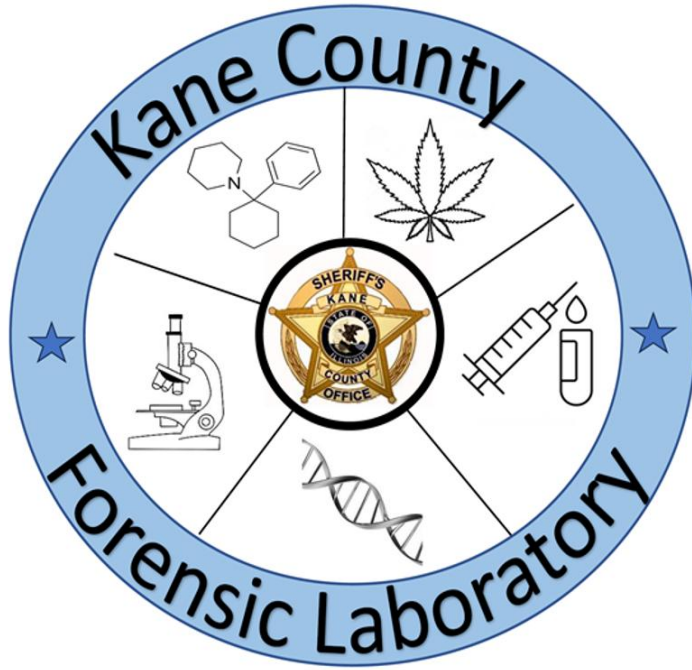


Kane County Forensic Laboratory



Kane County Coroner's Office: Coroner Dr. Monica Silva

Kane County Sheriff's Office: Sheriff Ron Hain

Kane County State's Attorney's Office: SA Jamie Mosser



Timothy Ruppel & Sarah Ware
16 July 2026

Justification for the Kane County Forensic Laboratory

1) Reduce time to generate all in-house testing results

NMS Labs: up to 3 months to generate postmortem toxicology results

- delays issuance of death certificates

IL State Police: up to 1 year to generate DNA profile



2) Reduce outsourcing costs

KC Coroner's Office ~\$100,000/yr on postmortem tox

