provides funds to cities or counties for the repair of old, unused municipal dump sites. These sites primarily operated between the 1940s and the 1970s before many counties had landfills and prior to the current regulations for solid waste disposal.

Date of Government Version: 11/28/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 01/04/2017
Number of Days to Update: 36

Source: Department of Health & Environment
Telephone: 785-296-6377
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tanks

Leaking aboveground storage tank site locations.

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 04/05/2017
Number of Days to Update: 71

Source: Department of Health & Environment
Telephone: 785-296-1685
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/18/2017	Source: Department of Health and Environment
Date Data Arrived at EDR: 01/24/2017	Telephone: 785-296-1685
Date Made Active in Reports: 04/05/2017	Last EDR Contact: 04/03/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 07/17/2017
	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: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-6597
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016	Source: EPA Region 8
Date Data Arrived at EDR: 01/26/2017	Telephone: 303-312-6271
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 10/06/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3372
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016	Source: EPA Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-7439
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/11/2017
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Varies

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: 04/04/2017	Source: Department of Health and Environment
Date Data Arrived at EDR: 04/13/2017	Telephone: 785-296-1685
Date Made Active in Reports: 05/02/2017	Last EDR Contact: 04/03/2017
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Data

Registered Aboveground Storage Tanks.

Date of Government Version: 04/04/2017	Source: Department of Health and Environment
Date Data Arrived at EDR: 04/13/2017	Telephone: 785-296-1685
Date Made Active in Reports: 05/02/2017	Last EDR Contact: 04/03/2017
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

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: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/14/2016	Source: EPA, Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

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: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

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: 01/14/2017	Source: EPA Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-6136
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-7591
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

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: 10/06/2016	Source: EPA Region 9
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3368
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/17/2016	Source: EPA Region 8
Date Data Arrived at EDR: 01/26/2017	Telephone: 303-312-6137
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

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: 10/17/2016	Source: Department of Health & Environment
Date Data Arrived at EDR: 10/21/2016	Telephone: 785-296-8049
Date Made Active in Reports: 01/04/2017	Last EDR Contact: 04/10/2017
Number of Days to Update: 75	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCP: Identified Sites List

Sites included in the Identified Sites List that are identified as Voluntary Cleanup sites.

Date of Government Version: 01/18/2017	Source: Department of Health & Environment
Date Data Arrived at EDR: 01/24/2017	Telephone: 785-296-8049
Date Made Active in Reports: 04/05/2017	Last EDR Contact: 04/11/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/27/2017
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Varies

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: 01/18/2017	Source: Department of Health & Environment
Date Data Arrived at EDR: 01/24/2017	Telephone: 785-296-8049
Date Made Active in Reports: 04/05/2017	Last EDR Contact: 04/11/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 03/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2017	Telephone: 202-566-2777
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 03/02/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 05/01/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/14/2017
	Data Release Frequency: Varies

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	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 04/24/2017
Number of Days to Update: 137	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: No Update Planned

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 05/05/2017
Number of Days to Update: 176	Next Scheduled EDR Contact: 08/14/2017
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

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 contaminants 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: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

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: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

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

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

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/28/2016	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 12/28/2016	Telephone: 202-366-4555
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 03/29/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Annually

SPILLS 2: Spills Database

All spills reported under the regulatory authority of the Kansas Corporation Commission.

Date of Government Version: 10/11/2016	Source: Kansas Corporation Commission
Date Data Arrived at EDR: 10/12/2016	Telephone: 316-337-6626
Date Made Active in Reports: 12/20/2016	Last EDR Contact: 04/24/2017
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Varies

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: 10/18/2016	Source: Department of Health and Environment
Date Data Arrived at EDR: 10/25/2016	Telephone: 785-296-1660
Date Made Active in Reports: 01/13/2017	Last EDR Contact: 04/12/2017
Number of Days to Update: 80	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Semi-Annually

Other Ascertainable Records

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

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 02/24/2017
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/05/2017
	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	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2017
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2017
Number of Days to Update: 339	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/03/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/29/2017
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 02/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/15/2017	Telephone: 202-566-1917
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 05/17/2017
Number of Days to Update: 86	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

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

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/08/2017
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/21/2017
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 05/05/2017
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/21/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 03/24/2017
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 02/24/2017
Number of Days to Update: 133	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/26/2017
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 03/06/2017
Number of Days to Update: 74	Next Scheduled EDR Contact: 06/19/2017
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 02/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/09/2017	Telephone: 202-564-8600
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 57	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

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

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/09/2017
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/21/2017
	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: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 04/10/2017
Number of Days to Update: 127	Next Scheduled EDR Contact: 07/24/2017
	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: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/10/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

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

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

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

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

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

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

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

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

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

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

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

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

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

DOT OPS: Incident and Accident Data

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

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

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

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

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

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 04/14/2017
Number of Days to Update: 546	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 05/05/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/21/2017
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 02/21/2017
Number of Days to Update: 146	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8787
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

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

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/04/2017	Source: EPA
Date Data Arrived at EDR: 04/07/2017	Telephone: (913) 551-7003
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/07/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/19/2017
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 04/17/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2017	Telephone: 202-564-2280
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 03/21/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 02/24/2017
Number of Days to Update: 91	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017	Source: EPA
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-385-6164
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 02/22/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Quarterly

AIRS: Title V Source Information

A listing of title V sources, including emissions information.

Date of Government Version: 12/31/2015	Source: Department of Health & Environment
Date Data Arrived at EDR: 11/15/2016	Telephone: 785-296-6427
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 03/27/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal combustion waste landfills.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 10/21/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 61

Source: Department of Health & Environment
Telephone: 785-296-1600
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

DRYCLEANERS: Registered Drycleaning Facilities

A listing of registered drycleaners.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 54

Source: Department of Health & Environment
Telephone: 785-291-3250
Last EDR Contact: 02/27/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

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: 04/04/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 19

Source: Department of Health & Environment
Telephone: 785-296-1685
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

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: 12/31/2015
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 07/19/2016
Number of Days to Update: 21

Source: Department of Health & Environment
Telephone: 785-296-1688
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Annually

UIC: Underground Injection Wells Database Listing

A listing of underground injection wells.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 48

Source: Department of Health & Environment
Telephone: 785-296-1367
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

NPDES: Wastewater Permit Listing

A listing of facilities with wastewater permits.

Date of Government Version: 09/15/2016
Date Data Arrived at EDR: 10/06/2016
Date Made Active in Reports: 12/20/2016
Number of Days to Update: 75

Source: Department of Health & Environment
Telephone: 785-296-5517
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

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

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health and Environment
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

Date of Government Version: N/A	Source: Department of Health and Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/20/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 203	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

Date of Government Version: N/A	Source: Department of Health and Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/19/2013	Telephone: 860-424-3375
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 05/15/2017
Number of Days to Update: 45	Next Scheduled EDR Contact: 08/28/2017
	Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/01/2017	Telephone: 518-402-8651
Date Made Active in Reports: 02/13/2017	Last EDR Contact: 05/03/2017
Number of Days to Update: 12	Next Scheduled EDR Contact: 08/14/2017
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/19/2015	Telephone: 401-222-2797
Date Made Active in Reports: 07/15/2015	Last EDR Contact: 02/21/2017
Number of Days to Update: 26	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015

Date Data Arrived at EDR: 04/14/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 50

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/13/2017

Next Scheduled EDR Contact: 06/26/2017

Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PAOLA INDUSTRIAL PARK
1410 INDUSTRIAL PARK DR
PAOLA, KS 66071

TARGET PROPERTY COORDINATES

Latitude (North):	38.583821 - 38° 35' 1.76"
Longitude (West):	94.860621 - 94° 51' 38.24"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	337935.5
UTM Y (Meters):	4272029.0
Elevation:	919 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5687525 PAOLA EAST, KS
Version Date:	2012
West Map:	5689830 PAOLA WEST, KS
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

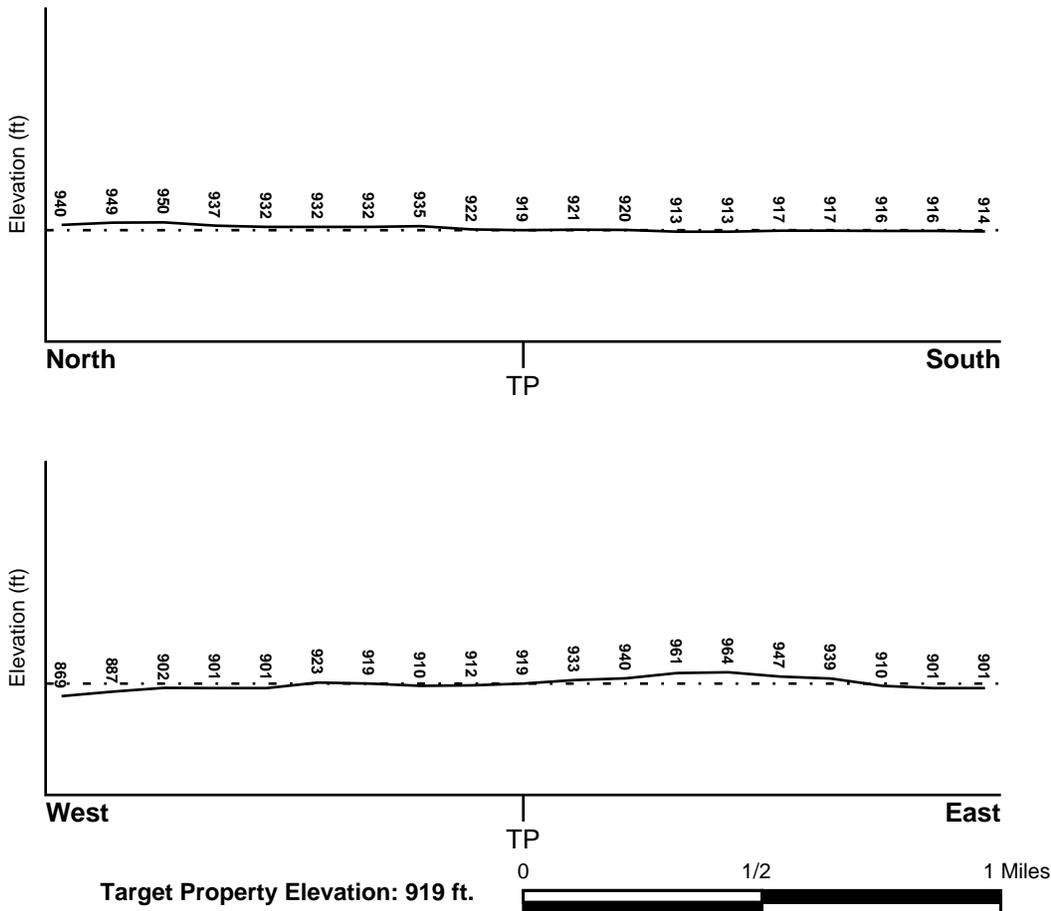
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General 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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
20121C0178D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
20121C0180D	FEMA FIRM Flood data
20121C0159D	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
PAOLA EAST	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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

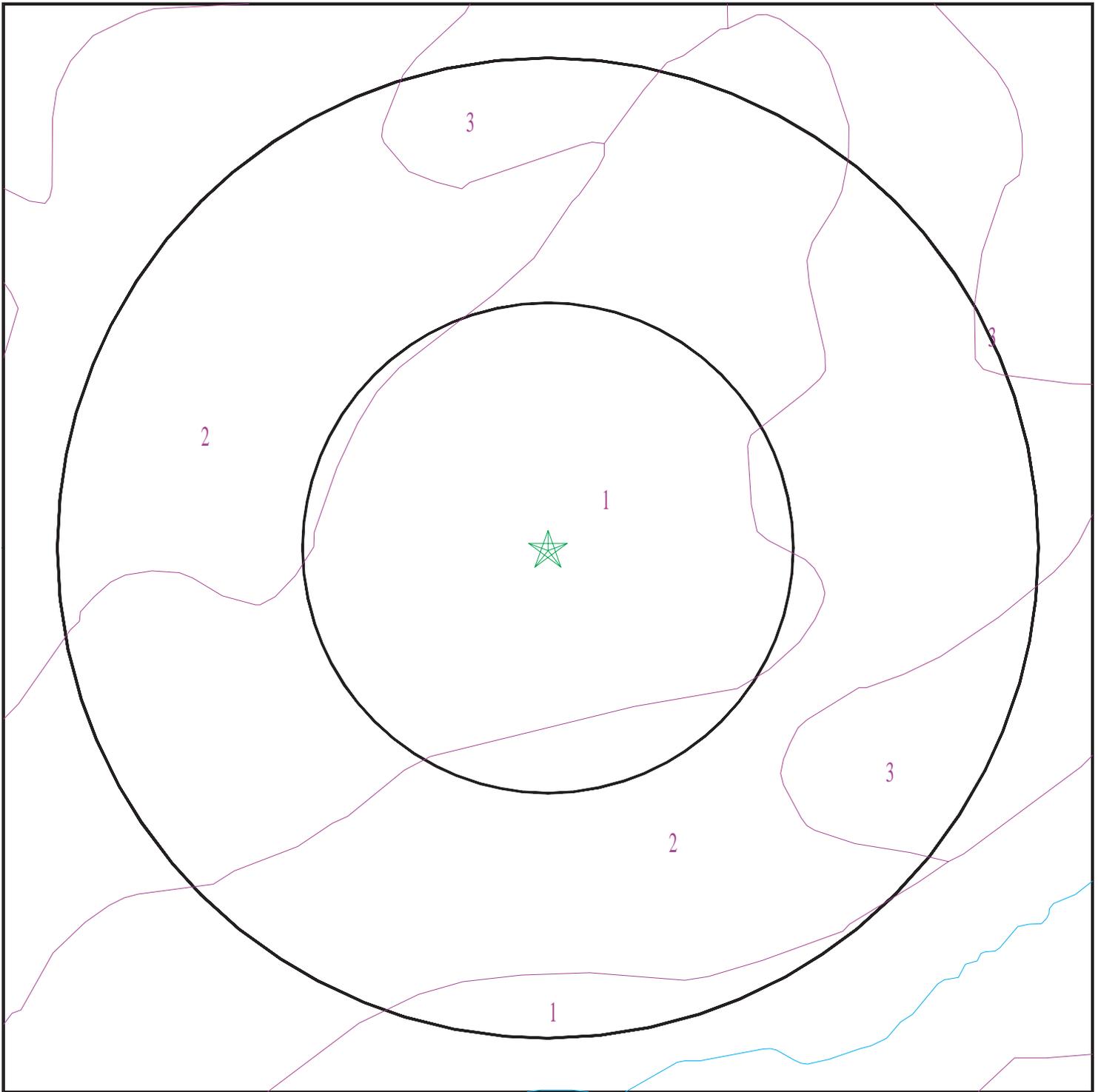
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4941399.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Paola Industrial Park
ADDRESS: 1410 Industrial Park Dr
Paola KS 66071
LAT/LONG: 38.583821 / 94.860621

CLIENT: Braun Intertec Corporation
CONTACT: Bo Moreland
INQUIRY #: 4941399.2s
DATE: May 18, 2017 8:40 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Summit

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							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 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: 1.411	Max: 7.3 Min: 5.6
2	11 inches	24 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: 7.3 Min: 5.6
3	24 inches	42 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: 7.3 Min: 5.6
4	42 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: 0.4233 Min: 0.01	Max: 8.4 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Dennis

Soil Surface Texture: silt 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: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 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: 6 Min: 5.1
2	11 inches	16 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: 4.233 Min: 1.411	Max: 6 Min: 5.1
3	24 inches	35 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: 6.5 Min: 5.1
4	48 inches	79 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
5	35 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
6	16 inches	24 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: 6.5 Min: 5.1

Soil Map ID: 3

Soil Component Name: Kenoma

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 36 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 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 Soils.	Max: 4.233 Min: 1.411	Max: 6.5 Min: 5.1
2	5 inches	11 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 Soils.	Max: 4.233 Min: 1.411	Max: 6.5 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	11 inches	33 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: 0.4233 Min: 0.01	Max: 7.8 Min: 5.1
4	33 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: 8.4 Min: 6.1

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

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	KS8000000148978	1/8 - 1/4 Mile WSW
2	KS8000000145166	1/4 - 1/2 Mile NW
3	KS8000000220915	1/4 - 1/2 Mile ENE
A4	KS8000000116490	1/4 - 1/2 Mile WNW
A5	KS8000000116489	1/4 - 1/2 Mile WNW
A6	KS8000000131749	1/4 - 1/2 Mile WNW
A7	KS8000000131748	1/4 - 1/2 Mile WNW
B8	KS8000000126928	1/4 - 1/2 Mile ENE
B9	KS8000000150401	1/4 - 1/2 Mile ENE
10	KS8000000216385	1/4 - 1/2 Mile SE
11	KS8000000184480	1/2 - 1 Mile South
12	KS8000000039758	1/2 - 1 Mile West
13	KS8000000176099	1/2 - 1 Mile WNW
C14	KS8000000198932	1/2 - 1 Mile WSW
C15	KS8000000198930	1/2 - 1 Mile WSW
C16	KS8000000198929	1/2 - 1 Mile WSW
C17	KS8000000198934	1/2 - 1 Mile WSW
C18	KS8000000198939	1/2 - 1 Mile WSW
C19	KS8000000198937	1/2 - 1 Mile WSW
C20	KS8000000198936	1/2 - 1 Mile WSW
21	KS8000000154391	1/2 - 1 Mile NNW
22	KS8000000114743	1/2 - 1 Mile SSE
23	KS8000000142502	1/2 - 1 Mile NW
24	KS8000000115671	1/2 - 1 Mile SSW
25	KS8000000205989	1/2 - 1 Mile SSW
26	KS8000000214532	1/2 - 1 Mile South
D27	KS8000000118622	1/2 - 1 Mile South
D28	KS8000000118621	1/2 - 1 Mile South
D29	KS8000000118624	1/2 - 1 Mile South
D30	KS8000000118623	1/2 - 1 Mile South
E31	KS8000000168703	1/2 - 1 Mile WSW
E32	KS8000000168704	1/2 - 1 Mile WSW
E33	KS8000000168702	1/2 - 1 Mile WSW
E34	KS8000000168700	1/2 - 1 Mile WSW
E35	KS8000000168701	1/2 - 1 Mile WSW
E36	KS8000000192309	1/2 - 1 Mile WSW
E37	KS8000000192313	1/2 - 1 Mile WSW
E38	KS8000000192314	1/2 - 1 Mile WSW
E39	KS8000000192312	1/2 - 1 Mile WSW
E40	KS8000000192310	1/2 - 1 Mile WSW
E41	KS8000000192311	1/2 - 1 Mile WSW
E42	KS8000000137978	1/2 - 1 Mile WSW
E43	KS8000000137979	1/2 - 1 Mile WSW
E44	KS8000000168699	1/2 - 1 Mile WSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

