



**YOUR TRUSTED PARTNER FOR
ENVIRONMENTAL CONSULTING**



METRIC
ENVIRONMENTAL

Complex Environment. Creative Solutions.



Building A More Inclusive And Sustainable Future For All

Metric Environmental, LLC

Metric Environmental, LLC, headquartered in Indianapolis, is a DBE/MBE environmental consulting firm that serves clients in Indiana, Ohio, Kentucky, Pennsylvania, West Virginia, and throughout the Midwest. The term metric denotes “a set standard” of measurement against which things are compared and aligns with our vision for our business – a practice that sets the standard to which environmental consulting can be measured.

As a company, we value teamwork, integrity and excellence.

Metric is committed to assisting our clients in finding creative and defensible solutions to the complex environmental challenges of their businesses. By incorporating our technical expertise and experience, we work to serve our clients with a thoughtful, deliberate, knowledgeable commitment to the highest quality of project delivery needed. Our clients, therefore, are confident that their interests are carefully weighed in every decision and recommendation.

Our diverse staff has decades of professional experience providing a full range of environmental services. These services include Environmental Site Assessment and Remediation, NEPA documentation; Industrial Hygiene, Occupational Safety, Natural Resource/Ecological Management; Section 106/ Cultural Resources Management; Environmental Permitting; and Water Resources. Our personnel include licensed professional engineers, qualified professional historians, certified hazardous materials managers, archaeologists, wetland scientists, cultural resources specialists, environmental sustainability professionals, industrial hygiene and safety professionals.

As a company, we adhere to our Mission: “To ethically perform exemplary environmental consulting services that challenge our people, enhance our communities, and inspire those who work with us.” For our clients, this means we meet our commitments with integrity and a passion to get it right the first time.

DUNS: 079751792

CAGE: 7ETW4

NAICS: 541620 Environmental Consulting
562910 Environmental Remediation
541330 Environmental Engineering
541380 Lab Testing and Services
541990 All Other Science and Technology
541720 Research and Development
541690 Other Science and Technology Consulting

- 🌿 Reducing Risk
- 🌿 Maintaining Compliance
- 🌿 Environmental Footprint Reduction
- 🌿 Ensuring Health and Safety
- 🌿 Each and Every Project

Teamwork. Integrity. Excellence.

As a company, we adhere to our core values of Teamwork, Integrity, and Excellence (T.I.E.). These values, T.I.E., unify us as we seek to complete the business's mission. For our clients, these values mean we meet our commitments with unrivaled quality of service and consistent, unwavering dedication to diversity, stewardship, and the communities within which we live and exercise our craft. For our employees, these values are the ones for which they joined Metric, and they are the ones that we have all pledged to defend since they provide each of us the opportunity to pursue our careers and find purpose in our work. Metric commits to doing the right thing, even when no one is looking. As a team, we commit to being socially accountable to each other, our clients, the neighborhoods we live in and serve, and the global community. We achieve this by encouraging community belonging, quality of life, a diverse and inclusive work environment, reduction of environmental footprints, ethical performance, and mentorship of the next generation of scientists, geologists, and engineers.

“Never doubt that a small group of thoughtful, committed, citizens can change the world. Indeed, it is the only thing that ever has.”

- Margaret Mead, Anthropologist



Our Expertise

Through consistent, reliable excellence in service, Metric provides each client with creative solutions to their specific environmental challenges, starting with each project's end goal in mind.

ASSESSMENT + REMEDIATION

- ESAs (Phase I and II)
- Brownfield Redevelopment
- SPCC Planning
- Corrective Action Plans
- RCRA Closure
- Underground Storage Tanks Management
- Site Characterizations
- Wellhead Protection Planning
- Compliance Auditing
- Waste Management Consulting
- Remediation Work Plans and Implementation

CULTURAL RESOURCES

- Section 106 Compliance Consultation
- Section 4(f) Compliance Consultation
- Architectural Surveys
- National Register of Historic Places Applications
- Assessment of Effects
- Historical/Archival Research and Context Development
- Archaeological Investigations
- Cultural Resources Management Plans
- Memoranda of Agreement

INDUSTRIAL HYGIENE & OCCUPATIONAL SAFETY

- Asbestos Inspections, Project Designs & Management
- Industrial Hygiene monitoring & evaluation
- Thermal Imaging
- Lead and Mold Abatement Oversight
- Radon Assessments
- Building Demolition Hazards
- Air Monitoring (Indoor Air Quality/Ambient)
- Project Management
- Globally Harmonized System Design
- Noise Exposure Mapping
- Litigation Support Services

NATURAL RESOURCES

- Wildlife Habitat Assessments
- Clean Water Act Section 401/404 Permitting
- Invasive Plant Species Surveys
- Construction in a Flood-way Permitting
- Habitat Restoration Plans
- Qualitative Habitat Evaluation Index
- Isolated Wetlands Permitting
- Primary Headwater Index Assessments
- System Permitting
- Threatened and Endangered Species Surveys