KC court system \$~70,000/yr on probationary drug screens



Goals of the Kane County Forensic Laboratory

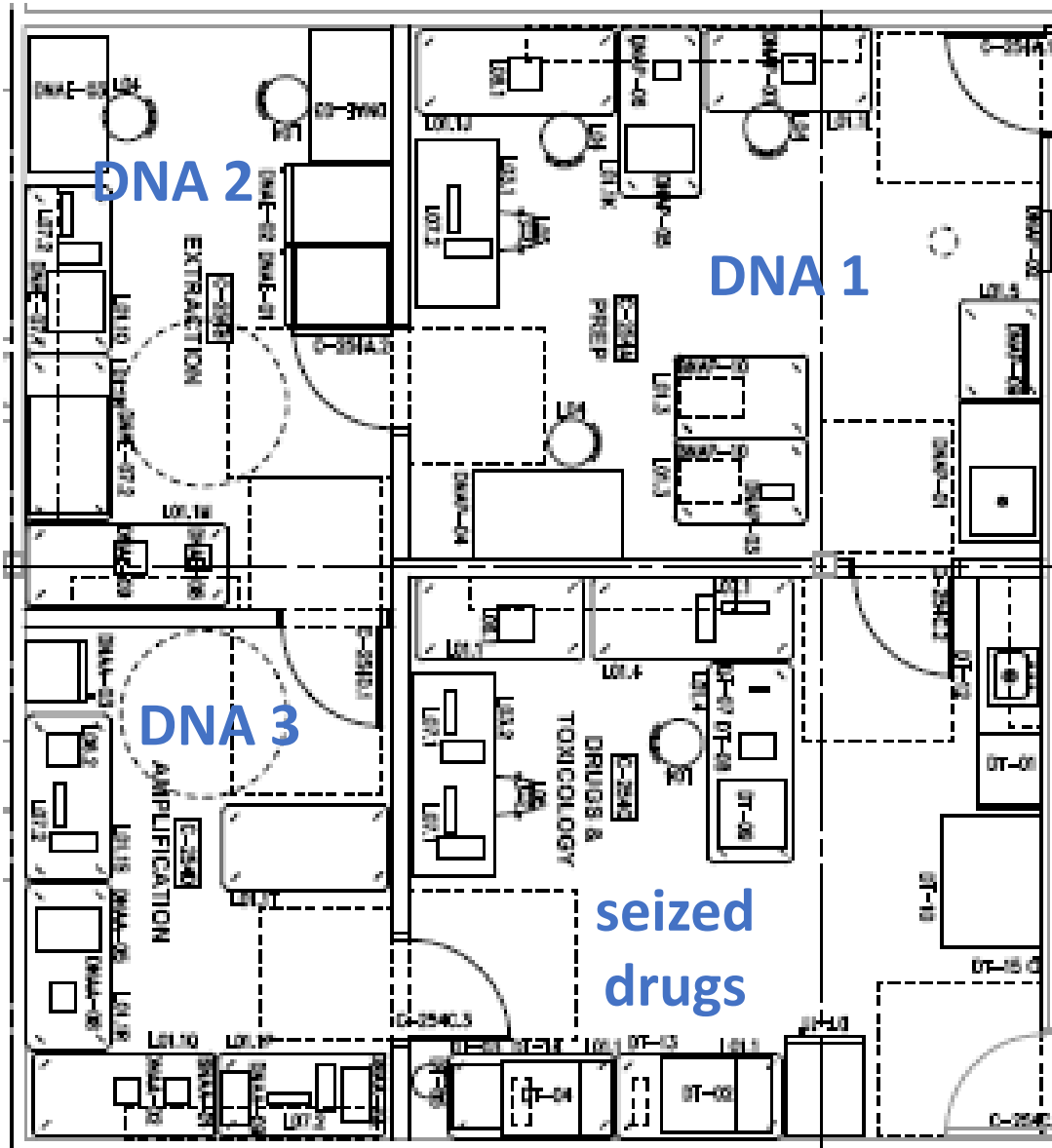
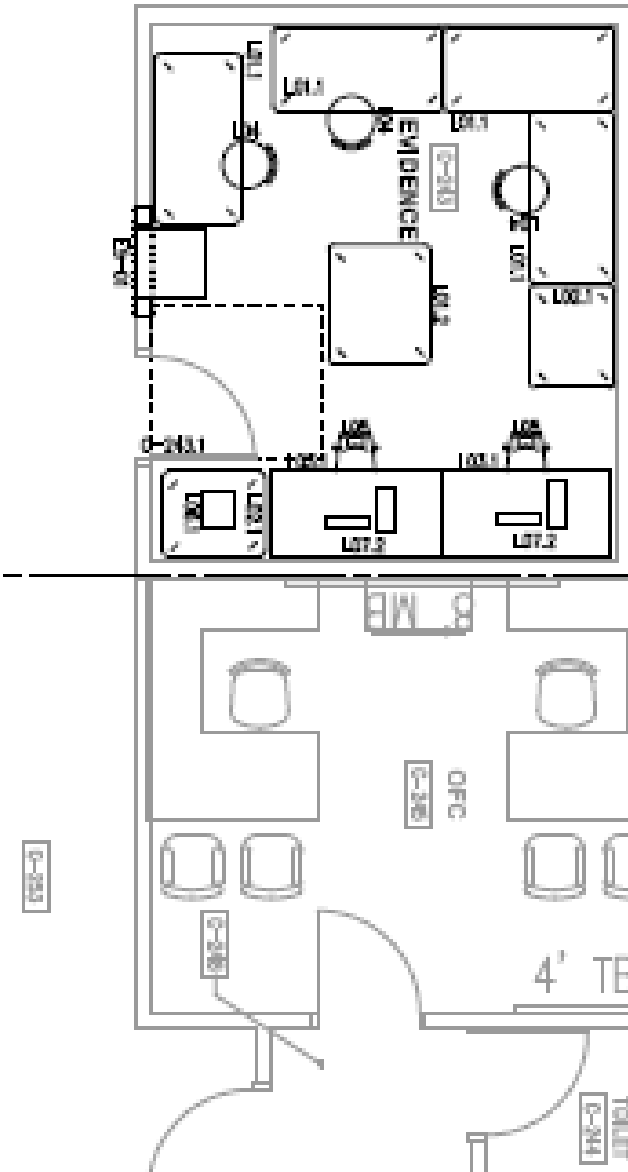
- ✓ Rapid generation of leads in criminal investigations
- ✓ Streamlining of obtaining information related to pending court cases
- ✓ Ability to determine cause and manner of death in a timely manner for grieving families

The Kane County Forensic Laboratory will provide cost-effective and time-effective scientific information in legal matters to benefit citizens of Kane County and the entire region.

Prior to Kane County Forensic Laboratory



Kane County Forensic Laboratory Blueprint



**office &
evidence receiving**

1,565 ft²

**toxicology
(coroner's office)**

Construction for Kane County Forensic Laboratory



Drug Chemistry

DNA



Completed Kane County Forensic Laboratory



Drug Chemistry

DNA



Funding

Opioid Settlement Fund

FY24 Community Project Funding from Congressman Foster - funded

FY26 Community Project Funding from Congressman Foster & Senator Durbin – promised, Congressional vote in September

FY27 Community Project Funding from Congressman Krishnamoorthi - proposed

\$963,000 from Congressman Foster is providing...

- ✓ Instruments to generate DNA profiles
property crimes, cold cases, violent crimes, identification of decedents



\$1,031,000 promised from Congressman Foster & Senator Durbin will provide...

- ✓ Laboratory Information Management System (LIMS)
software to streamline evidence submission and processing and to provide a secure record of chain-of-custody

The Chain of Custody: From Scene to Courtroom



\$1,031,000 promised from Congressman Foster & Senator Durbin will provide...

- ✓ National laboratory accreditation
validation of instruments and workflow

give confidence that protocols are followed and test results are reliable for use in criminal and civil proceedings



\$772,700 proposed from Congressman Krishnamoorthi will provide...

- ✓ Instruments to perform antemortem and postmortem toxicology testing



Current Status of DNA Profiling Capabilities

We are currently establishing a **Rapid DNA Investigative Leads Program.**



Validation



Local DNA
Database

Current Status of DNA Profiling Capabilities

We are currently establishing a **Conventional DNA Program for Court Purposes.**



Validation



CODIS

Current Status of Seized Drug Analysis Capabilities

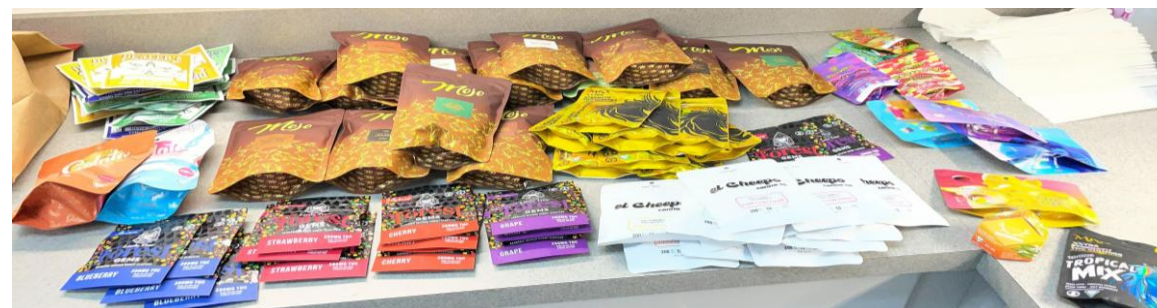
We are currently analyzing seized drugs.

Examples:

