



PROFESSIONAL ENVIRONMENTAL ENGINEERS, INC.

Providing cost-effective environmental solutions

Kansas PFAS Inventory Project

Bob Loudon, CHMM, Professional Environmental Engineers, Inc.

**Missouri Waste Control Coalition
Environmental Conference - July 2021**

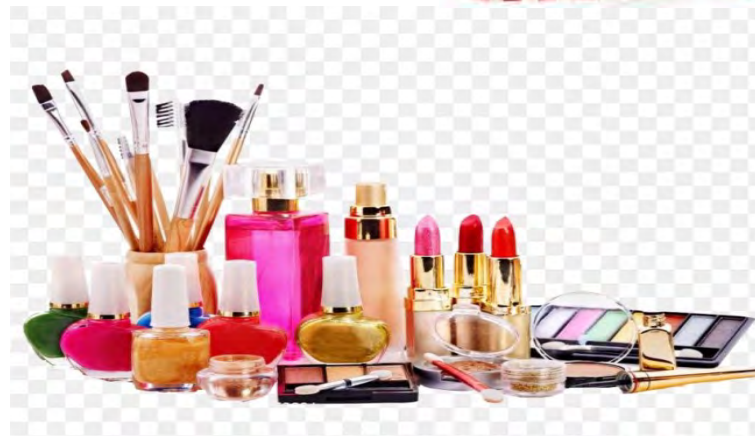


PFAS Background/Characteristics

- PFAS = Per- and Poly-Fluoroalkyl Substances
 - Manmade chemicals w/ adverse health affects
 - 4,000+ synthetic compounds (>11 families)
 - Two main groups/families = PFOS and PFOA
 - Persistent
 - First produced in 1940s; some compounds no longer produced in U.S.
 - Used in a lot of products...



Common products with PFAS



KDHE Environmental Services Contract (2016-2021)

- Pool A (Multiple Programs)
- Pool B (Tanks Program)
- Pool C (Risk Assessment Support)



Statewide PFAS Inventory RFP

- Pool A; Multiple Departments
- 2-page RFP
- Purpose
- Four work Tasks
- NE PFAS Inventory
- Two-month POP (4/1/19 to 5/31/19)

Work awarded to PE on 4/2 on a T&M Basis for a NTE amount of \$39,160.99



Work Strategy/Approach

- Key Personnel
- 1st Month
- 2nd Month
- Results (met deadline, 4 times as many sites as estimated, \$10K under budget)

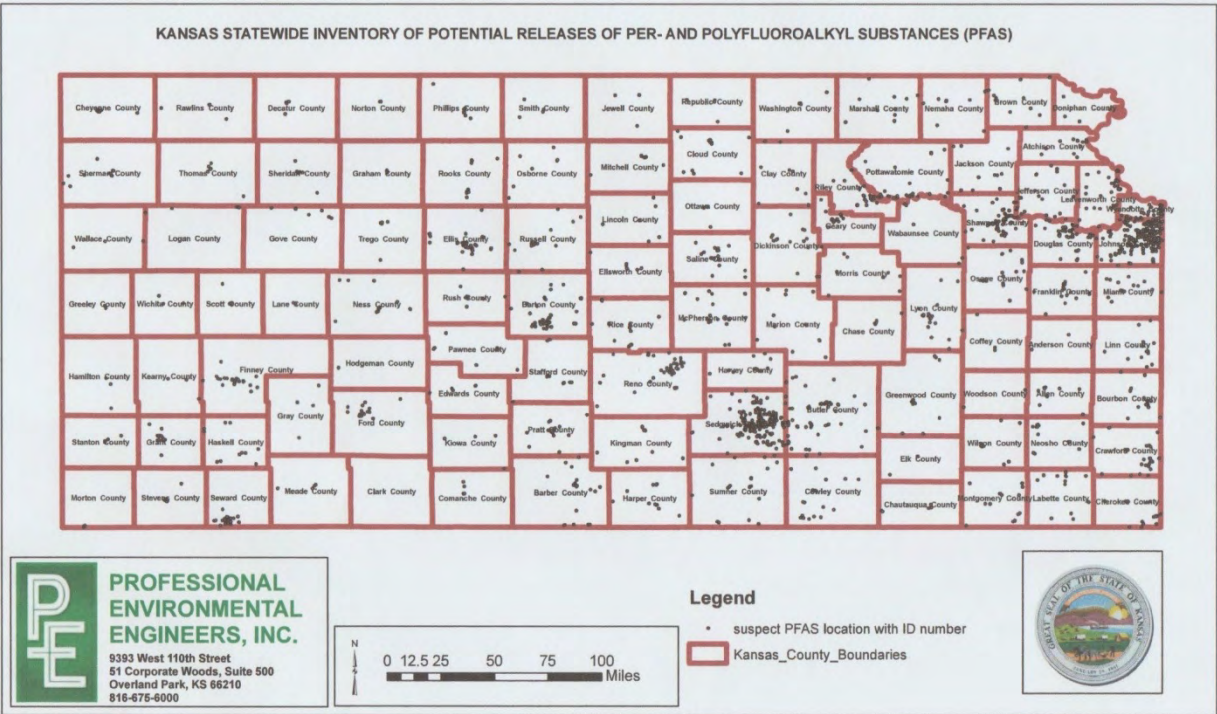
Task 1 - Research/List

- NAICS/SIC Code Searches
- KDHE Databases
- Other
 - Online Historical/Regulatory Info
 - Kansas Data Access & Support Center
 - Interviews
- Manual Data Screening (12000 to 9500)

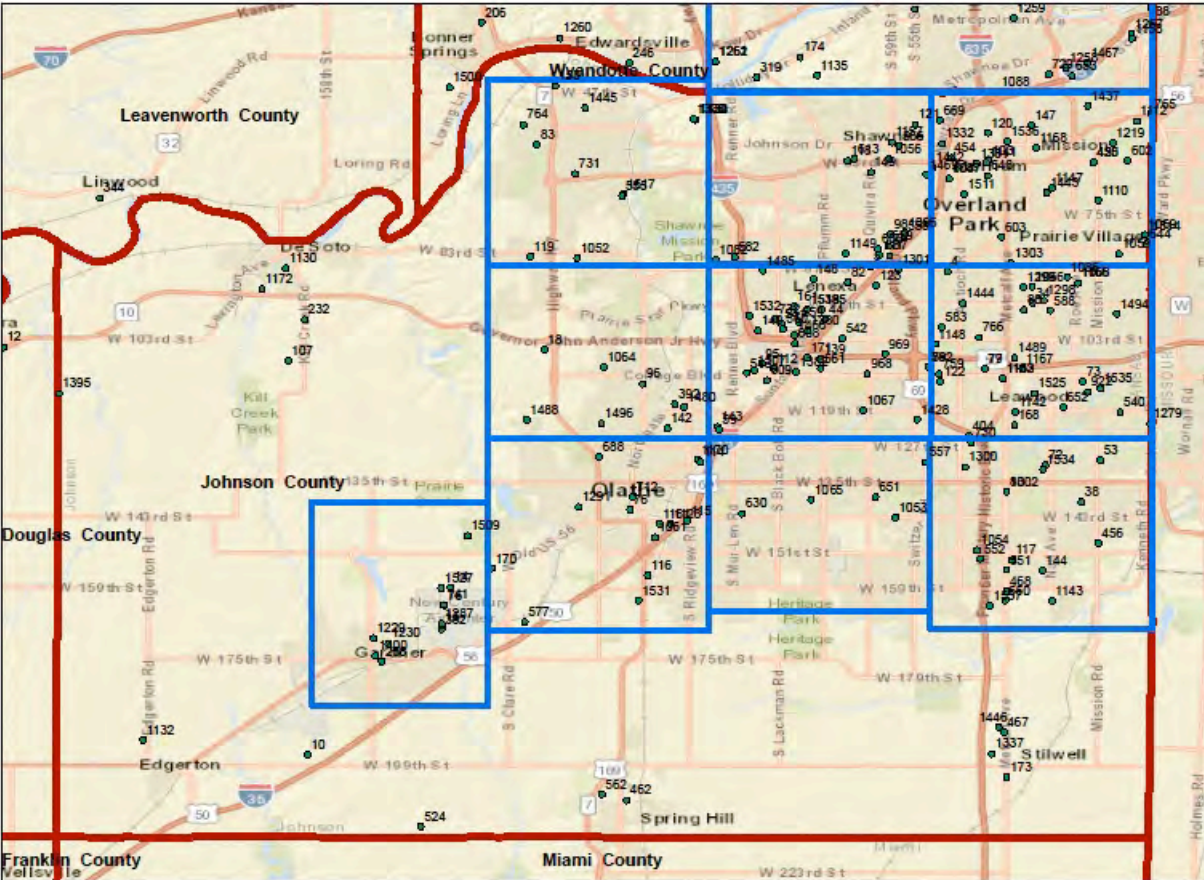
Task 2 - ArcGIS Database & Geocoded State Map



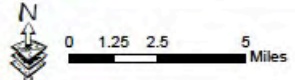
- Pre-Testing in April
- Data Issues (101 sites)
 - Addresses
 - Lat/Long
- Mapping Issues
 - Congested Map (9,500 sites vs 2,500 sites)

Statewide Map with PFAS Sites



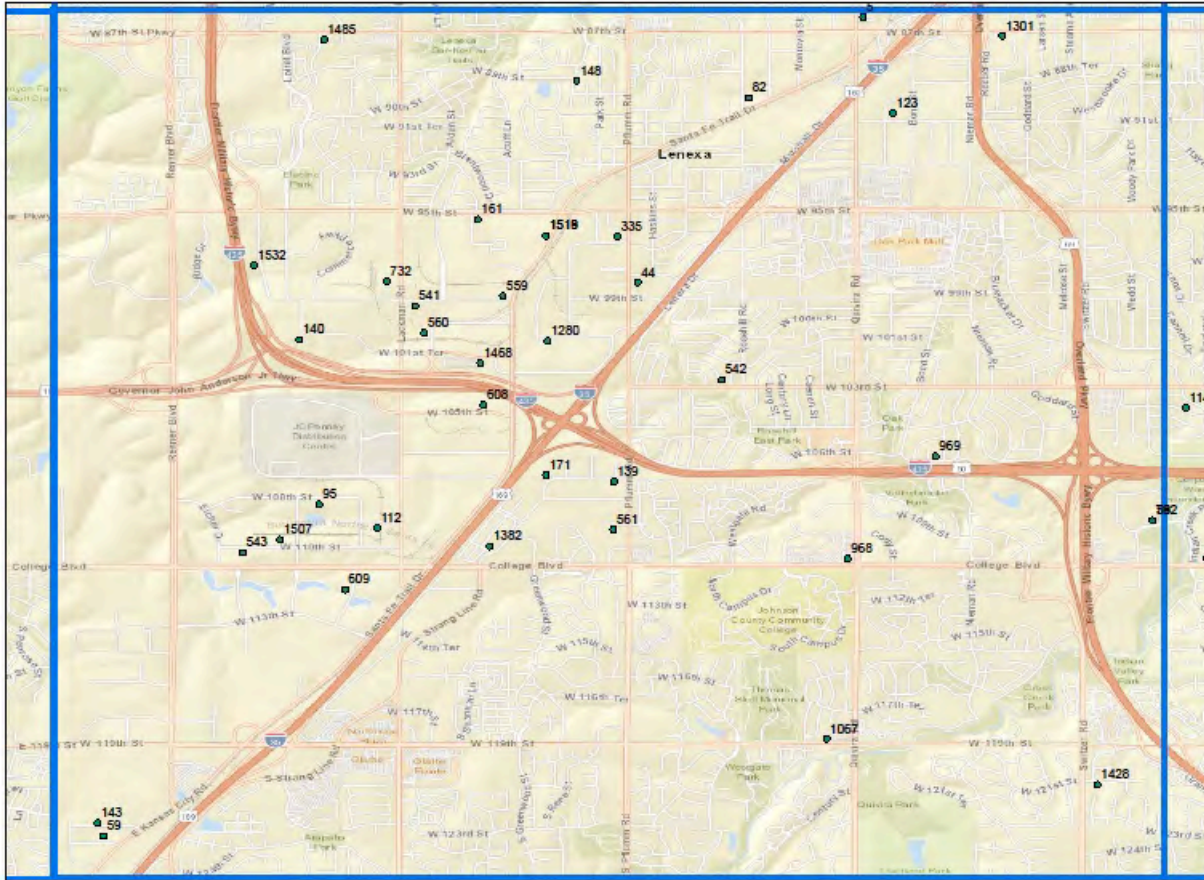
Johnson Co. PFAS Map



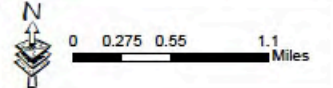


JOHNSON COUNTY FACILITIES MAP	
KANSAS STATEWIDE PERFLUORINATED COMPOUNDS (pfe's) INVENTORY	
STATE OF KANSAS	
	
Legend	
<ul style="list-style-type: none"> ● John Edits to Miles list with data sources and county.cov Ev Kansas_County_Boundaries 	
PROJECT MANAGER	MAP NUMBER
Bob Loudon	map 44
CHECKED BY	DATE
	5/1/2019
PROJECT NUMBER	DRAWN BY
204.01.017	Upstream GIS
 PROFESSIONAL ENVIRONMENTAL ENGINEERS, INC.	
	



Johnson Co. I-35 / I-435 Inset Map



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PROJECT MANAGER	MAP NUMBER
Bob Louden	map 44.5
CHECKED BY	DATE
	5/1/2019
PROJECT NUMBER	DRAWN BY
204.01.017	Upstream GIS & Environmental Solutions
 PROFESSIONAL ENVIRONMENTAL ENGINEERS, INC.	
	



Task 3 - Report

- Summary
- Issues/Resolutions
- Maps
- Spreadsheet/List
- Statewide PFAS Inventory (2019)

http://www.kdheks.gov/pws/documents/PFAS_Inventory_Report.pdf

Task 4 - Meetings/Communication

- Kickoff / Interim / On-Site
- Weekly Meetings / Calls
- E-Mails
- Ad-Hoc Meetings

Other Items/Thoughts

- Final Deliverables
 - Report
 - Database/Map
- Use
 - KDHE
 - Others

Questions?

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