NEPA COMPLIANCE

- Agency Early Coordination
- Red Flag Investigations
- Categorical Exclusions
- Environmental Assessments
- Environmental Impact Statements
- Environmental Justice Investigations
- Socioeconomic Impact Analysis
- Section 4(f) Analysis
- Air Quality Evaluations
- Noise Studies/Noise Barrier Evaluation

URBAN FORESTRY

- Assisting Ordinance Implementation and Evaluation
- Program Management Review and Implementation
- SOP Development for Permits
- Tree Preservation Plans
- Tree Mitigation Plans
- GIS Mapping
- GIS Inventory Management Plan
- Canopy Assessments
- Species Recommendations
- Grant Funding Evaluation and Application
- Community Revitalization
- Tree Risk Assessments

WATER RESOURCES

- Erosion and Sediment Control Inspections
- Employee Training
- Construction Stormwater General Permit Applications
- Stormwater Pollution Prevention Plan Development
- Stormwater Quality Control Plan Development
- Municipal Stormwater Permit Applications
- MS4 Program Development and Compliance
- Industrial Stormwater Sampling and Inspections



A Diverse and Local Partner

Metric has completed a broad array of environmental projects throughout the Midwest. Our strong environmental experience, successful approach to environmental tasks, and long-established relationships with local, state, and federal oversight agencies assure our clients of innovative, responsive, timely, and cost-effective solutions that fully address their project needs.

Differentiators

- 🌿 Full service environmental consulting solutions
- 🌿 Small firm agility with big firm expertise
- 🌿 Environmental, Industrial Hygiene and Safety experts
- 🌿 Interior and exterior environmental consulting

Metric At A Glance

➤ **10** Years In Business

➤ **\$6M** Average Annual Income

➤ **55+** Full-Time Staff

➤ **4** Offices

➤ Registered In **5** States
(IN, OH, KY, PA, WV)

➤ **53%** Female Staff

➤  **NMSDC** Minority Owned Business

➤ Affiliated With The Leading Quality Assurance Networks





ASSESSMENT + REMEDIATION

Identify and resolve
environmental risks with
confidence.



Through consistent, reliable excellence in service, Metric provides each client with creative solutions to complex environments, starting with each project's end goal in mind..

Metric has experience and expertise addressing environmental issues resulting from historical operations, current unforeseen releases or accidents as well as planning for future solutions on anticipated needs. Metric can assist clients with assessments, inspections, and remediation needs, including scope of work development for work plans, sampling of media, and development and implementation of remedial plans. Our staff of scientists, geologists, and engineers work to provide scientifically defensible alternatives and assessments of real or perceived environmental impairment. Metric will also help clients with interpretation of State and Federal regulations and provide guidance on best practices to meet the requirements. The goal of our expertise and services is to help limit your potential environmental liability, identify road blocks and solutions so your project can move forward quickly and safely.

SERVICES

- Phase I and II Environmental Site Assessments
- Site Characterizations
- Corrective Action Plans
- Brownfield Assessments and Redevelopment
- Blight Elimination Program Management
- Spill Prevention Control and Countermeasure (SPCC) Planning
- Underground Storage Tank Management
- Resource Conservation and Recovery Act (RCRA) Closure
- CERCLA Investigations and Remediation
- Hydrology and Geology Studies
- Industrial and Commercial Auditing
- Wellhead Protection Planning
- Waste Management Consulting
- Assessments for Building Renovation and Demolition
- Landfill Inspections
- Remediation Planning/Design
- Remediation Implementation
- Remediation Monitoring
- Waste and Wastewater Disposal Permitting

REPRESENTATIVE EXPERIENCE

Michiana Area Council of Governments (MACOG), IN: Environmental Consulting for assessing brownfield sites affected by petroleum and/or hazardous materials for the MACOG in Elkhart, Kosciusko, Marshall, and Saint Joseph Counties, Indiana.

Northern Indiana Commuter Transportation District (NICTD), IN: Hazardous and Regulated Materials Oversight for the Double Track Project on the South Shoreline passenger rail service from Gary to Michigan City, Indiana.

The City of Gary, IN: Post Closure Monitoring services associated with annual groundwater sampling and air quality monitoring reporting for the Closed Gary Sanitary Landfill located in Gary, Lake County, Indiana.

Manufacturing facility, IDEM State Cleanup Program, Indianapolis, IN: Metric has conducted Further Site Investigation (FSI) activities, chlorinated solvent contaminant plume delineation, remediation design, remediation implementation following plan approval, and quarterly groundwater monitoring at the site.



CULTURAL RESOURCES

Preserving The Past While
Planning For The Future.