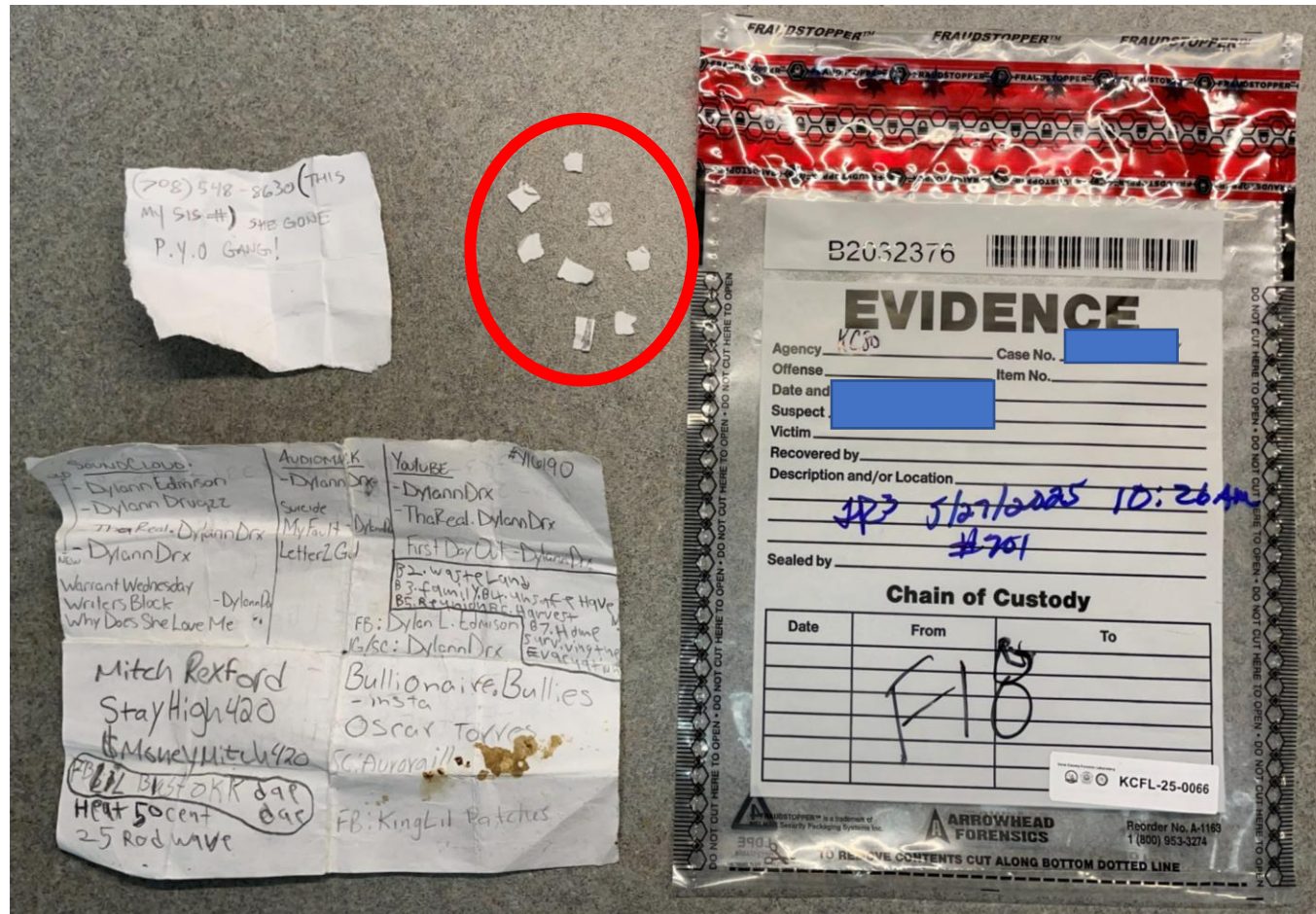
1. box truck on I-88
2. suspicious paper in jail
3. white powder in public restroom

Box Truck on I-88

KCSO Traffic stop on I-88 exposes large volume of drugs in vehicle
Laboratory analysis of one item within 1 hour while vehicle is still detained at traffic stop
Probable cause confirmed to seize vehicle and cargo
More than 2000 items analyzed after seizure



Suspicious paper found in Kane County Jail
Submitted/Analyzed/Results Reported within 60 minutes of seizure
Paper has been soaked in a synthetic hallucinogen smuggled into jail
Sucking/eating one small square is a single euphoric dose
Jail policy affecting seizures changed the very same day



White Powder in Public Restroom

Local law enforcement agency within Kane County (not KCSO)
Baggie of white powder found in a major retail store restroom
Concern for safety for the general public

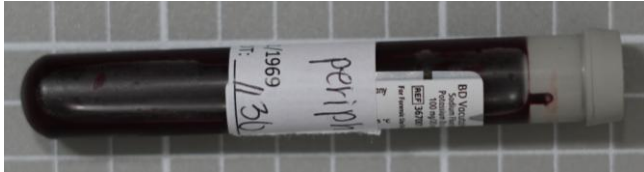
Illinois State Police Lab will not perform analysis - No suspect identified
Local law enforcement agency contacts KCFL
KCFL identified controlled substance and report issued to local law enforcement agency in less than 1 hour

No suspect came forward to claim this item from department store lost and found



Other rush samples submitted to KCFL to aid initial investigation

Blood alcohol rush samples for KCCO



Many open beverage containers during traffic stops



Charred fire debris collected in can
For suspected arson



Baked goods/cookies/cakes/oils/resin/wax for illicit cannabis



Future Needs

- ✓ Hiring of additional staff for volume of work and accountability
- ✓ Salaries for current and additional staff
- ✓ Additional instruments for performing postmortem toxicology testing
The Kane County Forensic Laboratory will be the only laboratory in IL that will provide comprehensive postmortem toxicology testing.
- ✓ Funds for updated instruments and annual service contracts to maintain instruments and software

Thank you to the Kane County Board for your support!