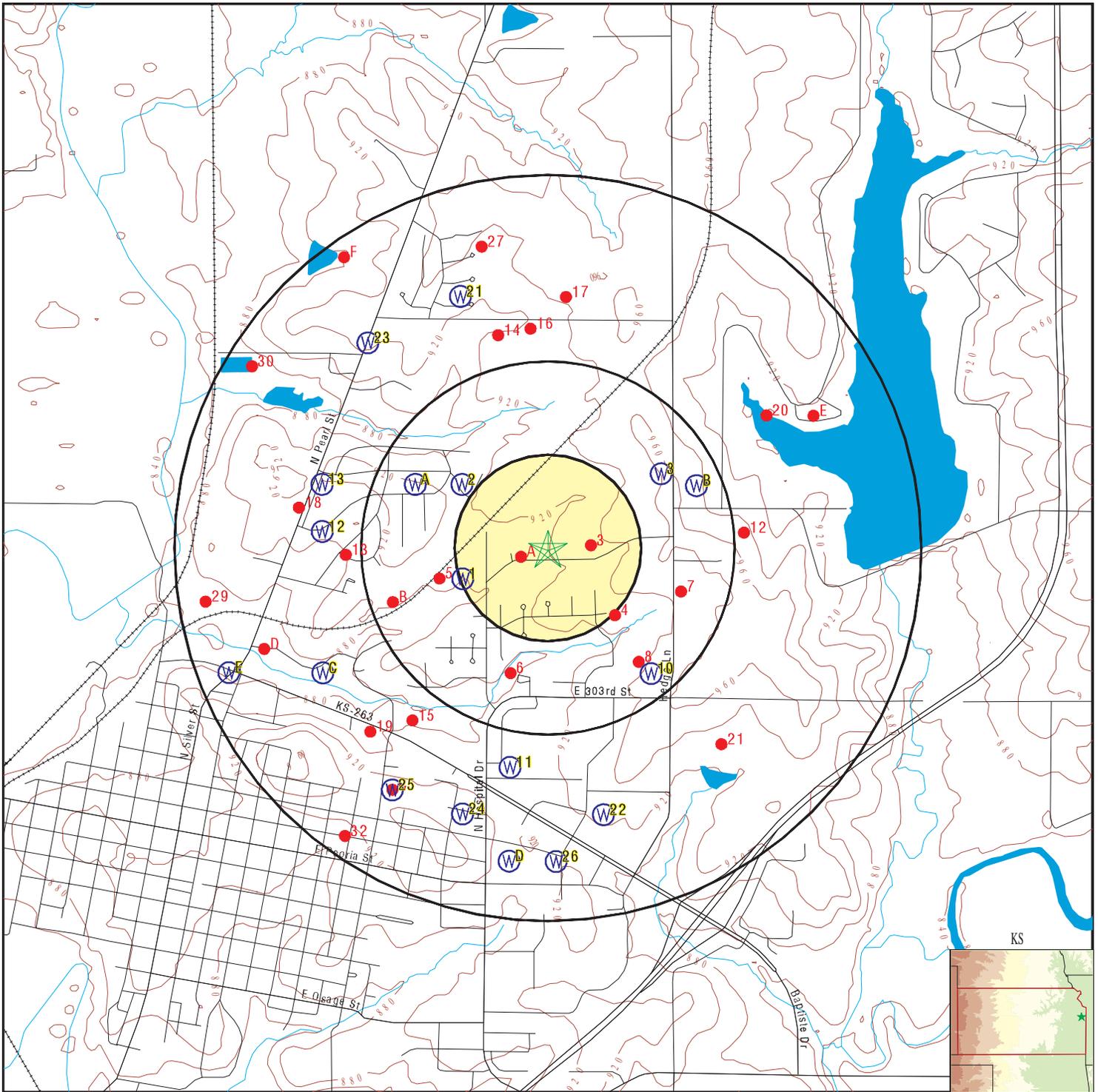
MAP ID	WELL ID	LOCATION FROM TP
A1	KSOG11000269508	0 - 1/8 Mile West
A2	KSOG11000374088	0 - 1/8 Mile SW
3	KSOG11000232585	0 - 1/8 Mile East

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

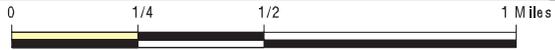
MAP ID	WELL ID	LOCATION FROM TP
4	KSOG11000232584	1/4 - 1/2 Mile SE
5	KSOG11000285529	1/4 - 1/2 Mile WSW
6	KSOG11000293417	1/4 - 1/2 Mile SSW
7	KSOG11000391204	1/4 - 1/2 Mile ESE
8	KSOG11000232583	1/4 - 1/2 Mile SE
B10	KSOG11000230625	1/4 - 1/2 Mile WSW
B11	KSOG11000230626	1/4 - 1/2 Mile WSW
B9	KSOG11000230624	1/4 - 1/2 Mile WSW
12	KSOG11000028260	1/2 - 1 Mile East
13	KSOG11000028255	1/2 - 1 Mile West
14	KSOG11000306269	1/2 - 1 Mile NNW
15	KSOG11000394606	1/2 - 1 Mile SW
16	KSOG11000264226	1/2 - 1 Mile North
17	KSOG11000028485	1/2 - 1 Mile North
18	KSOG11000259106	1/2 - 1 Mile West
19	KSOG11000256197	1/2 - 1 Mile SW
20	KSOG11000370236	1/2 - 1 Mile ENE
21	KSOG11000112886	1/2 - 1 Mile SE
C23	KSOG11000221421	1/2 - 1 Mile SSW
C22	KSOG11000208975	1/2 - 1 Mile SSW
D24	KSOG11000028389	1/2 - 1 Mile WSW
E25	KSOG11000028258	1/2 - 1 Mile ENE
E26	KSOG11000028259	1/2 - 1 Mile ENE
27	KSOG11000325323	1/2 - 1 Mile NNW
D28	KSOG11000294015	1/2 - 1 Mile WSW
29	KSOG11000230623	1/2 - 1 Mile West
30	KSOG11000028257	1/2 - 1 Mile WNW
F31	KSOG11000028489	1/2 - 1 Mile NW
32	KSOG11000268299	1/2 - 1 Mile SW
F33	KSOG11000198320	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 4941399.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells



SITE NAME: Paola Industrial Park
 ADDRESS: 1410 Industrial Park Dr
 Paola KS 66071
 LAT/LONG: 38.583821 / 94.860621

CLIENT: Braun Intertec Corporation
 CONTACT: Bo Moreland
 INQUIRY #: 4941399.2s
 DATE: May 18, 2017 8:40 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
WSW
1/8 - 1/4 Mile
Lower

KS WELLS KS8000000148978

Well id:	334264	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SE NE SE
Longitude:	-94.864587		
Latitude:	38.5826069		
Long lat t:	From PLSS		
Owner:	Cohen-Esre	Well use:	Lawn and Garden - domestic only
Comple dat:	21-Nov-2002	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	from Baptist and Hospital Dr: .5 mi N, 500' W		
Well depth:	125		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1044030627		
Site id:	KS8000000148978		

2
NW
1/4 - 1/2 Mile
Lower

KS WELLS KS8000000145166

Well id:	330101	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SE SE NE
Longitude:	-94.8646289		
Latitude:	38.5862757		
Long lat t:	From PLSS		
Owner:	Burrows, L	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	02-Oct-2002	Status:	CONSTRUCTED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	704 Lewis Dr, Paola (3-160' Bores)		
Well depth:	160		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1040448166		
Site id:	KS8000000145166		

3
ENE
1/4 - 1/2 Mile
Higher

KS WELLS KS8000000220915

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	444060	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	10	Spot:	NE SE SE NW
Longitude:	-94.8547741		
Latitude:	38.5866927		
Long lat t:	From PLSS		
Owner:	Hager, Gle	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	09-May-2011	Status:	CONSTRUCTED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	29810 Hedge Lane, Paola (3 at 350')		
Well depth:	350		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1043916942		
Site id:	KS8000000220915		

**A4
WNW
1/4 - 1/2 Mile
Higher**

KS WELLS KS8000000116490

Well id:	118731	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE NE
Longitude:	-94.8669349		
Latitude:	38.5862771		
Long lat t:	From PLSS		
Owner:	EZ Shop, I	Well use:	Monitoring well/observation/piezometer
Comple dat:	13-May-1997	Status:	CONSTRUCTED
Other id:	MW 1		
Dwr number:	Not Reported		
Directions:	602 N Pearl, Paola		
Well depth:	25		
Elev:	Not Reported	Static dep:	11.38
Est yield:	Not Reported		
Driller:	Associated Environmental, Inc.		
Well kid:	1040394944		
Site id:	KS8000000116490		

**A5
WNW
1/4 - 1/2 Mile
Higher**

KS WELLS KS8000000116489

Well id:	118730	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE NE
Longitude:	-94.8669349		
Latitude:	38.5862771		
Long lat t:	From PLSS		
Owner:	EZ Shop, I	Well use:	Monitoring well/observation/piezometer
Comple dat:	13-May-1997	Status:	CONSTRUCTED
Other id:	MW 2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dwr number:	Not Reported		
Directions:	602 N Pearl, Paola		
Well depth:	18		
Elev:	Not Reported	Static dep:	1.94
Est yield:	Not Reported		
Driller:	Associated Environmental, Inc.		
Well kid:	1040394942		
Site id:	KS8000000116489		

**A6
WNW
1/4 - 1/2 Mile
Higher**

KS WELLS KS8000000131749

Well id:	315221	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE NE
Longitude:	-94.8669349		
Latitude:	38.5862771		
Long lat t:	From PLSS		
Owner:	EZ Shop, I	Well use:	Monitoring well/observation/piezometer
Comple dat:	25-Jul-2000	Status:	PLUGGED
Other id:	MW 2		
Dwr number:	Not Reported		
Directions:	602 N Pearl, Paola		
Well depth:	18		
Elev:	Not Reported	Static dep:	4.8
Est yield:	Not Reported		
Driller:	Fleer & Assoc., Inc.		
Well kid:	1040394942		
Site id:	KS8000000131749		

**A7
WNW
1/4 - 1/2 Mile
Higher**

KS WELLS KS8000000131748

Well id:	315220	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE NE
Longitude:	-94.8669349		
Latitude:	38.5862771		
Long lat t:	From PLSS		
Owner:	EZ Shop, I	Well use:	Monitoring well/observation/piezometer
Comple dat:	25-Jul-2000	Status:	PLUGGED
Other id:	MW 1		
Dwr number:	Not Reported		
Directions:	602 N Pearl, Paola		
Well depth:	25		
Elev:	Not Reported	Static dep:	3.92
Est yield:	Not Reported		
Driller:	Fleer & Assoc., Inc.		
Well kid:	1040394944		
Site id:	KS8000000131748		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B8
ENE
1/4 - 1/2 Mile
Higher

KS WELLS KS8000000126928

Well id:	310307	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	10	Spot:	SW SW NE
Longitude:	-94.8530279		
Latitude:	38.5862279		
Long lat t:	From PLSS		
Owner:	Iron, Vern	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	Not Reported	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	29776 W Lake Miola Dr, Paola (4-150' bores)		
Well depth:	150		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Vern Iron		
Well kid:	1044030618		
Site id:	KS8000000126928		

B9
ENE
1/4 - 1/2 Mile
Higher

KS WELLS KS8000000150401

Well id:	335999	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	10	Spot:	SW SW NE
Longitude:	-94.8530279		
Latitude:	38.5862279		
Long lat t:	From PLSS		
Owner:	Gregory, B	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	20-Feb-2003	Status:	CONSTRUCTED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	29836 W Miola Dr, Paola (6-150' bores)		
Well depth:	150		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1040449834		
Site id:	KS8000000150401		

10
SE
1/4 - 1/2 Mile
Higher

KS WELLS KS8000000216385

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	437637	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	10	Spot:	SE SE SW
Longitude:	-94.8552715		
Latitude:	38.5789255		
Long lat t:	From PLSS		
Owner:	Lighthouse	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	27-Aug-2010	Status:	CONSTRUCTED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	1402 E 303rd St. Paola (23 bores at 360', 3 at 300')		
Well depth:	360		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1042908121		
Site id:	KS8000000216385		

11
South
1/2 - 1 Mile
Lower

KS WELLS KS8000000184480

Well id:	391078	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	15	Spot:	SW NW NW
Longitude:	-94.8622498		
Latitude:	38.5752825		
Long lat t:	GPS		
Owner:	Oyster, Ev	Well use:	Domestic
Comple dat:	10-Aug-2006	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	1111 Main St, Paola		
Well depth:	50		
Elev:	905	Static dep:	12
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1044030620		
Site id:	KS8000000184480		

12
West
1/2 - 1 Mile
Lower

KS WELLS KS8000000039758

Well id:	40331	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	NW NW SE
Longitude:	-94.8715373		
Latitude:	38.5844485		
Long lat t:	From PLSS		
Owner:	Miami Coun	Well use:	Monitoring well/observation/piezometer
Comple dat:	07-Feb-1991	Status:	CONSTRUCTED
Other id:	MW 1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dwr number:	Not Reported		
Directions:	W 4th and Main, SW quadrant, Paola		
Well depth:	17.5		
Elev:	Not Reported	Static dep:	10.73
Est yield:	Not Reported		
Driller:	Terracon Consultants, Inc.		
Well kid:	1040210459		
Site id:	KS8000000039758		

**13
WNW
1/2 - 1 Mile
Higher**

KS WELLS KS8000000176099

Well id:	377173	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW NE
Longitude:	-94.8715468		
Latitude:	38.5862801		
Long lat t:	From PLSS		
Owner:	McPheeters	Well use:	(unstated)/abandoned
Comple dat:	03-Nov-2005	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	5 Brookside Dr, Paola (3-150' bores)		
Well depth:	150		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1044030626		
Site id:	KS8000000176099		

**C14
WSW
1/2 - 1 Mile
Lower**

KS WELLS KS8000000198932

Well id:	413900	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW SE
Longitude:	-94.8715087		
Latitude:	38.5789539		
Long lat t:	From PLSS		
Owner:	Zaremba, S	Well use:	Monitoring well/observation/piezometer
Comple dat:	12-Feb-2008	Status:	CONSTRUCTED
Other id:	MW 4		
Dwr number:	Not Reported		
Directions:	1005 N Pearl, Paola		
Well depth:	7		
Elev:	Not Reported	Static dep:	6.7
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040532469		
Site id:	KS8000000198932		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C15
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000198930

Well id:	413898	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW SE
Longitude:	-94.8715087		
Latitude:	38.5789539		
Long lat t:	From PLSS		
Owner:	Zaremba, S	Well use:	Monitoring well/observation/piezometer
Comple dat:	12-Feb-2008	Status:	CONSTRUCTED
Other id:	MW 3		
Dwr number:	Not Reported		
Directions:	1005 N Pearl, Paola		
Well depth:	5		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040529140		
Site id:	KS8000000198930		

C16
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000198929

Well id:	413897	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW SE
Longitude:	-94.8715087		
Latitude:	38.5789539		
Long lat t:	From PLSS		
Owner:	Zaremba, S	Well use:	Monitoring well/observation/piezometer
Comple dat:	12-Feb-2008	Status:	CONSTRUCTED
Other id:	MW 2		
Dwr number:	Not Reported		
Directions:	1005 N Pearl, Paola		
Well depth:	8		
Elev:	Not Reported	Static dep:	6.32
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040529046		
Site id:	KS8000000198929		

C17
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000198934

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	413902	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW SE
Longitude:	-94.8715087		
Latitude:	38.5789539		
Long lat t:	From PLSS		
Owner:	Zaremba, S	Well use:	Monitoring well/observation/piezometer
Comple dat:	12-Feb-2008	Status:	CONSTRUCTED
Other id:	MW 5		
Dwr number:	Not Reported		
Directions:	1005 N Pearl, Paola		
Well depth:	9		
Elev:	Not Reported	Static dep:	7.65
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040534571		
Site id:	KS8000000198934		

C18
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000198939

Well id:	413907	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW SE
Longitude:	-94.8715087		
Latitude:	38.5789539		
Long lat t:	From PLSS		
Owner:	Zaremba, S	Well use:	Monitoring well/observation/piezometer
Comple dat:	12-Feb-2008	Status:	CONSTRUCTED
Other id:	MW 1		
Dwr number:	Not Reported		
Directions:	1005 N Pearl, Paola		
Well depth:	7.5		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040530602		
Site id:	KS8000000198939		