Through consistent, reliable excellence in service, Metric provides each client with creative solutions to complex environments, starting with each project's end goal in mind..

Metric archaeologists and historic preservation experts specialize in identifying, surveying, researching, and evaluating all types of cultural resources. Metric's Qualified Professional archaeologists and architectural historians have provided comprehensive National Register of Historic Places' eligibility assessments and evaluations for over 300 cultural resources management projects across the Midwest. Our projects have ranged in scope from assisting communities and non-profit organizations with documenting historic properties and creating architectural design guidelines, to conducting Section 106 compliance reviews for large-scale undertakings that involve multiple state and federal agencies. Our team offers extensive cultural resources management knowledge and experience to help our clients navigate their projects through the complex process of regulatory compliance. We abide by professional standards and methodology, and our experts maintain a Qualified Professional status with the State Historic Preservation Offices in Indiana, Illinois, Kentucky, Michigan, Ohio, Pennsylvania, and West Virginia. We are also prequalified to perform cultural resources consulting work with the Indiana Department of Transportation, Kentucky Transportation Cabinet, Pennsylvania Department of Transportation, and Ohio Department of Transportation.

SERVICES

- Section 106 Compliance Consultation
- Identification of Historic Properties
- Assessment of Project Effects
- Phase I Archaeological Surveys, Phase II Site Evaluations and Phase III Data Recovery/Mitigations
- Agency and Consulting Party Coordination
- Precontact and Historic Context Development
- Urban Archaeology
- Archaeological Monitoring
- Prehistoric and Historic Artifact Analysis and Curation
- History/Architecture Surveys and Architectural Investigations
- National Register of Historic Places (NRHP) Eligibility Nominations and Determinations
- Archival Research, Due Diligence Projects
- Preparation of Memorandum of Understanding/Memorandum of Agreement Documents
- Cultural Resources Management Plans
- Section 4(f) Alternatives Analysis for Historic Properties
- Cemetery Development Plans
- Historic Bridge and Building Photo Documentation, HABS/HAER services
- Creation of Cultural Heritage Tourism and Education Materials
- Local Preservation Planning and Design Assistance
- Development of Design Guidelines
- Development of Interpretive Signage
- Predictive Modeling
- Native American Consultation Support

REPRESENTATIVE EXPERIENCE

KYTC, KY 205 Road Improvement Corridor from east of KY 1812 to west of Peggs Fork Road, Breathitt County, KY (KYTC Item No. 10-375).

INDOT, Rest Area Modernization Projects, Multiple Counties, IN: I-65 NB/SB Kankakee Des. No. 0800272; I-65 NB/SB Lebanon Des. No. 1902651; I-70 EB Clear Creek Des. No. 1902855; I-64 EB Black River Des. No. 2902652; I-65 NB/SB Wolcott Des. No. 1902651; I-65 NB/SB Taylorsville Des. No. 2000505; I-64 EB/WB Nancy Hanks Des. No. 1902667; and I-70 WB Centerville Des. No. 2000500.

FAA, Northern Indiana Commuter Transportation District South Shore Line Airport Realignment, St. Joseph County, IN.

FRA/USACE, Chicago River Wall Improvement and Fender Replacement Projects, Cook County, IL.



INDUSTRIAL HYGIENE AND OCCUPATIONAL SAFETY

Ensuring a Compliant and Hazard-Free Interior and Exterior Environment



Our Industrial Hygiene services provide expert guidance on environmental health and safety issues, including emergency response planning, occupational safety inspections, hazard communication, and occupational safety and health. We provide inspection, oversight, Environmental Health and Safety (EHS) and design services to ensure safe and healthy working conditions by identifying and mitigating workplace hazards, including hazardous building materials, noise, and air quality issues. Industrial Hygiene services are critical for building demolition and remediation project success. Metric has vast and unique industrial hygiene project experience ranging from small structures to large industrial and pharmaceutical facilities for public and private clients. Our portfolio includes multiple large project environmental evaluations, remediation design, and demolition management.

SERVICES

- Industrial Hygiene Monitoring and Evaluating exposure to chemical and physical agents
- Asbestos Inspections, project designs, management plans, quantification, and building inspections
- Thermal Imaging
- Litigation Support Services
- Accident Investigations
- Vapor Intrusion Evaluation and Mitigation Design
- Indoor Air Quality Investigations
- Lead and Mold Abatement Oversight
- Building Demolition Hazardous Materials Survey
- Safety Program, Audits, and Implementation
- OSHA Compliance Programs and Audits
- Expert Witness and Litigation Support
- Construction Safety Oversight
- Site and Project-Specific Health and Safety Planning
- Physical Hazard and PPE Assessments
- Health and Hazard Monitoring
- Site-Specific Health and Safety Training
- