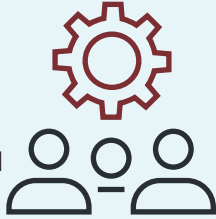


NEIC Menu of Services for Criminal Project Support

Initial Case Development

Lead Development and Consultation

- Field and Lab support
- Review documents
- Research and locate company regulatory and operation information and documents



- Participate in interviews
- Draft interview questions for technical aspects of case
- Draft grand jury subpoena questions

Form 9 Development

- Provide Scientific and regulatory consultation
- Review documents (i.e., analytical reports from outside laboratories, permits)
- Participate in interviews
- Draft grand jury subpoena questions
- Conduct regulatory evaluation
- Electronic monitoring data review (i.e., process operations information)

GENERAL

- Providing training – EIB, CID In-service, Webinars, Dangerous Goods shipping, sampling, regulations, and other technical topics, etc.
- Participating in CID Conference Calls/Meetings
- Participating in Staff Meetings
- Locating outside technical expertise support

Field Forensic Development

Sampling Strategy Development

- Sample Matrices: air, soil, water, industrial materials, asbestos
- Representative sampling under RCRA
- Statistical sampling strategy
- Composite sampling strategy
- Targeted sampling strategy

Develop QAPPs and HASPs

Provide regulatory expertise (Credentialed inspectors in: RCRA, CWA, SDWA, CAA, CAA 112r, EPCRA)

Serve as onsite Health and Safety Officer

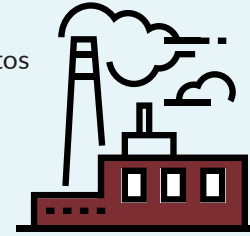
Provide chemists for field support

Conduct field measurement and sampling in support of consent searches and search warrants

- Field identification of unknown substances using FTIR/Raman
- Installation and retrieval of automatic samplers in sewers for probable cause development: pH and metals
- Water monitoring with multiparameter sondes
- Industrial discharges parameters: time, pH, temperature, water level or depth, conductivity, dissolved oxygen, turbidity, rhodamine, blue-green algae, chlorophyll, salinity
- Freshwater parameters: nitrate, ammonia, chloride
- Field screening for metal compounds using XRF
- Tracing of discharge pathways using dye studies
- Field identification of refrigerants (CFC/HCFC/HFC)
- Volatile emission detection using Forward Looking Infrared (FLIR) camera
- Remote water sensor monitoring platform (IMPRESS)

Shipping of samples to ensure compliance with regulatory and custody requirements

Report writing (Field and Lab activities)



LABORATORY FORENSIC SUPPORT

Evaluation of samples to determine compliance with RCRA, CWA, TSCA, FIFRA, CERCLA, and CAA

RCRA hazardous waste characteristic testing

Analysis of wastewater and environmental water samples for chemical content

Ozone depleting chemicals analysis (chlorofluoro and hydrofluorocarbons, CFC/HCFC/HFC)

Identification of unknown substances

Pesticide analysis

Review outside laboratory reports to determine if methodology is correct/help interpret data/etc.

Determine laboratory methods to meet data quality objectives

Develop analytical methods for unique samples or analytes

Sample evidence management and destruction



LITIGATION SUPPORT



Trial preparation

Testifying as fact witness

Trial exhibits (i.e., help produce, interpret defense exhibits, review)

Expert reports – regulatory, technical (chemistry/science/engineering), toxicology, and statistical

Expert witness testimony – regulatory, technical (chemistry/science/engineering), toxicology, and statistical

Expertise

CAA stationary and mobile sources, RCRA, CWA, SDWA, FIFRA, CAA 112(r)

Chemistry

Toxicology

Statistics