C19
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000198937

Well id:	413905	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW SE
Longitude:	-94.8715087		
Latitude:	38.5789539		
Long lat t:	From PLSS		
Owner:	Zaremba, S	Well use:	Monitoring well/observation/piezometer
Comple dat:	12-Feb-2008	Status:	CONSTRUCTED
Other id:	MW 7		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dwr number:	Not Reported		
Directions:	1005 N Pearl, Paola		
Well depth:	6		
Elev:	Not Reported	Static dep:	5.1
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040531495		
Site id:	KS8000000198937		

**C20
WSW
1/2 - 1 Mile
Lower**

KS WELLS KS8000000198936

Well id:	413904	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SW SE
Longitude:	-94.8715087		
Latitude:	38.5789539		
Long lat t:	From PLSS		
Owner:	Zaremba, S	Well use:	Monitoring well/observation/piezometer
Comple dat:	12-Feb-2008	Status:	CONSTRUCTED
Other id:	MW 6		
Dwr number:	Not Reported		
Directions:	1005 N Pearl, Paola		
Well depth:	8		
Elev:	Not Reported	Static dep:	2.85
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040534189		
Site id:	KS8000000198936		

**21
NNW
1/2 - 1 Mile
Higher**

KS WELLS KS8000000154391

Well id:	340359	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	4	Spot:	SE SE SE
Longitude:	-94.864701		
Latitude:	38.5935806		
Long lat t:	From PLSS		
Owner:	Barbour, K	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	15-Aug-2003	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	23985 W Saint Andrews Ct, Paola (6-200' bores)		
Well depth:	200		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1044030606		
Site id:	KS8000000154391		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

22
SSE
1/2 - 1 Mile
Higher

KS WELLS KS8000000114743

Well id:	116953	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	15	Spot:	NW SE NW
Longitude:	-94.8576278		
Latitude:	38.5734401		
Long lat t:	From PLSS		
Owner:	First Kans	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	21-Nov-1997	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	1310 Baptiste Dr, Paola		
Well depth:	220		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1044030621		
Site id:	KS8000000114743		

23
NW
1/2 - 1 Mile
Higher

KS WELLS KS8000000142502

Well id:	326720	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	NE NW NE
Longitude:	-94.8692809		
Latitude:	38.5917761		
Long lat t:	From PLSS		
Owner:	Blanck, Jo	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	29-May-2002	Status:	CONSTRUCTED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	102 Waterworks Rd, Paola (4-150' bores)		
Well depth:	150		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Evans Energy Development, Inc.		
Well kid:	1040437161		
Site id:	KS8000000142502		

24
SSW
1/2 - 1 Mile
Higher

KS WELLS KS8000000115671

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	117891	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	16	Spot:	NE SE NE
Longitude:	-94.864597		
Latitude:	38.5734722		
Long lat t:	From PLSS		
Owner:	Carter, Ja	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	17-Jun-1997	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	909 E Kaskaskia, Paola (4-220' bores)		
Well depth:	220		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	5		
Driller:	Evans Energy Development, Inc.		
Well kid:	1044030608		
Site id:	KS8000000115671		

25
SSW
1/2 - 1 Mile
Higher

KS WELLS KS8000000205989

Well id:	423490	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	16	Spot:	NE
Longitude:	-94.8680707		
Latitude:	38.5744027		
Long lat t:	From PLSS		
Owner:	Not Reported	Well use:	(unstated)/abandoned
Comple dat:	16-Mar-2009	Status:	PLUGGED
Other id:	Not Reported		
Dwr number:	Not Reported		
Directions:	from Kaskaskia St: 30' S		
Well depth:	20		
Elev:	Not Reported	Static dep:	9
Est yield:	Not Reported		
Driller:	Not Reported		
Well kid:	1044030611		
Site id:	KS8000000205989		

26
South
1/2 - 1 Mile
Lower

KS WELLS KS8000000214532

Well id:	434895	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	15	Spot:	SE SW NW
Longitude:	-94.8599721		
Latitude:	38.5716236		
Long lat t:	From PLSS		
Owner:	Lakemary C	Well use:	Heat Pump (Closed Loop/Disposal), Geothermal
Comple dat:	11-Jun-2010	Status:	CONSTRUCTED
Other id:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D29
South
1/2 - 1 Mile
Lower

KS WELLS KS8000000118624

Well id:	301854	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	15	Spot:	SW SW NW
Longitude:	-94.8622971		
Latitude:	38.5716364		
Long lat t:	From PLSS		
Owner:	Casey's Ge	Well use:	Monitoring well/observation/piezometer
Comple dat:	07-Jan-1999	Status:	PLUGGED
Other id:	MW 4		
Dwr number:	Not Reported		
Directions:	Not Reported		
Well depth:	18.85		
Elev:	Not Reported	Static dep:	3.41
Est yield:	Not Reported		
Driller:	Associated Environmental, Inc.		
Well kid:	1044030624		
Site id:	KS8000000118624		

D30
South
1/2 - 1 Mile
Lower

KS WELLS KS8000000118623

Well id:	301853	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	15	Spot:	SW SW NW
Longitude:	-94.8622971		
Latitude:	38.5716364		
Long lat t:	From PLSS		
Owner:	Casey's Ge	Well use:	Monitoring well/observation/piezometer
Comple dat:	07-Jan-1999	Status:	PLUGGED
Other id:	MW 3		
Dwr number:	Not Reported		
Directions:	Not Reported		
Well depth:	19.21		
Elev:	Not Reported	Static dep:	4.48
Est yield:	Not Reported		
Driller:	Associated Environmental, Inc.		
Well kid:	1044030625		
Site id:	KS8000000118623		

E31
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000168703

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	361810	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	01-Feb-2005	Status:	CONSTRUCTED
Other id:	MW 5		
Dwr number:	Not Reported		
Directions:	604 N Silver Street, Paola		
Well depth:	34		
Elev:	Not Reported	Static dep:	10.52
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040538176		
Site id:	KS8000000168703		

**E32
WSW
1/2 - 1 Mile
Lower**

KS WELLS KS8000000168704

Well id:	361811	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	01-Feb-2005	Status:	CONSTRUCTED
Other id:	MW 6		
Dwr number:	Not Reported		
Directions:	604 N Silver Street, Paola		
Well depth:	24.5		
Elev:	Not Reported	Static dep:	16.52
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040478256		
Site id:	KS8000000168704		

**E33
WSW
1/2 - 1 Mile
Lower**

KS WELLS KS8000000168702

Well id:	361809	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	01-Feb-2005	Status:	CONSTRUCTED
Other id:	MW 4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dwr number:	Not Reported		
Directions:	604 N Silver Street, Paola		
Well depth:	28.5		
Elev:	Not Reported	Static dep:	7.94
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040480766		
Site id:	KS8000000168702		

E34
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000168700

Well id:	361807	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	01-Feb-2005	Status:	CONSTRUCTED
Other id:	MW 2		
Dwr number:	Not Reported		
Directions:	604 N Silver Street, Paola		
Well depth:	24		
Elev:	Not Reported	Static dep:	6.94
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040478254		
Site id:	KS8000000168700		

E35
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000168701

Well id:	361808	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	01-Feb-2005	Status:	CONSTRUCTED
Other id:	MW 3		
Dwr number:	Not Reported		
Directions:	604 N Silver Street, Paola		
Well depth:	25.5		
Elev:	Not Reported	Static dep:	20.08
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040481427		
Site id:	KS8000000168701		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E36
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000192309

Well id:	404121	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	11-Jul-2007	Status:	PLUGGED
Other id:	MW 1		
Dwr number:	Not Reported		
Directions:	604 N Silver St, Paola		
Well depth:	15		
Elev:	Not Reported	Static dep:	3.98
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040480764		
Site id:	KS8000000192309		

E37
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000192313

Well id:	404125	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	10-Jul-2007	Status:	PLUGGED
Other id:	MW 5		
Dwr number:	Not Reported		
Directions:	604 N Silver St, Paola		
Well depth:	34		
Elev:	Not Reported	Static dep:	9.09
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040538176		
Site id:	KS8000000192313		

E38
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000192314

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	404126	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	10-Jul-2007	Status:	PLUGGED
Other id:	MW 6		
Dwr number:	Not Reported		
Directions:	604 N Silver St, Paola		
Well depth:	24.5		
Elev:	Not Reported	Static dep:	7.21
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040478256		
Site id:	KS8000000192314		

**E39
WSW
1/2 - 1 Mile
Lower**

KS WELLS KS8000000192312

Well id:	404124	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	10-Jul-2007	Status:	PLUGGED
Other id:	MW 4		
Dwr number:	Not Reported		
Directions:	604 N Silver St, Paola		
Well depth:	28.5		
Elev:	Not Reported	Static dep:	7.93
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040480766		
Site id:	KS8000000192312		

**E40
WSW
1/2 - 1 Mile
Lower**

KS WELLS KS8000000192310

Well id:	404122	County:	Miami
Township:	17	Twon dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	11-Jul-2007	Status:	PLUGGED
Other id:	MW 2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dwr number:	Not Reported		
Directions:	604 N Silver St, Paola		
Well depth:	24		
Elev:	Not Reported	Static dep:	6.23
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040478254		
Site id:	KS8000000192310		

E41
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000192311

Well id:	404123	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	10-Jul-2007	Status:	PLUGGED
Other id:	MW 3		
Dwr number:	Not Reported		
Directions:	604 N Silver St, Paola		
Well depth:	25.5		
Elev:	Not Reported	Static dep:	4.89
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040481427		
Site id:	KS8000000192311		

E42
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000137978

Well id:	321695	County:	Miami
Township:	17	Tw n dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	EZ Shop, I	Well use:	Monitoring well/observation/piezometer
Comple dat:	13-May-1997	Status:	CONSTRUCTED
Other id:	MW 2		
Dwr number:	Not Reported		
Directions:	602 N Pearl, Paola		
Well depth:	25		
Elev:	Not Reported	Static dep:	Not Reported
Est yield:	Not Reported		
Driller:	Associated Environmental, Inc.		
Well kid:	1040433363		
Site id:	KS8000000137978		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E43
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000137979

Well id:	321696	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	EZ Shop, I	Well use:	Monitoring well/observation/piezometer
Comple dat:	13-May-1997	Status:	CONSTRUCTED
Other id:	MW 1		
Dwr number:	Not Reported		
Directions:	602 N Pearl, Paola		
Well depth:	18		
Elev:	Not Reported	Static dep:	1.94
Est yield:	Not Reported		
Driller:	Associated Environmental, Inc.		
Well kid:	1040433365		
Site id:	KS8000000137979		

E44
WSW
1/2 - 1 Mile
Lower

KS WELLS KS8000000168699

Well id:	361806	County:	Miami
Township:	17	Twn dir:	S
Range:	23	Range dir:	E
Section:	9	Spot:	SW SE SW
Longitude:	-94.8761511		
Latitude:	38.5789644		
Long lat t:	From PLSS		
Owner:	Kramer, Jo	Well use:	Monitoring well/observation/piezometer
Comple dat:	25-Jan-2005	Status:	CONSTRUCTED
Other id:	MW 1		
Dwr number:	Not Reported		
Directions:	604 N Silver Street, Paola		
Well depth:	15		
Elev:	Not Reported	Static dep:	4.39
Est yield:	Not Reported		
Driller:	Quad State Services, Inc.		
Well kid:	1040480764		
Site id:	KS8000000168699		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A1
West
0 - 1/8 Mile

OIL_GAS **KSOG11000269508**

Kid:	1027634007	State code:	15
County cod:	121	Api well n:	22412
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SLYTER
Well name:	5	Well class:	Approved Intent to Drill
Operator n:	BLAKE & BLAIR		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	Not Reported
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	2145	Feet east :	495
Reference :	SW	Rotary tot:	0
Status :	O&G	Spud date:	Not Reported
Permit dat:	18-DEC-80	Completion:	Not Reported
Api number:	15-121-22412	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5839069		
Nad27 long:	-94.8617149		
Nad83 lati:	38.5839198		
Nad83 long:	-94.8619549		
Completi 1:	Not Reported	Well type:	O&G
Orig fid:	0	Site id:	KSOG11000269508

A2
SW
0 - 1/8 Mile

OIL_GAS **KSOG11000374088**

Kid:	1027634005	State code:	15
County cod:	121	Api well n:	22411
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SLYTER
Well name:	4	Well class:	Approved Intent to Drill
Operator n:	BLAKE & BLAIR		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	Not Reported
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	1815	Feet east :	495
Reference :	SW	Rotary tot:	0
Status :	O&G	Spud date:	Not Reported
Permit dat:	18-DEC-80	Completion:	Not Reported
Api number:	15-121-22411	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Nad27 lati:	38.5830007		
Nad27 long:	-94.8617036		
Nad83 lati:	38.5830136		
Nad83 long:	-94.8619436		
Completi 1:	Not Reported	Well type:	O&G
Orig fid:	0	Site id:	KSOG11000374088

3

East
0 - 1/8 Mile

OIL_GAS KSOG11000232585

Kid:	1027634003	State code:	15
County cod:	121	Api well n:	22410
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SLYTER
Well name:	3	Well class:	Approved Intent to Drill
Operator n:	BLAKE & BLAIR		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	Not Reported
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	2145	Feet east :	1485
Reference :	SW	Rotary tot:	0
Status :	O&G	Spud date:	Not Reported
Permit dat:	18-DEC-80	Completion:	Not Reported
Api number:	15-121-22410	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5839041		
Nad27 long:	-94.8582518		
Nad83 lati:	38.583917		
Nad83 long:	-94.8584917		
Completi 1:	Not Reported	Well type:	O&G
Orig fid:	0	Site id:	KSOG11000232585

4

SE
1/4 - 1/2 Mile

OIL_GAS KSOG11000232584

Kid:	1027634001	State code:	15
County cod:	121	Api well n:	22409
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SLYTER
Well name:	2	Well class:	Approved Intent to Drill
Operator n:	BLAKE & BLAIR		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	1155	Feet east :	1815
Reference :	SW	Rotary tot:	0
Status :	O&G	Spud date:	Not Reported
Permit dat:	18-DEC-80	Completion:	Not Reported
Api number:	15-121-22409	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5811846	Well type:	O&G
Nad27 long:	-94.8570635	Site id:	KSOG11000232584
Nad83 lati:	38.5811976		
Nad83 long:	-94.8573034		
Completi 1:	Not Reported		
Orig fid:	0		

5

WSW

1/4 - 1/2 Mile

OIL_GAS

KSOG11000285529

Kid:	1006738136	State code:	15
County cod:	121	Api well n:	72271
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	W. H. THURO
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	J. A. BOSLEY		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SE
Subdivis 1:	NE	Subdivis 2:	S2
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	748
Status :	D&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72271	Plug date:	01-NOV-52
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5826086	Well type:	D&A
Nad27 long:	-94.8657438	Site id:	KSOG11000285529
Nad83 lati:	38.5826215		
Nad83 long:	-94.8659839		
Completi 1:	Not Reported		
Orig fid:	0		

6

SSW

1/4 - 1/2 Mile

OIL_GAS

KSOG11000293417

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Kid:	1006738141	State code:	15
County cod:	121	Api well n:	72275
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	GREASON
Well name:	1-E	Well class:	Plugged and Abandoned
Operator n:	C. V. ELLIOTT		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	SW
Subdivis 1:	SW	Subdivis 2:	SW
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	609
Status :	D&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72275	Plug date:	01-AUG-53
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.578934		
Nad27 long:	-94.8622255		
Nad83 lati:	38.5789471		
Nad83 long:	-94.8624655		
Completi 1:	Not Reported	Well type:	D&A
Orig fid:	0	Site id:	KSOG11000293417

7

ESE

1/4 - 1/2 Mile

OIL_GAS

KSOG11000391204

Kid:	1027797341	State code:	15
County cod:	121	Api well n:	23059
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SLYTER
Well name:	1	Well class:	Approved Intent to Drill
Operator n:	William M. EAST		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	Not Reported
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	1491	Feet east :	-2553
Reference :	SE	Rotary tot:	0
Status :	OIL	Spud date:	Not Reported
Permit dat:	06-JUL-81	Completion:	Not Reported
Api number:	15-121-23059	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5821046		
Nad27 long:	-94.8537979		
Nad83 lati:	38.5821176		
Nad83 long:	-94.8540376		
Completi 1:	Not Reported	Well type:	OIL
Orig fid:	0	Site id:	KSOG11000391204

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

8

SE

1/4 - 1/2 Mile

OIL_GAS

KSOG11000232583

Kid:	1027633999	State code:	15
County cod:	121	Api well n:	22408
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SLYTER
Well name:	1	Well class:	Approved Intent to Drill
Operator n:	BLAKE & BLAIR		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	Not Reported
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	495	Feet east :	2145
Reference :	SW	Rotary tot:	0
Status :	O&G	Spud date:	Not Reported
Permit dat:	18-DEC-80	Completion:	Not Reported
Api number:	15-121-22408	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5793712		
Nad27 long:	-94.8558865		
Nad83 lati:	38.5793843		
Nad83 long:	-94.8561264		
Completi 1:	Not Reported	Well type:	O&G
Orig fid:	0	Site id:	KSOG11000232583

B10

WSW

1/4 - 1/2 Mile

OIL_GAS

KSOG11000230625

Kid:	1027631395	State code:	15
County cod:	121	Api well n:	20767
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	THURO
Well name:	2	Well class:	Approved Intent to Drill
Operator n:	PETROLEUM PRODUCTION CORPORATION		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SE
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	0
Status :	GAS	Spud date:	Not Reported
Permit dat:	06-OCT-78	Completion:	Not Reported
Api number:	15-121-20767	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Nad27 lati:	38.5816954		
Nad27 long:	-94.8680498		
Nad83 lati:	38.5817084		
Nad83 long:	-94.86829		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000230625

B11
WSW
1/4 - 1/2 Mile

OIL_GAS KSOG11000230626

Kid:	1027631397	State code:	15
County cod:	121	Api well n:	20768
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	THURO
Well name:	3	Well class:	Approved Intent to Drill
Operator n:	PETROLEUM PRODUCTION CORPORATION		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SE
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	0
Status :	GAS	Spud date:	Not Reported
Permit dat:	06-OCT-78	Completion:	Not Reported
Api number:	15-121-20768	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5816954		
Nad27 long:	-94.8680498		
Nad83 lati:	38.5817084		
Nad83 long:	-94.86829		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000230626

B9
WSW
1/4 - 1/2 Mile

OIL_GAS KSOG11000230624

Kid:	1027631393	State code:	15
County cod:	121	Api well n:	20766
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	THURO
Well name:	1	Well class:	Approved Intent to Drill
Operator n:	PETROLEUM PRODUCTION CORPORATION		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SE

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	0
Status :	GAS	Spud date:	Not Reported
Permit dat:	06-OCT-78	Completion:	Not Reported
Api number:	15-121-20766	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5816954	Well type:	GAS
Nad27 long:	-94.8680498	Site id:	KSOG11000230624
Nad83 lati:	38.5817084		
Nad83 long:	-94.86829		
Completi 1:	Not Reported		
Orig fid:	0		

**12
East
1/2 - 1 Mile**

OIL_GAS KSOG11000028260

Kid:	1006738142	State code:	15
County cod:	121	Api well n:	72276
Api workov:	Not Reported	Field name:	UNKNOWN
Field kid:	0	Lease name:	H. H. SLYTER
Well name:	1-B	Well class:	Plugged and Abandoned
Operator n:	C. V. ELLIOTT		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	SE
Subdivis 1:	NW	Subdivis 2:	NE
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	404
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72276	Plug date:	01-SEP-51
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5843931	Well type:	GAS
Nad27 long:	-94.8506885	Site id:	KSOG11000028260
Nad83 lati:	38.584406		
Nad83 long:	-94.8509281		
Completi 1:	Not Reported		
Orig fid:	0		

**13
West
1/2 - 1 Mile**

OIL_GAS KSOG11000028255

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Kid:	1006738132	State code:	15
County cod:	121	Api well n:	72267
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	CLITHERS
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	HAL A. LAMBETH		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SE
Subdivis 1:	NW	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	425
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72267	Plug date:	01-SEP-48
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5835313		
Nad27 long:	-94.8703767		
Nad83 lati:	38.5835442		
Nad83 long:	-94.870617		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000028255

**14
NNW
1/2 - 1 Mile**

OIL_GAS KSOG11000306269

Kid:	1029096988	State code:	15
County cod:	121	Api well n:	26282
Api workov:	Not Reported	Field name:	UNKNOWN
Field kid:	0	Lease name:	DAVID R. SLYTER
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	BALLOU OIL WELL SERVICE		
Operator k:	1027998360	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	NW
Subdivis 1:	NW	Subdivis 2:	NW
Subdivis 3:	NW	Spot:	Not Reported
Feet north:	5115	Feet east :	-5115
Reference :	SE	Rotary tot:	700
Status :	D&A	Spud date:	Not Reported
Permit dat:	06-AUG-84	Completion:	Not Reported
Api number:	15-121-26282	Plug date:	01-AUG-84
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5920636		
Nad27 long:	-94.8628434		
Nad83 lati:	38.5920763		
Nad83 long:	-94.8630832		
Completi 1:	Not Reported	Well type:	D&A
Orig fid:	0	Site id:	KSOG11000306269

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

15
SW
1/2 - 1 Mile

OIL_GAS **KSOG11000394606**

Kid:	1006738176	State code:	15
County cod:	121	Api well n:	70215
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	NA
Well name:	OW-1	Well class:	Plugged and Abandoned
Operator n:	FIRST NATIONAL BANK		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	16	Subdivisio:	NE
Subdivis 1:	NE	Subdivis 2:	NW
Subdivis 3:	W2	Spot:	Not Reported
Feet north:	4950	Feet east :	-1056
Reference :	SE	Rotary tot:	329
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-70215	Plug date:	30-APR-93
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5770963		
Nad27 long:	-94.8670787		
Nad83 lati:	38.5771095		
Nad83 long:	-94.8673189		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000394606

16
North
1/2 - 1 Mile

OIL_GAS **KSOG11000264226**

Kid:	1027798509	State code:	15
County cod:	121	Api well n:	23696
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SLYTER
Well name:	2	Well class:	Approved Intent to Drill
Operator n:	LESTER SEHUENEMAN		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	NW
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	-132	Feet east :	660
Reference :	NW	Rotary tot:	740
Status :	OIL	Spud date:	Not Reported
Permit dat:	13-JAN-82	Completion:	Not Reported
Api number:	15-121-23696	Plug date:	01-DEC-81
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Nad27 lati:	38.5923175		
Nad27 long:	-94.8612421		
Nad83 lati:	38.5923303		
Nad83 long:	-94.861482		
Completi 1:	Not Reported	Well type:	OIL
Orig fid:	0	Site id:	KSOG11000264226

17
North
1/2 - 1 Mile

OIL_GAS KSOG11000028485

Kid:	1006738091	State code:	15
County cod:	121	Api well n:	25059
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	J. C. SHARP
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	CORNELIUS BROTHERS INC		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	3	Subdivisio:	SW
Subdivis 1:	SW	Subdivis 2:	E2
Subdivis 3:	SE	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	650
Status :	D&A	Spud date:	Not Reported
Permit dat:	13-JUL-82	Completion:	Not Reported
Api number:	15-121-25059	Plug date:	01-JUL-82
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5935515		
Nad27 long:	-94.8594866		
Nad83 lati:	38.5935643		
Nad83 long:	-94.8597264		
Completi 1:	Not Reported	Well type:	D&A
Orig fid:	0	Site id:	KSOG11000028485

18
West
1/2 - 1 Mile

OIL_GAS KSOG11000259106

Kid:	1027631255	State code:	15
County cod:	121	Api well n:	20694
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	MESSER
Well name:	1	Well class:	Approved Intent to Drill
Operator n:	PETROLEUM PRODUCTION CORPORATION		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	0
Status :	GAS	Spud date:	Not Reported
Permit dat:	21-JUL-78	Completion:	Not Reported
Api number:	15-121-20694	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5853653	Well type:	GAS
Nad27 long:	-94.872696	Site id:	KSOG11000259106
Nad83 lati:	38.5853781		
Nad83 long:	-94.8729363		
Completi 1:	Not Reported		
Orig fid:	0		

**19
SW
1/2 - 1 Mile**

OIL_GAS KSOG11000256197

Kid:	1027631151	State code:	15
County cod:	121	Api well n:	20641
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	BARKIS
Well name:	1	Well class:	Approved Intent to Drill
Operator n:	PETROLEUM PRODUCTION CORPORATION	Principal :	Not Reported
Operator k:	0	Township d:	S
Township:	17	Range dire:	E
Range :	23	Subdivisio:	Not Reported
Section:	16	Subdivis 2:	Not Reported
Subdivis 1:	Not Reported	Spot:	Not Reported
Subdivis 3:	Not Reported	Feet east :	-1650
Feet north:	-500	Rotary tot:	0
Reference :	NE	Spud date:	Not Reported
Status :	GAS	Completion:	Not Reported
Permit dat:	05-MAY-78	Plug date:	Not Reported
Api number:	15-121-20641	Elevation1:	0
Elevation :	0		
Elevatio 1:	0		
Producing :	Not Reported	Well type:	GAS
Nad27 lati:	38.5766593	Site id:	KSOG11000256197
Nad27 long:	-94.8691632		
Nad83 lati:	38.5766724		
Nad83 long:	-94.8694035		
Completi 1:	Not Reported		
Orig fid:	0		

**20
ENE
1/2 - 1 Mile**

OIL_GAS KSOG11000370236

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Kid:	1006738137	State code:	15
County cod:	121	Api well n:	72272
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	BEN KOELZER
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	ALBERT BREISACH		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	NE
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	600
Status :	D&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72272	Plug date:	01-DEC-48
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5889474		
Nad27 long:	-94.8495709		
Nad83 lati:	38.5889603		
Nad83 long:	-94.8498105		
Completi 1:	Not Reported	Well type:	D&A
Orig fid:	0	Site id:	KSOG11000370236

**21
SE
1/2 - 1 Mile**

OIL_GAS KSOG11000112886

Kid:	1006738171	State code:	15
County cod:	121	Api well n:	72302
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	EVINGER
Well name:	2-B	Well class:	Plugged and Abandoned
Operator n:	C. V. ELLIOTT		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	15	Subdivisio:	NE
Subdivis 1:	NW	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	602
Status :	D&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72302	Plug date:	01-JUN-52
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5761716		
Nad27 long:	-94.8517996		
Nad83 lati:	38.5761847		
Nad83 long:	-94.8520393		
Completi 1:	Not Reported	Well type:	D&A
Orig fid:	0	Site id:	KSOG11000112886

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

C23
SSW
1/2 - 1 Mile

OIL_GAS KSOG11000221421

Kid:	1006738174	State code:	15
County cod:	121	Api well n:	70232
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	CHRONISTER
Well name:	OW-1	Well class:	Plugged and Abandoned
Operator n:	RICK CHRONISTER (PAOLA KS)		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	16	Subdivisio:	NE
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	319
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-70232	Plug date:	11-MAY-93
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5744027		
Nad27 long:	-94.8680707		
Nad83 lati:	38.5744158		
Nad83 long:	-94.8683109		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000221421

C22
SSW
1/2 - 1 Mile

OIL_GAS KSOG11000208975

Kid:	1006738177	State code:	15
County cod:	121	Api well n:	72306
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	PAUL ELLIOTT
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	MARTIN MANFIELD		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	16	Subdivisio:	NE
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	701
Status :	D&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	27-SEP-50
Api number:	15-121-72306	Plug date:	30-SEP-50
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Nad27 lati:	38.5744027		
Nad27 long:	-94.8680707		
Nad83 lati:	38.5744158		
Nad83 long:	-94.8683109		
Completi 1:	1950	Well type:	D&A
Orig fid:	0	Site id:	KSOG11000208975

**D24
WSW
1/2 - 1 Mile**

OIL_GAS KSOG11000028389

Kid:	1006738131	State code:	15
County cod:	121	Api well n:	72266
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	CHAMBERS
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	C. D. KINDRED		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SW
Subdivis 1:	SE	Subdivis 2:	E2
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	381
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72266	Plug date:	01-NOV-52
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5798745		
Nad27 long:	-94.8738328		
Nad83 lati:	38.5798875		
Nad83 long:	-94.8740732		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000028389

**E25
ENE
1/2 - 1 Mile**

OIL_GAS KSOG11000028258

Kid:	1006738138	State code:	15
County cod:	121	Api well n:	72273
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	BROKER
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	CITY OF PAOLA		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	NE

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Subdivis 1:	E2	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	264
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72273	Plug date:	01-NOV-57
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5889341	Well type:	GAS
Nad27 long:	-94.8472477	Site id:	KSOG11000028258
Nad83 lati:	38.588947		
Nad83 long:	-94.8474872		
Completi 1:	Not Reported		
Orig fid:	0		

**E26
ENE
1/2 - 1 Mile**

OIL_GAS KSOG11000028259

Kid:	1006738139	State code:	15
County cod:	121	Api well n:	72274
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	BROKER
Well name:	2	Well class:	Plugged and Abandoned
Operator n:	CITY OF PAOLA		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	10	Subdivisio:	NE
Subdivis 1:	E2	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	252
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72274	Plug date:	01-NOV-57
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5889341	Well type:	GAS
Nad27 long:	-94.8472477	Site id:	KSOG11000028259
Nad83 lati:	38.588947		
Nad83 long:	-94.8474872		
Completi 1:	Not Reported		
Orig fid:	0		

**27
NNW
1/2 - 1 Mile**

OIL_GAS KSOG11000325323

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Kid:	1037553175	State code:	15
County cod:	121	Api well n:	1836
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	SAVAGE
Well name:	SAV02	Well class:	KCC Fee Fund Plugging
Operator n:	Not Reported		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	4	Subdivisio:	SE
Subdivis 1:	SE	Subdivis 2:	NE
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	1024	Feet east :	-31
Reference :	SE	Rotary tot:	625
Status :	OIL-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-01836	Plug date:	09-OCT-06
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5955088		
Nad27 long:	-94.8636583		
Nad83 lati:	38.5955216		
Nad83 long:	-94.8638983		
Completi 1:	Not Reported	Well type:	OIL
Orig fid:	0	Site id:	KSOG11000325323

**D28
WSW
1/2 - 1 Mile**

OIL_GAS KSOG11000294015

Kid:	1006738135	State code:	15
County cod:	121	Api well n:	72270
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	PHILLIPS
Well name:	2	Well class:	Plugged and Abandoned
Operator n:	SANDS & KINDRED		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SW
Subdivis 1:	SE	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	480
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72270	Plug date:	01-AUG-48
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5798769		
Nad27 long:	-94.8749924		
Nad83 lati:	38.5798898		
Nad83 long:	-94.8752329		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000294015

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

29
West
1/2 - 1 Mile

OIL_GAS KSOG11000230623

Kid:	1027631391	State code:	15
County cod:	121	Api well n:	20765
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	BRACKEN
Well name:	1	Well class:	Approved Intent to Drill
Operator n:	PETROLEUM PRODUCTION CORPORATION		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	SW
Subdivis 1:	Not Reported	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	0
Status :	GAS	Spud date:	Not Reported
Permit dat:	06-OCT-78	Completion:	Not Reported
Api number:	15-121-20765	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5817108		
Nad27 long:	-94.8773118		
Nad83 lati:	38.5817238		
Nad83 long:	-94.8775523		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000230623

30
WNW
1/2 - 1 Mile

OIL_GAS KSOG11000028257

Kid:	1006738134	State code:	15
County cod:	121	Api well n:	72269
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	PHILLIPS
Well name:	1	Well class:	Plugged and Abandoned
Operator n:	SANDS & KINDRED		
Operator k:	0	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	9	Subdivisio:	NW
Subdivis 1:	NE	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	420
Status :	GAS-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-72269	Plug date:	01-AUG-48
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Nad27 lati:	38.5908575		
Nad27 long:	-94.8750153		
Nad83 lati:	38.5908703		
Nad83 long:	-94.8752557		
Completi 1:	Not Reported	Well type:	GAS
Orig fid:	0	Site id:	KSOG11000028257

**F31
NW**

1/2 - 1 Mile

OIL_GAS KSOG11000028489

Kid:	1006738095	State code:	15
County cod:	121	Api well n:	70056
Api workov:	Not Reported	Field name:	UNKNOWN
Field kid:	0	Lease name:	GREEN
Well name:	OW-2	Well class:	Plugged and Abandoned
Operator n:	BALLOU OIL WELL SERV		
Operator k:	1027998360	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	4	Subdivisio:	SE
Subdivis 1:	SW	Subdivis 2:	NW
Subdivis 3:	SE	Spot:	Not Reported
Feet north:	750	Feet east :	-2000
Reference :	SE	Rotary tot:	333
Status :	OIL-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-70056	Plug date:	07-OCT-93
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5947508	Well type:	OIL
Nad27 long:	-94.870549	Site id:	KSOG11000028489
Nad83 lati:	38.5947635		
Nad83 long:	-94.8707892		
Completi 1:	Not Reported		
Orig fid:	0		

**32
SW**

1/2 - 1 Mile

OIL_GAS KSOG11000268299

Kid:	1027798035	State code:	15
County cod:	121	Api well n:	23433
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	WILSON
Well name:	1	Well class:	Approved Intent to Drill
Operator n:	STANTON OIL COMPANY, INC.		
Operator k:	0	Principal :	Not Reported
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	16	Subdivisio:	NE

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Subdivis 1:	SW	Subdivis 2:	Not Reported
Subdivis 3:	Not Reported	Spot:	Not Reported
Feet north:	0	Feet east :	0
Reference :	Not Reported	Rotary tot:	0
Status :	OIL	Spud date:	Not Reported
Permit dat:	19-SEP-81	Completion:	Not Reported
Api number:	15-121-23433	Plug date:	Not Reported
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5726072	Well type:	OIL
Nad27 long:	-94.870421	Site id:	KSOG11000268299
Nad83 lati:	38.5726204		
Nad83 long:	-94.8706613		
Completi 1:	Not Reported		
Orig fid:	0		

**F33
NW
1/2 - 1 Mile**

OIL_GAS KSOG11000198320

Kid:	1006738096	State code:	15
County cod:	121	Api well n:	70057
Api workov:	Not Reported	Field name:	Not Reported
Field kid:	0	Lease name:	GREEN
Well name:	OW-4	Well class:	Plugged and Abandoned
Operator n:	BALLOU OIL WELL SERV		
Operator k:	1027998360	Principal :	6
Township:	17	Township d:	S
Range :	23	Range dire:	E
Section:	4	Subdivisio:	SE
Subdivis 1:	SW	Subdivis 2:	NE
Subdivis 3:	NW	Spot:	Not Reported
Feet north:	1000	Feet east :	-1950
Reference :	SE	Rotary tot:	330
Status :	OIL-P&A	Spud date:	Not Reported
Permit dat:	Not Reported	Completion:	Not Reported
Api number:	15-121-70057	Plug date:	07-OCT-93
Elevation :	0	Elevation1:	0
Elevatio 1:	0		
Producing :	Not Reported		
Nad27 lati:	38.5954374	Well type:	OIL
Nad27 long:	-94.8703726	Site id:	KSOG11000198320
Nad83 lati:	38.5954501		
Nad83 long:	-94.8706127		
Completi 1:	Not Reported		
Orig fid:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: KS Radon

Radon Test Results

Zipcode	Avg Radon	Max Radon	Num Tests
66071	5.9	45.6	298

Federal EPA Radon Zone for MIAMI 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: 66071

Number of sites tested: 8

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.125 pCi/L	88%	12%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

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

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix E
Fire Insurance Map

Paola Industrial Park
1410 Industrial Park Dr
Paola, KS 66071

Inquiry Number: 4941399.3

May 18, 2017

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

05/18/17

Site Name:

Paola Industrial Park
1410 Industrial Park Dr
Paola, KS 66071
EDR Inquiry # 4941399.3

Client Name:

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438
Contact: Bo Moreland



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Braun Intertec Corporation were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 042A-40B4-A2A7
PO # Paola Industrial Park
Project B1704612

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 042A-40B4-A2A7

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix F
Historical Topographic Maps

Paola Industrial Park
1410 Industrial Park Dr
Paola, KS 66071

Inquiry Number: 4941399.4

May 18, 2017

EDR Historical Topo Map Report

with QuadMatch™



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

EDR Historical Topo Map Report

05/18/17

Site Name:

Paola Industrial Park
1410 Industrial Park Dr
Paola, KS 66071
EDR Inquiry # 4941399.4

Client Name:

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438
Contact: Bo Moreland



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Braun Intertec Corporation were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	Paola Industrial Park	Latitude:	38.583821 38° 35' 2" North
Project:	B1704612	Longitude:	-94.860621 -94° 51' 38" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	337939.61
		UTM Y Meters:	4272235.80
		Elevation:	918.48' above sea level

Maps Provided:

2012
1973
1956, 1957
1893
1887

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Paola East
2012
7.5-minute, 24000



Paola West
2012
7.5-minute, 24000

1973 Source Sheets

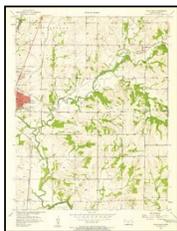


Paola East
1973
7.5-minute, 24000
Aerial Photo Revised 1973

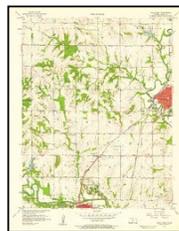


Paola West
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1956, 1957 Source Sheets



Paola East
1956
7.5-minute, 24000
Aerial Photo Revised 1948



Paola West
1957
7.5-minute, 24000
Aerial Photo Revised 1948

1893 Source Sheets



Olathe
1893
30-minute, 125000

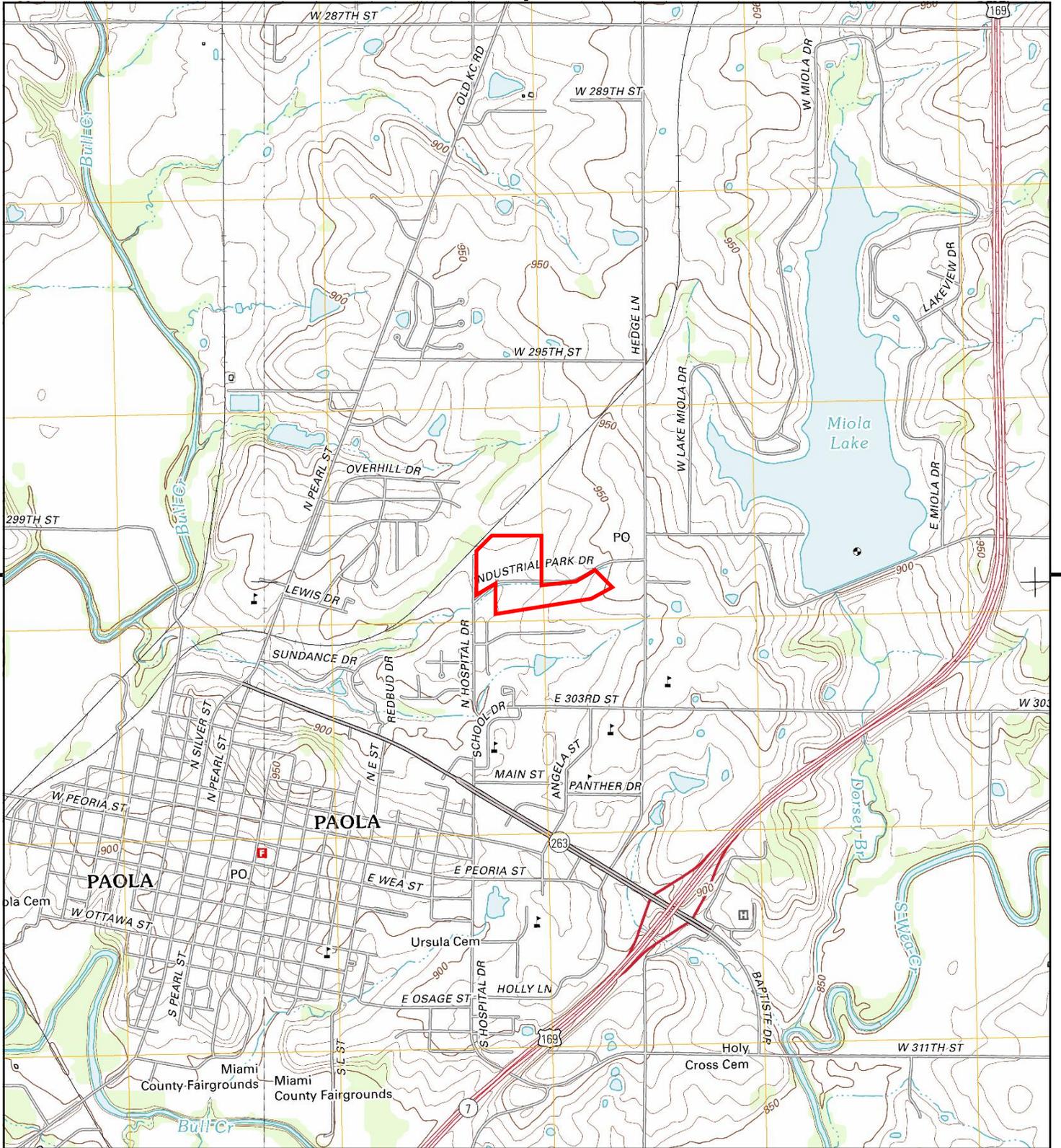
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

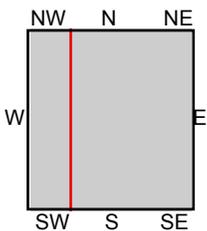
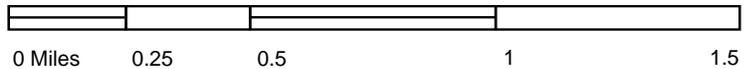
1887 Source Sheets



Olathe
1887
30-minute, 125000



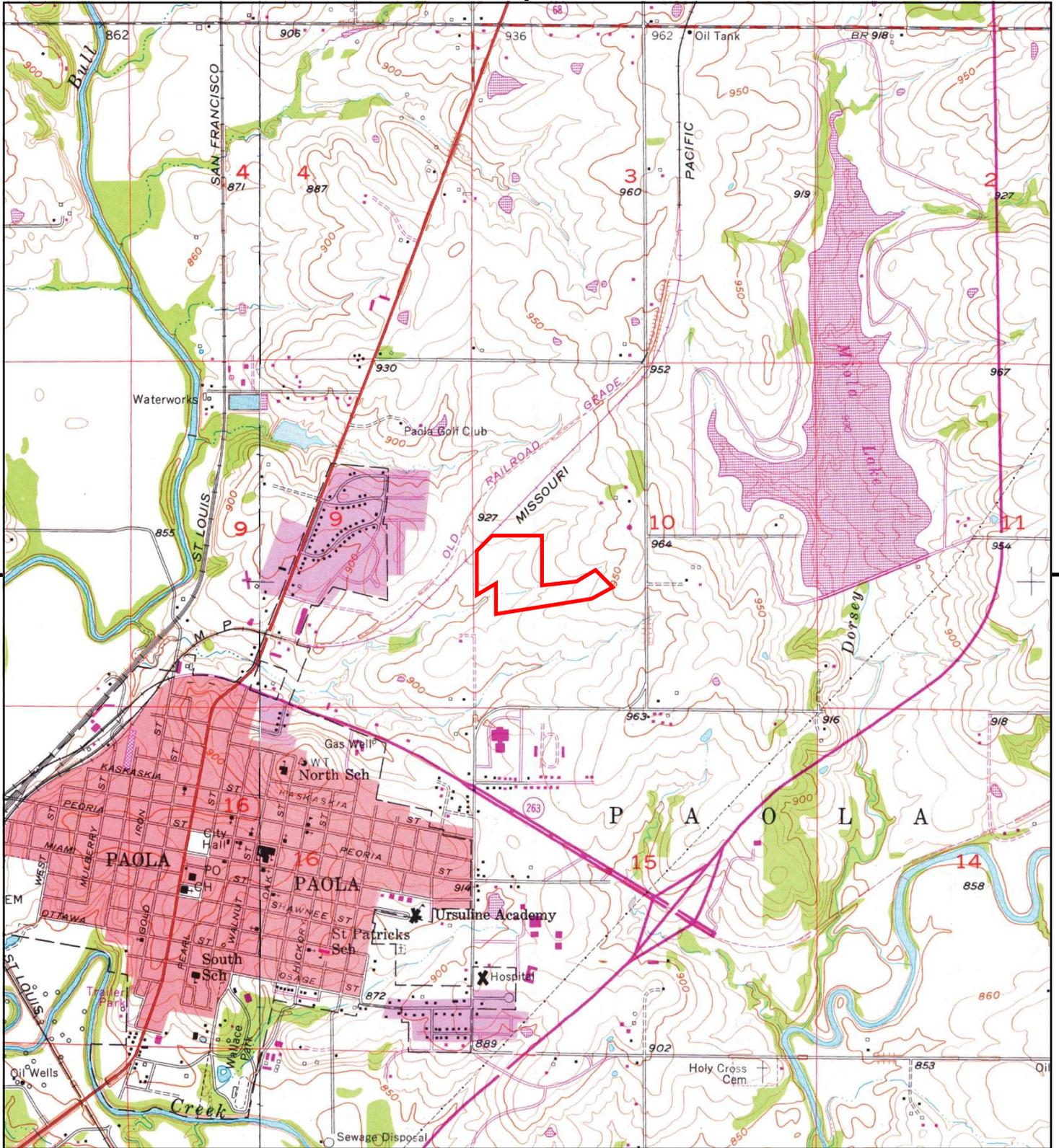
This report includes information from the following map sheet(s).



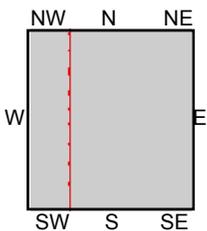
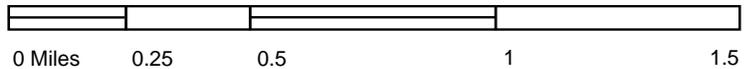
TP, Paola East, 2012, 7.5-minute
W, Paola West, 2012, 7.5-minute

SITE NAME: Paola Industrial Park
ADDRESS: 1410 Industrial Park Dr
Paola, KS 66071
CLIENT: Braun Intertec Corporation





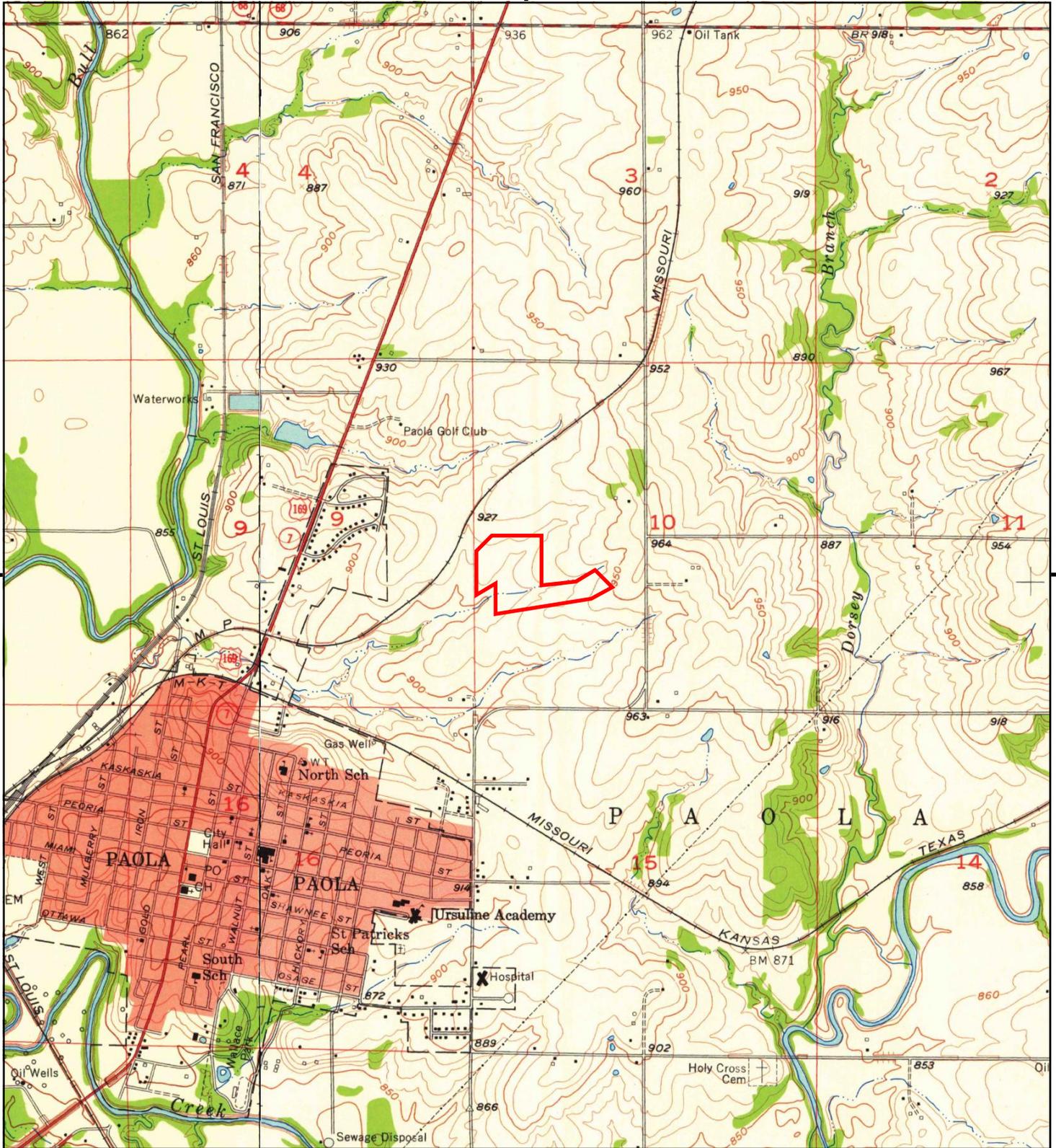
This report includes information from the following map sheet(s).



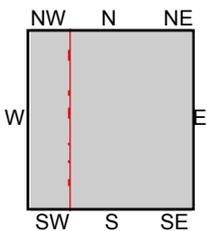
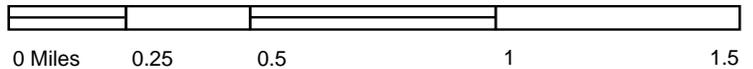
TP, Paola East, 1973, 7.5-minute
 W, Paola West, 1973, 7.5-minute

SITE NAME: Paola Industrial Park
ADDRESS: 1410 Industrial Park Dr
 Paola, KS 66071
CLIENT: Braun Intertec Corporation





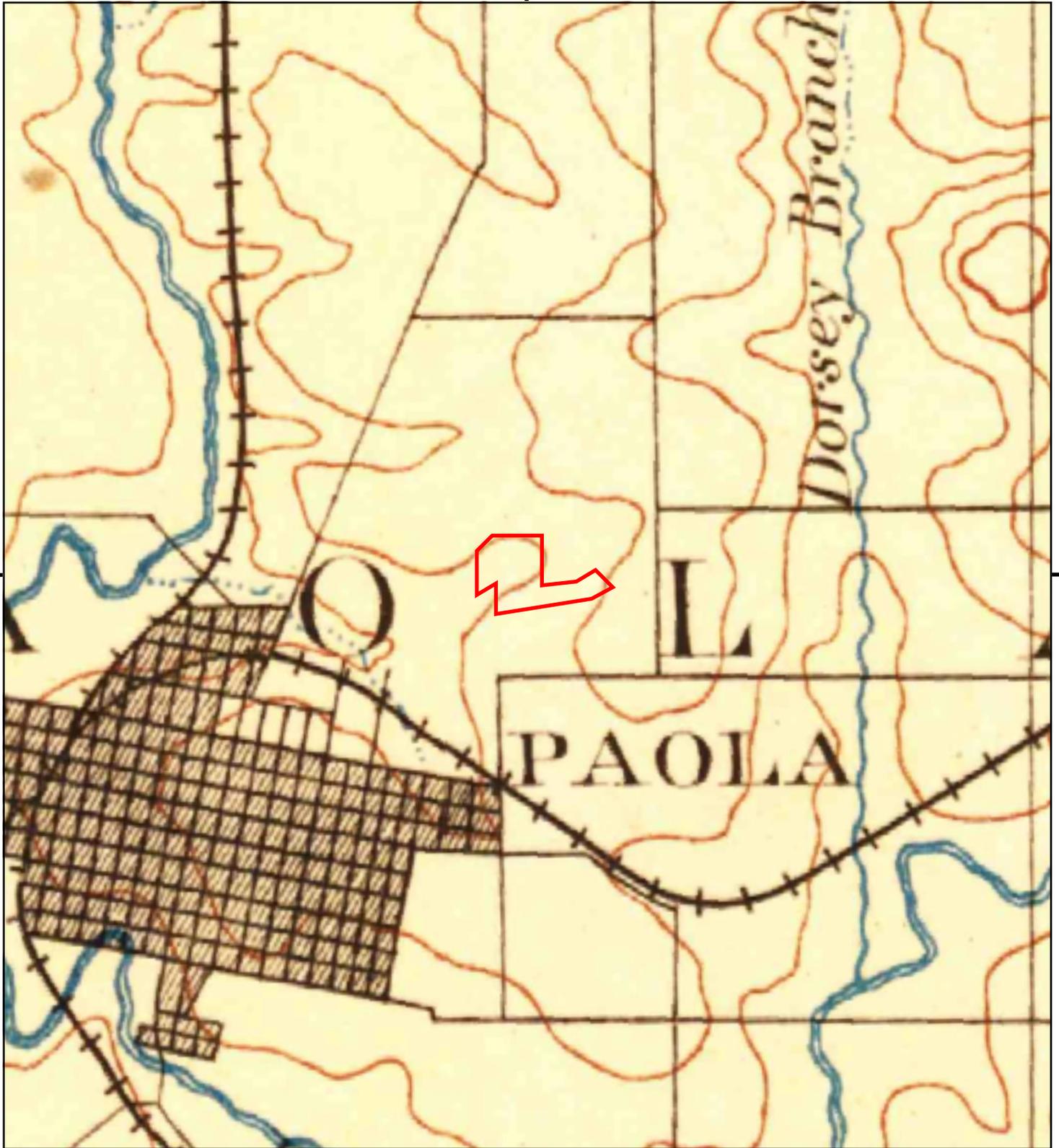
This report includes information from the following map sheet(s).



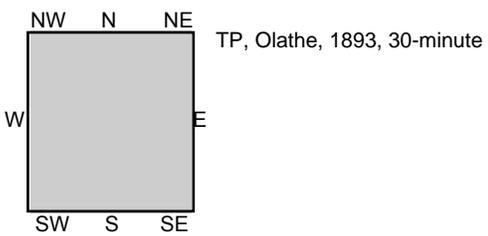
TP, Paola East, 1956, 7.5-minute
 W, Paola West, 1957, 7.5-minute

SITE NAME: Paola Industrial Park
ADDRESS: 1410 Industrial Park Dr
 Paola, KS 66071
CLIENT: Braun Intertec Corporation



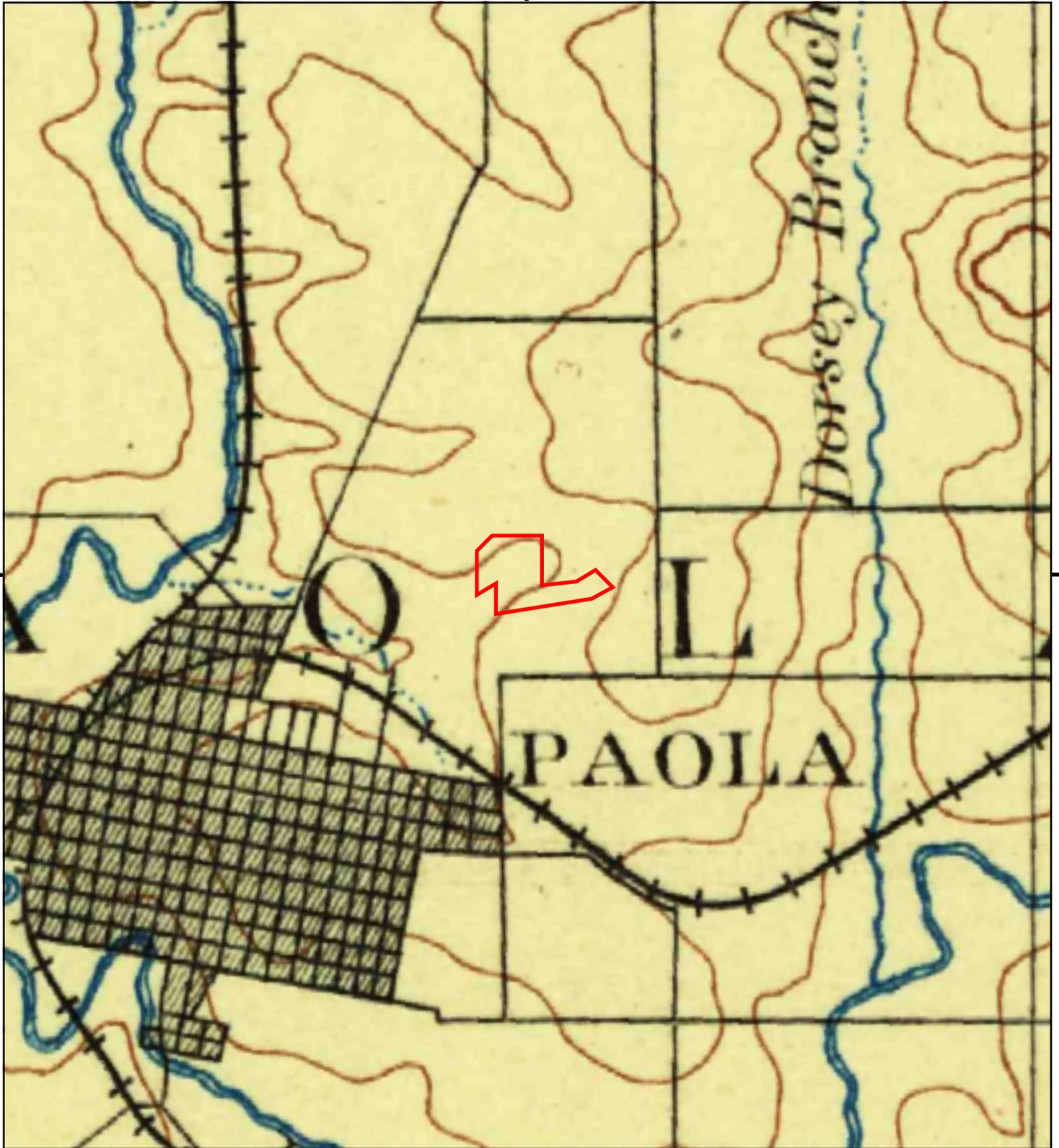


This report includes information from the following map sheet(s).

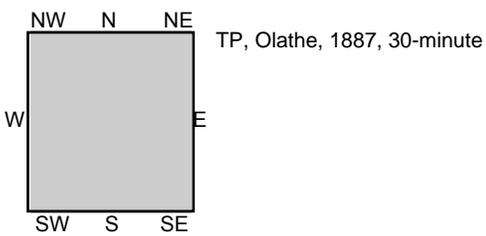


SITE NAME: Paola Industrial Park
ADDRESS: 1410 Industrial Park Dr
Paola, KS 66071
CLIENT: Braun Intertec Corporation





This report includes information from the following map sheet(s).



SITE NAME: Paola Industrial Park
 ADDRESS: 1410 Industrial Park Dr
 Paola, KS 66071
 CLIENT: Braun Intertec Corporation



Appendix G
Aerial Photographs



Paola Industrial Park
1410 Industrial Park Dr
Paola, KS 66071

Inquiry Number: 4941399.12

May 18, 2017

The EDR Aerial Photo Decade Package



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

Site Name:

Paola Industrial Park
 1410 Industrial Park Dr
 Paola, KS 66071
 EDR Inquiry # 4941399.12

Client Name:

Braun Intertec Corporation
 11001 Hampshire Avenue S.
 Minneapolis, MN 55438
 Contact: Bo Moreland



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Acquisition Date: February 13, 2002	USGS/DOQQ
1996	1"=750'	Flight Date: March 09, 1996	USGS
1991	1"=500'	Flight Date: October 12, 1991	USGS
1985	1"=500'	Flight Date: July 05, 1985	USDA
1977	1"=1000'	Flight Date: April 07, 1977	USGS
1948	1"=500'	Flight Date: August 23, 1948	USGS

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INQUIRY #: 4941399.12

YEAR: 2012

— = 500'





INQUIRY #: 4941399.12

YEAR: 2010

— = 500'





INQUIRY #: 4941399.12

YEAR: 2008

— = 500'





INQUIRY #: 4941399.12

YEAR: 2006

— = 500'





INQUIRY #: 4941399.12

YEAR: 2005

— = 500'





INQUIRY #: 4941399.12

YEAR: 2002

— = 500'





INQUIRY #: 4941399.12

YEAR: 1996

— = 750'



503 FL 153.72



INQUIRY #: 4941399.12

YEAR: 1991

— = 500'





INQUIRY #: 4941399.12

YEAR: 1985

— = 500'





INQUIRY #: 4941399.12

YEAR: 1977

— = 1000'





INQUIRY #: 4941399.12

YEAR: 1948

— = 500'



Appendix H
City Directory

Paola Industrial Park

1410 Industrial Park Dr
Paola, KS 66071

Inquiry Number: 4941399.5
May 19, 2017

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1989	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1987	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1983	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1979	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1973	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1967	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1965	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory

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FINDINGS

TARGET PROPERTY STREET

1410 Industrial Park Dr
Paola, KS 66071

Year

CD Image

Source

INDUSTRIAL PARK DR

2013	pg A1	Cole Information Services	
2008	pg A2	Cole Information Services	
2003	pg A3	Cole Information Services	
1999	pg A4	Cole Information Services	
1995	pg A5	Cole Information Services	
1989	-	Polk's City Directory	Street not listed in Source
1987	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1973	-	Polk's City Directory	Street not listed in Source
1967	-	Polk's City Directory	Street not listed in Source
1965	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

INDUSTRIAL PARK DR 2013

1008	CHRISTINA TOWLER
1010	ALEXANDRIA BURTON
	BARBARA WALTERS
	CLINTON BOWLIN
	CONNIE LEMONS
	CORTLY BYARD
	ELLEN ROOT
	FRANCES ANDERSON
	J PURDOM
	JANICE SHELTON
	JOSEPH BUBNICK
	JOSEPH BUNICK
	JUDY NELSON
	KATHLEEN OLEARY
	KATHRYN CLEVINGER
	LEE MCABEE
	LINDA MONTEZ
	LISA HUNTER
	MARY BLACKMAN
	MARY JACKSON
	RICHARD COTTLE
	RUSSELL MORGAN
	RUTH COURTNEY
	SHARON KENYON
	TAMI WOOLF
	WILLIAM SIMPSON
1101	B & B TREASURY MGMT
1602	PARK PLAZA HAIRSTYLING SALON
1604	POWELL CHARLES & LYNNE MD
1610	RAYMOND JAMES
1612	COMMUNITY CHIROPRACTIC LLC
1680	UNITED STATES GOVERNMENT
1700	SMITH G K & SONS INC
1705	KANSAS CUSTOM EMBROIDERY INC
1710	ADULT EDUCATION CENTER
	SCHOOLS

INDUSTRIAL PARK DR 2008

1008	CHRISTINA TOWLER
1010	ALICIA SCIOLI
	BRENDA GRANDON
	CECILIA BOWLIN
	E ROOT
	FRANCES ANDERSON
	JANICE SHELTON
	JOE ALT
	JOHNNA SERVOS
	JOSHUA WILLIAMS
	LAKIESHA WEST
	LEE MCABEE
	LINDA MONTEZ
	LISA HUNTER
	LOREN MINNICH
	LORI BYARD
	MICHELLE CROW
	RONITA KARG
	SEAN METZGER
	SHARON KENYON
	TERESA RIGGS
	TERESA YOUNG
	WILLIAM CROSS
	WILLIAM SIMPSON
	YVONNE CLOUTIER
1101	B & B TREASURY MANAGEMENT
	SASNAK INVESTMENTS INC
1610	HEARTLAND OIL & GAS CORP
1612	CHRISTIANSEN CHIROPRACTIC & ACUPUNCT
1680	POSTAL CARRIER ANNEX
1700	SMITH G K & SONS INC
1705	KANSAS CUSTOM EMBROIDERY INC
1707	D & G MAILING SERVICES
1710	ADULT EDUCATION CENTER & GED
	SOUTHEAST KS EDUCATION SERVICE CENTE

INDUSTRIAL PARK DR 2003

1610 SKI INSULATION
1612 CARDIN CHIROPRACTIC & ACPNCTR
KATHLEEN DUEBER
1700 GK SMITH & SONS INC
OCCUPANT UNKNOWN
1705 EMBROIDERY DESIGN INC
KANSAS CUSTOM EMBROIDERY
OCCUPANT UNKNOWN
1708 SAUNDERS INDUSTRIES
1710 FORT SCOTT COMMUNITY COLLEGE
KNS STATE OF EMPLOYMNT & TRNNG

INDUSTRIAL PARK DR 1999

1008 CHRISTINA TOWLER
1010 BRENDA GRANDON
CECILIA BOWLIN
CHRISTOPHER LYONS
E ROOT
FRANCES ANDERSON
JAMES LITRUMBLY
JANICE SHELTON
JOE ALT
JOHNNA SERVOS
LEE MCABEE
LINDA MONTEZ
LISA HUNTER
LOREN MINNICH
LORI BYARD
MICHELLE CROW
RONITA HILL
SARAH DOHERTY
SEAN METZGER
SHARON KENYON
TERESA RIGGS
TERESA YOUNG
TICA MARTIN
WILLIAM SIMPSON
YVONNE CLOUTIER
1700 SMITH G K AND SONS INCORPORATED
1705 KANSAS CUSTOM EMBROIDERY INCORPORATED
1708 SAUNDERS INDUSTRIES
1710 ADULT EDUCATION & GED TESTING CENTER
GREENBUSH NORTH SOUTHEAST EDUCATION SERVICE CENTER



-

INDUSTRIAL PARK DR

1995

1710 ADULT EDUCATION & GED TESTING
GREENBUSH NORTH SOUTHEAST SVC

Appendix I
Environmental Lien Search

PAOLA INDUSTRIAL PARK
1410 INDUSTRIAL PARK DRIVE
PAOLA, KS

Inquiry Number: 4941399.7S

EDR Environmental Lien and AUL Search



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

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

PAOLA INDUSTRIAL PARK
1410 INDUSTRIAL PARK DRIVE
PAOLA, KS

RESEARCH SOURCE

Source 1: MIAMI COUNTY RECORDER OF DEEDS
Source 2: KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Title is vested in: PAOLA CITY
Miscellaneous Comments: NO DEED IMAGE. PAOLA CITY ACQUIRED PRIOR TO 1980

Legal Description: PAOLA INDUSTRIAL PARK BLK 1 SU, S10, T17, R23, ACRES 24.2, W518.9 LT 3 & ALL LTS 4-5-6 & TR BEG NW/C LT 7 TH SELY284.4 NELY333.5 NWLY325.8 SWLY310.8 TO POB

Current Owner: PAOLA CITY

Property Identifiers: 132-10-0-30-01-009.040

Comments: NA

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found Not Found

EDR Environmental Lien and AUL Search

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED
1st Party:
2nd Party:
Date Recorded:
Instrument #:
Book:
Page:
Comments:

PAOLA INDUSTRIAL PARK
1410 INDUSTRIAL PARK DRIVE
PAOLA, KS

Inquiry Number: 4941399.7S

EDR Environmental Lien and AUL Search



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

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

PAOLA INDUSTRIAL PARK
1410 INDUSTRIAL PARK DRIVE
PAOLA, KS

RESEARCH SOURCE

Source 1: MIAMI COUNTY RECORDER OF DEEDS
Source 2: KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Title is vested in: PAOLA CITY
Miscellaneous Comments: NO DEED IMAGE. PAOLA CITY ACQUIRED PRIOR TO 1980

Legal Description: PAOLA INDUSTRIAL PARK BLK 1 SU, S10, T17, R23, ACRES 5.2, TR BEG 312.7E SW/C LT 7 PAOLA INDUSTRIAL PARK SUBD TH E172.2 NELY374.2 N378.8 W404.2 SWLY144 S408.6 TO POB
Current Owner: PAOLA CITY

Property Identifiers: 132-10-0-30-02-009.080

Comments: NA

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found Not Found

EDR Environmental Lien and AUL Search

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED
1st Party:
2nd Party:
Date Recorded:
Instrument #:
Book:
Page:
Comments:

Paola Industrial Park

1410 Industrial Park Dr
Paola, KS 66071

Inquiry Number: 4941399.6
May 18, 2017

The EDR Property Tax Map Report

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

NO COVERAGE

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Paola Industrial Park

1410 Industrial Park Dr
Paola, KS 66071

Inquiry Number: 4941399.8
May 18, 2017

EDR Building Permit Report

Target Property and Adjoining Properties

EDR Building Permit Report: Search Documentation

5/18/17

Site Name:

Paola Industrial Park
1410 Industrial Park
Paola, KS 66071

Client Name:

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

EDR Inquiry # 4941399.8

Contact: Bo Moreland

Search Documentation

DATA GAP

The complete collection of Building Permit data available to EDR has been searched, and as of 5/18/17, EDR does not have access to building permits in the city where your target property is located (Paola, KS).

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquiries (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.



Appendix J
Chain of Title

**PAOLA INDUSTRIAL PARK
1410 INDUSTRIAL PARK DR
PAOLA, KS 66071**

**INQUIRY NUMBER: 4941399.14
JUNE 06, 2017**

The EDR 1940 Chain of Title



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

EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property.

A network of professional abstractors following established procedures, uses client supplied address information to locate:

- Historical Chain of Title research
- Leases and Miscellaneous

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

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

PAOLA INDUSTRIAL PARK
CITY OF PAOLA
PAOLA, KS 66071

RESEARCH SOURCE

SOURCE 1: MIAMI COUNTY RECORDER OF DEEDS

SOURCE 2: MIAMI COUNTY ASSESSOR

EXAMINER'S NOTE: PUBLIC RECORDS OF MIAMI COUNTY, KS WERE SEARCHED FROM JANUARY 1, 1940 TO JUNE 05, 2017, AND NO DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER: CITY OF PAOLA
LEGAL DESCRIPTION: AS RECORDED IN THE DEED BELOW

PROPERTY IDENTIFIERS: 132-10-0-30-01-009.040

GENERAL COMMENTS:

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

LEASES AND MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 132-10-0-30-01-009.040

CHAIN 1

TYPE OF DEED:	NA
TITLE IS VESTED IN:	CITY OF PAOLA
TITLE RECEIVED FROM:	NA
DATE EXECUTED:	NA
DATE RECORDED:	NA
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	ACCORDING TO COUNTY RECORDS THIS PROPERTY HAS BELONGED TO THE CITY OF PAOLA SINCE PATENT. RECORDS WERE SEARCHED BACK TO 1930, NO DEED WAS FOUND OF RECORD.

EDR Chain of Title

LEASES AND MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

LEASES AND MISCELLANEOUS

1. TYPE OF INSTRUMENT NONE IDENTIFIED
FIRST PARTY
SECOND PARTY
RECORDED
BOOK
PAGE
DOCUMENT NO.
COMMENTS

MIORION Property Record Card

Parcel ID: 061-132-10-0-30-01-009.04-0

Quick Ref: R9560

Tax Year: 2017

Run Date: 6/5/2017 3:06:13 PM

OWNER NAME AND MAILING ADDRESS

PAOLA CITY

PO BOX 409
PAOLA, KS 66053

PROPERTY SITUS ADDRESS

1410 INDUSTRIAL PARK DR
Paola, KS 66071

LAND BASED CLASSIFICATION SYSTEM

Function: 9965 Institutional high Sfx:
Activity: 4000 Social, institutional, infrastruc
Ownership: 4110 City
Site: 2100 Site that is graded with no str

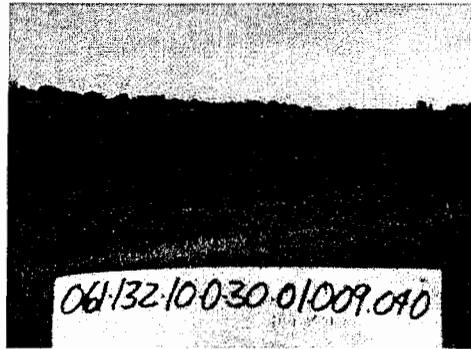


Image Date: 10/08/2014

GENERAL PROPERTY INFORMATION

Prop Class: E Exempt - E
Living Units:
Zoning:
Neighborhood: 403.3 403.3
Economic Adj. Factor:
Map / Routing:
Tax Unit Group: 003

PROPERTY FACTORS

Topography: Above Street - 2
Utilities: All Public - 1
Access: Paved Road - 1
Fronting: Secondary Street - 3
Location: Commercial/Industrial Park - 7
Parking Type: None - 0
Parking Quantity: None - 0
Parking Proximity: Far - 0
Parking Covered:
Parking Uncovered:

INSPECTION HISTORY

Date	Time	Code	Reason	Appraiser	Contact	Code
08/19/2014	11:10 AM	0	RI	SWP	VACANT	
08/14/2013	1:50 PM	0	RI	SWP	VACANT	
03/13/2008	12:00 PM	9		PAS	REINSPECTION	

SALES INFORMATION

Date	Type	Sale Amount	Src	Valdity	Inst Type	COV
------	------	-------------	-----	---------	-----------	-----

BUILDING PERMITS

Number	Amount	Type	Issue Date	Status	% Comp
--------	--------	------	------------	--------	--------

RECENT APPEAL HISTORY

Tax Year	Hearing Date	Appeal Level	Case Number	Status	Final Action	Results Code	Hearing Value
----------	--------------	--------------	-------------	--------	--------------	--------------	---------------

2017 APPRAISED VALUE

Cls	Land	Building	Total
E	370.260	0	370.260

2016 APPRAISED VALUE

Cls	Land	Building	Total
E	370.260	0	370.260

Total	370.260	0	370.260	Total	370.260	0	370.260
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TRACT DESCRIPTION

PAOLA INDUSTRIAL PARK BLK 1 SU, S10, T17, R23, ACRES 24.2, W518.9 LT 3 & ALL LTS 4-5-6 & TR BEG NW/4 LT 7 TH SELY284.4 NELY333.5 NWLY325.8 SWLY310.8 TO POB

PARCEL COMMENTS

GenLink: 061-132-10-0-30-01-009.08-0-, 061-132-10-0-30-02-009.08-0-; Prop-NC: LS; Prop-Com: LS-SPLIT 10.3AC TO #9.06 9/00; Land-Ac/Sf: undeveloped

MARKET LAND INFORMATION

Method	Type	AC/SF	Eff FF	Depth	D-Fact	Inf1	Fact1	Inf2	Fact2	OVRD	Rsn	Cls	Model	Base Size	Base Val	Inc Val	Dec Val	Value Est
Acre	6-Undeveloped - 6	24.20				5	90						23	1.00	17,000.00	17,000.00	17,000.00	370,260

Total Market Land Value 370,260

**PAOLA INDUSTRIAL PARK
1410 INDUSTRIAL PARK DR
PAOLA, KS 66071**

**INQUIRY NUMBER: 4941399.14
JUNE 06, 2017**

The EDR 1940 Chain of Title



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

EDR Chain of Title

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- Historical Chain of Title research
- Leases and Miscellaneous

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

PAOLA INDUSTRIAL PARK
INDUSTRIAL PARK DR
PAOLA, KS 66071

RESEARCH SOURCE

SOURCE 1: MIAMI COUNTY RECORDER OF DEEDS

SOURCE 2: MIAMI COUNTY ASSESSOR

EXAMINER'S NOTE: PUBLIC RECORDS OF MIAMI COUNTY, KS WERE SEARCHED FROM JANUARY 1, 1940 TO JUNE 05, 2017, AND NO DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER: CITY OF PAOLA
LEGAL DESCRIPTION: AS RECORDED IN THE DEED BELOW

PROPERTY IDENTIFIERS: 132-10-0-30-02-009.080

GENERAL COMMENTS:

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

LEASES AND MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 132-10-0-30-02-009.080

CHAIN 1

TYPE OF DEED:	NA
TITLE IS VESTED IN:	CITY OF PAOLA
TITLE RECEIVED FROM:	NA
DATE EXECUTED:	NA
DATE RECORDED:	NA
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	ACCORDING TO COUNTY RECORDS THIS PROPERTY HAS BELONGED TO THE CITY OF PAOLA SINCE PATENT. RECORDS WERE SEARCHED BACK TO 1930, NO DEED WAS FOUND OF RECORD.

EDR Chain of Title

LEASES AND MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

LEASES AND MISCELLANEOUS

1. TYPE OF INSTRUMENT NONE IDENTIFIED
FIRST PARTY
SECOND PARTY
RECORDED
BOOK
PAGE
DOCUMENT NO.
COMMENTS

MIORION Property Record Card

Parcel ID: 061-132-10-0-30-01-009.08-0

Quick Ref: R302564

Tax Year: 2017

INACTIVE

Run Date: 6/5/2017 3:08:49 PM

OWNER NAME AND MAILING ADDRESS

PAOLA CITY

PO BOX 409
PAOLA, KS 66053

PROPERTY SITUS ADDRESS

00000 INDUSTRIAL PARK DR
Paola, KS 66071

No Image Available

LAND BASED CLASSIFICATION SYSTEM

Function: 9965 Institutional high Sfx:
Activity: 4000 Social, institutional, infrastruc
Ownership: 4110 City
Site: 2100 Site that is graded with no str

Image Date:

GENERAL PROPERTY INFORMATION

Prop Class: E Exempt - E
Living Units:
Zoning:
Neighborhood: 403.3 403.3
Economic Adj. Factor:
Map / Routing:
Tax Unit Group: 003

PROPERTY FACTORS

Topography: Above Street - 2
Utilities: All Public - 1
Access: Semi Improved Road - 2
Fronting: Secondary Street - 3
Location: Commercial/Industrial Park - 7
Parking Type: None - 0
Parking Quantity: None - 0
Parking Proximity: Far - 0
Parking Covered:
Parking Uncovered:

INSPECTION HISTORY

Date	Time	Code	Reason	Appraiser	Contact	Code
------	------	------	--------	-----------	---------	------

BUILDING PERMITS

Number	Amount	Type	Issue Date	Status	% Comp
--------	--------	------	------------	--------	--------

2017 APPRAISED VALUE

Cls	2017 APPRAISED VALUE			Cls	2016 APPRAISED VALUE		
	Land	Building	Total		Land	Building	Total
Total	0	0	0	Total	0	0	0

TRACT DESCRIPTION

PAOLA INDUSTRIAL PARK BLK 1 SU, ACRES
5.2, TR BEG 312.7E SW/C LT7 PAOLA
INDUSTRIAL PARK SUBD TH E172.2 NELY374.2
N378.8 W404.2 SWLY144 S408.6 TO POB

PARCEL COMMENTS

GenLink: 061-132-10-0-30-01-009.04-0-; Prop-Com: SPLIT 5.2AC FROM #009.04 PER SURVEY P10-17 6/10

MARKET LAND INFORMATION

Method	Type	AC/SF	Eff FF	Depth	D-Fact	Inf1	Fact1	Inf2	Fact2	OVRD	Rsn	Cls	Model	Base Size	Base Val	Inc Val	Dec Val	Value Est
--------	------	-------	--------	-------	--------	------	-------	------	-------	------	-----	-----	-------	-----------	----------	---------	---------	-----------

Total Market Land Value 0

Appendix K
Photograph Log



Photograph #1	1410 Industrial Drive and No # Industrial Drive	B1704612
Date:	May 19, 2017	
Direction:	East	
Subject:	Northern property boundary	



Photograph #2	1410 Industrial Drive and No # Industrial Drive	B1704612
Date:	May 19, 2017	
Direction:	South	
Subject:	Western property boundary	



Photograph #3	1410 Industrial Drive and No # Industrial Drive	B1704612
Date:	May 19, 2017	
Direction:	East	
Subject:	Southern property boundary	



Photograph #4	1410 Industrial Drive and No # Industrial Drive	B1704612
Date:	May 19, 2017	
Direction:	South	
Subject:	Eastern property boundary	



Photograph #5	1410 Industrial Drive and No # Industrial Drive	B1704612
Date:	May 19, 2017	
Direction:	South	
Subject:	Community garden	



Photograph #6	1410 Industrial Drive and No # Industrial Drive	B1704612
Date:	May 19, 2017	
Direction:	West	
Subject:	Property entrance, with water hydrant beyond	



Photograph #7	1410 Industrial Drive and No # Industrial Drive	B1704612
Date:	May 19, 2017	BRAUN INTERTEC
Direction:	West	
Subject:	Lighthouse Presbyterian Church (adjacent)	

Appendix L

References

ASTM Standard and AAI References

Environmental Protection Agency 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries, Final Rule, Vol. 70, No. 210, Tuesday, November 1, 2005, Rules and Regulations.

ASTM Standard E1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM International, West Conshohocken, PA., 2013. DOI: 10.1520/E1527-13, www.astm.org.

Historical Information

Environmental Data Resources, Inc. (EDR), "EDR Radius Map with GeoCheck®", Paola Industrial Park, Inquiry Number: 4941399.2s, dated May 18, 2017.

"Kansas Geological Survey (KGS) Water Well Completion Records (WWC5) Database," <http://www.kgs.ku.edu/Magellan/WaterWell/index.html> (May 19, 2017).

"Kansas Geological Survey (KGS) Oil and Gas Wells and Fields," <http://maps.kgs.ku.edu/oilgas/index.cfm> (May 19, 2017).

"Kansas Department of Health and Environment (KDHE) Environmental Interest Finder (KEIF)," <https://maps.kdhe.state.ks.us/keif/> (May 19, 2017).

"Kansas Department of Health and Environment (KDHE) Environmental Use Control & Institutional Controls (EUC/IC)," <http://maps.kdhe.state.ks.us/InteractiveEUC/> (May 19, 2017).

Geology Information

"Web Soil Survey: Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture," *Web Soil Survey*, May 19, 2017, <http://websoilsurvey.nrcs.usda.gov/app/>, (May 19, 2017).

"Miller, Don E., 1966, *Geology and Ground-Water Resources of Miami County, Kansas*. Kansas Geological Survey Bulletin 181. Accessed 6/5/2017 on line at: <http://www.kgs.ku.edu/General/Geology/Miami/index.html>

Appendix M

Resumes

EDUCATION

Bachelor of Science, Environmental Management, Northeastern State University, Tahlequah, Oklahoma, 2004

Master of Science, Environmental Science, Arizona State University, Tempe, Arizona, 2011

CERTIFICATIONS

OSHA 40-Hour Hazardous Waste Operations Certification (29 CFR 1910.120)

OSHA 40-Hour HAZWOPER

OSHA 8-Hour Supervisor Training

OSHA 10-Hour Construction Safety Training

UPRR eRailSafe

BNSF Contractor Safety Orientation

Mr. Moreland has over eight years of environmental consulting experience on various projects relating to Phase I Environmental Site Assessments, environmental compliance audits, underground storage tank investigations, environmental investigations and agricultural investigations. Prior to his work as an environmental consultant, he spent three years as an environmental and safety supervisor for a national baking company.

PROJECT EXPERIENCE

- **Multiple Phase I and Phase II Environmental Site Assessments** – Mr. Moreland completed cost estimates, proposals, and Phase I and Phase II reports. Site backgrounds varied from agricultural to industrial/commercial to vacant rural lots. Field activities include site walk-thrus, interviews, research, installation of groundwater monitoring wells, and soil borings for soil sampling. Sites were located in multiple states across the US.
- **Voluntary Cleanup Program (VCP) Multiple Sites/States** – Mr. Moreland completed cost estimates, proposals, voluntary cleanup investigation (VCI) work plans, VCI reports and additional addendums for multiple sites across Kansas and Missouri. The site includes two former dry cleaning facilities and a former vehicle maintenance shop. Field activities include installation of groundwater monitoring wells, soil borings, and excavation of mass source area soil via mobile lab and field screening. Communicate regularly with the client and state agency concerning progress and future plans for the site.
- **Site Investigations** – Mr. Moreland has led multiple site investigations for proposed and existing facilities across the US. The sites include vacant farmland, shopping centers, gasoline stations, agricultural facilities, retail warehouses and residential areas. Field activities include installation of groundwater monitoring wells, soil sampling via soil borings, indoor/outdoor air sampling and sub-slab vapor sampling.
- **Multiple Source Removal Excavations** – Mr. Moreland oversaw excavation of soil to remove source contamination. Oversight included communicating with excavators and dump trucks removing the soil, and

collecting soil samples for determining extent. Communicated with the client and state agency as field activities progressed.

- **Phytoremediation and Soil Microemulsion Injections** – Developed plans for installing phytoremediation (groundwater diversion, specific tree and grass planting for uptake and installation of 2,500 gallon vessels for denitrification of water). Microemulsion injections were conducted by injecting directly into groundwater via horizontal wells to reduce source contaminants.
- **Property Liability Memorandum (PLM)** – PLMs were specific to agriculture sites and facilities across the US. Mr. Moreland completed cost estimates, proposals, and reports, while field activities include site walk-thrus (attention to agriculture specific issues), interviews, and research.
- **Environmental Protection Agency (EPA) Monitoring and Injections** – Field team leader for quarterly groundwater monitoring of large sites
Field team leader during chemical oxidation injections
Communicated with homeowners, client and EPA frequently.
- **US Army Corps of Engineers and Missouri Department of Natural Resources (MDNR)** – Mr. Moreland Soil boring sampling at multiple locations along the Missouri River
Quarterly groundwater monitoring at conservation site near St. Louis
Communicated with MDNR, client and USACE frequently.
- **Project Budget and Management** – Mr. Moreland assisted project managers with managing budgets, developing costs and billing for multiple projects across multiple states.

Attachment Seven

Soil Boring Report



Office: 913.894.5150
Fax: 913.894.5977
Web: www.kveng.com
Address: 14700 West 114th Terrace
Lenexa, KS 66215

November 21, 2019

C19G0413

Ms. Randi Shannon
City of Paola, Kansas
19 East Peoria
Paola, Kansas 66071

**RE: SUBSURFACE EXPLORATION LETTER
INDUSTRIAL PARK
NORTH HOSPITAL DRIVE AND INDUSTRIAL DRIVE
PAOLA, KANSAS**

Dear Ms. Shannon:

This letter report presents the results of a subsurface exploration the referenced project. This exploration was conducted in general accordance with our proposal dated October 30, 2019. The purpose of this study was to define the subsurface conditions at the site.

PROJECT AND SITE DESCRIPTION

The site of exploration is located northeast of the intersection of North Hospital Drive and Industrial Drive in Paola, Kansas. The borings were performed within the Industrial Park Tracts 2, 3, 4, and 5. The site and surrounding area are displayed on Plate 1.

FIELD EXPLORATION

The field exploration was performed on November 11 through 13, 2019, and included drilling sixteen test borings, identified as B-1 through B-16. The following borings were drilled for each tract:

- Tract 2: Borings 11 through 14
- Tract 3: Borings B-9, B-10, B-14, and B-15
- Tract 4: Borings B-1, B-2, B-7, and B-8
- Tract 5: Borings B-3 through B-6

The locations were estimated from measurements from existing surface features. The elevations were estimated using Google Earth. The boring locations are displayed on Plate 1.

The borings were drilled using a truck-mounted CME-45 drill rig with 4-inch O.D. continuous flight augers. The borings were drilled to depths ranging from 4.0 to 18.0 feet below the existing ground surface. Detailed logs of the borings are displayed on Plates 2 through 17.

The borings were logged in the field by the driller based upon visual classifications of materials encountered during drilling, as well as the driller's interpretation of the subsurface conditions between samples. Final boring logs included with this report represent the engineer's interpretation of the field logs.

* * * * *

The following plates are attached to and complete this report:

Plate 1 – Boring Location Plan

Plates 2 through 17 – Logs of Borings

Boring Log Reference Legend

* * * * *

We appreciate the opportunity to be of service to you on this project. Please do not hesitate to contact us if you have any questions or comments.

Respectfully submitted,
Kaw Valley Engineering, Inc.



Jessica A. Nixon, P.E.
Geotechnical Engineer



Site Plan and Boring Locations

Plate 1

PAOLA INDUSTRIAL PARK
 N Hospital Dr and Industrial Dr
 Paola, Kansas



KAW VALLEY
 ENGINEERING

Approved By: JAN

Not to Scale

Project No. C19G0413

LOG OF BORING B-1



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
 Lenexa, Kansas 66215
 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/11/19 - 11/11/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA				
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D	
					LL	PL	PI	DRILL RIG OPERATOR: Curk Creed								
														LOGGED BY: Daniel Johnson		
														GROUNDWATER INFORMATION:		
														SURFACE ELEVATION: 918'		
														DESCRIPTION OF STRATUM		
5																TOPSOIL (3") 917.7'
																FAT CLAY: Dark brown; stiff; moist 916.5'
				9.5	33.0	66	22	44	87.0							FAT CLAY: Gray; stiff; moist 914.0'
				12.5	29.2				93.1							LEAN CLAY: Reddish Gray; firm; moist 910.0'
				9	37.9				80.6							LIMESTONE: Light gray; slightly weathered 908.5'
				BORING TERMINATED AT 9.5'												Auger Refusal at 9.5'

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-2



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
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 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/11/19 - 11/11/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
						LL	PL	PI					DRILL RIG OPERATOR: Curk Creed
													LOGGED BY: Daniel Johnson
													GROUNDWATER INFORMATION: Water level while boring - 6.5'
													SURFACE ELEVATION: 922'
													DESCRIPTION OF STRATUM
1													TOPSOIL (3") 921.7'
													FAT CLAY: Dark brown; stiff; moist
5			T = 2/4/6		29.4								917.0'
													FAT CLAY: Reddish gray; stiff; moist; with trace sand
													915.0'
													LEAN CLAY: Reddish light brown; stiff; moist
10			T = 4/5/7		36.1								912.5'
													912.0'
													911.5'
													SHALE: Light brown; weathered
													LIMESTONE: Light gray; slightly weathered
BORING TERMINATED AT 10.5'													Auger refusal at 10.5'

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-3



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 14700 W 114th Terrace
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 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/12/19 - 11/12/19

FIELD DATA		LABORATORY DATA										
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	ATTERBERG LIMITS			MOISTURE CONTENT (%)	DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)
					LL	PL	PI					
GROUNDWATER INFORMATION:												
Water level while boring - 1.0'												
Water level after boring - 5.0'												
SURFACE ELEVATION: 920'												
DESCRIPTION OF STRATUM												
TOPSOIL (3") 919.7'												
LEAN CLAY: Dark brown; firm; moist 919.3'												
FAT CLAY: Brown clay; stiff; moist												
916.0'												
FAT CLAY: Reddish gray; stiff; moist												
913.5'												
LIMESTONE: Light gray; slightly weathered 913.0'												
BORING TERMINATED AT 7.0'												
Auger refusal at 7.0'												

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-4



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 14700 W 114th Terrace
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 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/12/19 - 11/12/19

FIELD DATA			LABORATORY DATA										DRILLING METHOD(S): 4" CFA
SOIL SYMBOL	DEPTH (FT)	SAMPLES N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D	
					LL	PL	PI					DRILL RIG OPERATOR: Curk Creed	
												LOGGED BY: Daniel Johnson	
												GROUNDWATER INFORMATION: Water level while boring - 6.0' Water level after boring - 7.0'	
												SURFACE ELEVATION: 920'	
												DESCRIPTION OF STRATUM	
1												TOPSOIL (4")	919.7'
												LEAN CLAY: Dark brown; firm; moist	
5		T = 2/2/4		32.8								FAT CLAY: Dark brown mottled light brown; stiff; moist	916.0'
												LIMESTONE: Light gray; slightly weathered	912.5' 912.0'
		BORING TERMINATED AT 8.0'											
10													
15													
20													

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-5



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 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/12/19 - 11/12/19

FIELD DATA				LABORATORY DATA								DRILLING METHOD(S): 4" CFA			
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
					LL	PL	PI	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					DRILL RIG OPERATOR: Curk Creed
														LOGGED BY: Daniel Johnson	
														GROUNDWATER INFORMATION: Water level while boring - 8.0' Water level after boring - 8.5'	
														SURFACE ELEVATION: 924'	
														DESCRIPTION OF STRATUM	
															TOPSOIL (2')
					6	36.5	63	25	38						922.0'
															FAT CLAY: Dark brown; firm; moist
															921.0'
				12	27.0					95.5					FAT CLAY: Dark brown reddish brown; stiff; moist
	5														919.0'
															FAT CLAY: Reddish gray; stiff; moist
															916.0'
															LEAN CLAY: Light brown; firm; moist; with trace silt
															915.0'
															LIMESTONE: Light gray; slightly weathered
															914.5'
	10														BORING TERMINATED AT 9.5'
															Auger refusal at 9.5'
	15														
	20														

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-6



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
 Lenexa, Kansas 66215
 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/12/19 - 11/12/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
						LL	PL	PI					DRILL RIG OPERATOR: Curk Creed
													LOGGED BY: Daniel Johnson
													GROUNDWATER INFORMATION:
													Water level while boring - 5.5'
													Water level after boring - 6.0'
													SURFACE ELEVATION: 915'
													DESCRIPTION OF STRATUM
[Symbol]	0												TOPSOIL (3.5')
	5		T = 3/4/6		24.4								911.5'
			▽										910.0'
													907.5'
													907.0'
	10		BORING TERMINATED AT 8.0'										Auger refusal at 8.0'
	15												
	20												

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-7



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
 Lenexa, Kansas 66215
 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/12/19 - 11/12/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA DRILL RIG: CME 45D DRILL RIG OPERATOR: Curk Creed LOGGED BY: Daniel Johnson <hr/> GROUNDWATER INFORMATION: Water level while boring - Dry Water level after boring - Dry <hr/> SURFACE ELEVATION: 914' <hr/> DESCRIPTION OF STRATUM			
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT			COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)
						LL	PL	PI							
1	0														TOPSOIL (3") 913.7'
															LEAN CLAY: Dark brown; firm; moist 912.7'
				14	28.9					90.4					FAT CLAY: Light red brown; stiff; moist 910.5'
				12	29.4					93.8					FAT CLAY: Reddish gray; stiff; moist 909.0'
	5														LIMESTONE: Light gray; slightly weathered 908.5'
				BORING TERMINATED AT 5.5'										Auger refusal at 5.5'	

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-8



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
 Lenexa, Kansas 66215
 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/12/19 - 11/12/19

FIELD DATA			LABORATORY DATA										DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
				LL	PL	PI	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					DRILL RIG OPERATOR: Curk Creed
													LOGGED BY: Daniel Johnson	
													GROUNDWATER INFORMATION: Water level while boring - Dry Water level after boring - Dry	
													SURFACE ELEVATION: 915'	
													DESCRIPTION OF STRATUM	
1	0												TOPSOIL (3")	914.7'
													FAT CLAY: Dark red brown; stiff; moist	
	5	T = 3/6/9		23.8									FAT CLAY: Reddish gray; stiff; moist	911.5'
	10	T = 3/4/6		35.2									LEAN CLAY: Light brown gray; firm; moist	906.5'
													LIMESTONE: Light gray; slightly weathered	905.0' 904.5'
BORING TERMINATED AT 10.5'													Auger refusal at 10.5'	

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-9



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 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
						LL	PL	PI					DRILL RIG OPERATOR: Curk Creed
													LOGGED BY: Joe Keim
													GROUNDWATER INFORMATION: Water level while boring - 3.0'
													SURFACE ELEVATION: 912'
													DESCRIPTION OF STRATUM
[Symbol]													TOPSOIL (12") 911.0'
[Symbol]				8	28.9	49	18	31	94.6				LEAN TO FAT CLAY: Dark gray; firm; moist 909.0'
[Symbol]													LIMESTONE: Light gray; slightly weathered 908.0'
	5		BORING TERMINATED AT 4.0'										Auger refusal at 4.0'
	10												
	15												
	20												

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
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 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-10



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 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA				LABORATORY DATA								DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
						LL	PL	PI					DRILL RIG OPERATOR: Curk Creed
													LOGGED BY: Joe Keim
													GROUNDWATER INFORMATION: Water level while boring - Dry Water level after boring - Dry
													SURFACE ELEVATION: 916'
													DESCRIPTION OF STRATUM
[Symbol]	0												TOPSOIL (12")
[Symbol]	5				28.0								FAT CLAY: Dark brown; stiff; moist
[Symbol]	5.5												LIMESTONE: Light gray; slightly weathered
BORING TERMINATED AT 5.5'													Auger refusal at 5.5'

T = 3/5/6

915.0'

911.0'

910.5'

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-11



Kaw Valley Engineering, Inc.
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 Telephone: (913)894-5150
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CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA			LABORATORY DATA								DRILLING METHOD(S): 4" CFA			
SOIL SYMBOL	DEPTH (FT)	SAMPLES N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	
				LL	PL	PI	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					
													DRILLING METHOD(S): 4" CFA	
													DRILL RIG: CME 45D	
													DRILL RIG OPERATOR: Curk Creed	
													LOGGED BY: Joe Keim	
													GROUNDWATER INFORMATION:	
													Water level while boring - Dry	
													Water level after boring - Dry	
													SURFACE ELEVATION: 924'	
													DESCRIPTION OF STRATUM	
													TOPSOIL (12" 923.0'	
													FAT CLAY: Dark gray brown; stiff; moist; with trace sand	
	5		9	26.3					96.4					
			11	26.7					96.5					
													917.0'	
													FAT CLAY: Reddish brown; stiff; moist	
			14	33.7					87.0				914.5'	
	10												SHALE: Yellowish brown; slightly weathered 914.0'	
			BORING TERMINATED AT 10.0'											Auger refusal at 10.0'

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-12



Kaw Valley Engineering, Inc.
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 Lenexa, Kansas 66215
 Telephone: (913)894-5150
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CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA			
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
					LL	PL	PI	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					DRILL RIG OPERATOR: Curk Creed
GROUNDWATER INFORMATION: Water level while boring - Dry Water level after boring - Dry															
SURFACE ELEVATION: 932'															
DESCRIPTION OF STRATUM															
[Symbol]	0														TOPSOIL (12") 931.0'
[Symbol]	5		T = 3/4/7		30.8										FAT CLAY: Gray brown; stiff; moist 923.0'
[Symbol]	10		T = 6/5/9		20.6										HIGHLY WEATHERED SHALE: Yellowish brown; highly weathered 918.5'
[Symbol]	15		T = 8/17/21		17.9										SHALE: Yellowish brown; moderately to slightly weathered 916.0'
BORING TERMINATED AT 16.0'															
Auger refusal at 16.0'															

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-13



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CLIENT: City of Paola
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 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA			
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
					LL	PL	PI	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					DRILL RIG OPERATOR: Curk Creed
GROUNDWATER INFORMATION: Water level while boring - Dry Water level after boring - Dry															
SURFACE ELEVATION: 938'															
DESCRIPTION OF STRATUM															
[Symbol]	0														TOPSOIL (12") 937.0'
[Symbol]	5			16	31.0	65	22	43	91.1						FAT CLAY: Light gray brown; stiff; moist; with trace sand 934.0'
[Symbol]	10			14	29.4				96.1						HIGHLY WEATHERED SHALE: Yellowish brown 929.0'
[Symbol]	15								111.7						SHALE: Yellowish brown; moderately to slightly weathered; with trace sand 920.0'
	18.0														BORING TERMINATED AT 18.0' Auger refusal at 18.0'

T = 16/28/38

BORING TERMINATED AT 18.0'

REMARKS:
 Surficial Conditions - Grass

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

LOG OF BORING B-14



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
 Lenexa, Kansas 66215
 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
						LL	PL	PI					DRILL RIG OPERATOR: Curk Creed
													LOGGED BY: Joe Keim
													GROUNDWATER INFORMATION:
													SURFACE ELEVATION: 928'
													DESCRIPTION OF STRATUM
TOPSOIL (12")													927.0'
HIGHLY WEATHERED SHALE: Yellowish brown													920.0'
SHALE: Yellow brown; moderately weathered to slightly weathered; with trace sand													916.5'
BORING TERMINATED AT 11.5'													Auger refusal at 11.5'

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-15



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
 Lenexa, Kansas 66215
 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA				LABORATORY DATA								DRILLING METHOD(S): 4" CFA			
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)			ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
					LL	PL	PI	LL	PL	PI					DRILL RIG OPERATOR: Curk Creed
														LOGGED BY: Joe Keim	
														GROUNDWATER INFORMATION:	
														Water level while boring - Dry Water level after boring - Dry	
														SURFACE ELEVATION: 921'	
														DESCRIPTION OF STRATUM	
														TOPSOIL (12") 920.0'	
														FAT CLAY: Brown to dark brown; stiff; moist 917.0'	
	5			14	32.3					84.6				BORING TERMINATED AT 4.0'	
				6	34.6					89.6					Auger refusal at 4.0'
	10														
	15														
	20														

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
 RQD - ROCK QUALITY DESIGNATION

REMARKS:
 Surficial Conditions - Grass

LOG OF BORING B-16



Kaw Valley Engineering, Inc.
 14700 W 114th Terrace
 Lenexa, Kansas 66215
 Telephone: (913)894-5150
 Fax: (913)894-5977

CLIENT: City of Paola
 PROJECT: Industrial Park Tracts 2-5
 NUMBER: C19G0413
 LOCATION: North Hospital Dr & Industrial Dr - Paola, KS

DATE(S) DRILLED: 11/13/19 - 11/13/19

FIELD DATA			LABORATORY DATA										DRILLING METHOD(S): 4" CFA
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45D
						LL	PL	PI					DRILL RIG OPERATOR: Curk Creed
													LOGGED BY: Joe Keim
													GROUNDWATER INFORMATION: Water level while boring - Dry Water level after boring - Dry
													SURFACE ELEVATION: 915'
													DESCRIPTION OF STRATUM
[Symbol]													TOPSOIL (12")
													914.0'
[Symbol]													FAT CLAY: Reddish brown; stiff; moist
													911.0'
[Symbol]			T = 6/7/8		27.4								SHALE: Reddish brown; moderately to slightly weathered
	5												910.0'
BORING TERMINATED AT 5.0'													Auger refusal at 5.0'
	10												
	15												
	20												

N - STANDARD PENETRATION TEST RESISTANCE
 P - POCKET PENETROMETER RESISTANCE
 T - BLOWS PER SIX INCHES
 REC - ROCK CORE RECOVERY
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REMARKS:
 Surficial Conditions - Grass

BORING LOG REFERENCE LEGEND

DESCRIPTIVE SOIL CLASSIFICATION

Soil description is based on the Unified Soil Classification System as outlined in ASTM Designation D-2487. The Unified Soil Classification group symbol for soil descriptions shown on the boring logs corresponds with the group names listed below. The description includes soil constituents, consistency, relative density, color and any other appropriate descriptive terms. Geologic description of bedrock, when encountered, is also shown in the description column. Refer to the appropriate notes for bedrock classification.

Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name
GW	Well graded gravel	SW	Well graded sand	CL	Lean clay	CH	Fat clay
GP	Poorly graded gravel	SP	Poorly graded sand	ML	Silt	MH	Elastic silt
GM	Silty gravel	SM	Silty sand	OL	Organic clay Organic silt	OH	Organic clay Organic silt
GC	Clayey gravel	SC	Clayey sand			PT	Peat

CONSISTENCY OF FINE-GRAINED SOILS

Unconfined Compressive Strength, Q_u , psf

< 500	Very Soft
500 – 1,000	Soft
1,001 – 2,000	Firm
2,001 – 4,000	Stiff
4,001 – 8,000	Very Stiff
8,001 – 16,000	Hard
> 16,000	Very Hard

RELATIVE PROPORTIONS

Descriptive Term(s) (Components also Percent in Sample)	Sand & Gravel Percent of Dry Wt.	Fines Percent of Dry Wt.
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Trace	< 15	< 5
Some	15 – 29	5 - 12
Modifier	> 30	> 12

RELATIVE DENSITY OF COARSE-GRAINED SOILS

N - (blows/ft)	Relative Density
0 – 3	Very Loose
4 – 9	Loose
10 – 29	Medium Dense
30 – 49	Dense
50+	Very Dense

GRAIN SIZE TERMINOLOGY

Major Component	Size Range
Cobbles	12 in to 3 in
Gravel	3 in to #4 sieve
Sand	#4 to #200 sieve
Silt or Clay	Passing #200 sieve

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. In pervious soil the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels is not possible with only short-term observation.

DEFINITIONS OF ABBREVIATIONS

CR –	Core recovery, length of core recovered in each run compared to the length drilled expressed as percent
LL –	Liquid limit of specimen
N –	Number of blows to penetrate last 12 inches with 140-pound hammer in standard penetration test Blow count reported for each 6-inch interval on logs
PL –	Plastic limit of specimen
RQD –	Rock quality designation, aggregate length of core pieces greater than 4 inches long, expressed as percent of length drilled
TW –	Thin walled tube
SS –	Standard penetration test
NQ2 –	2 inches diameter core
CFA –	Continuous flight augers
HSA –	Hollow stem augers
EOB –	End of boring

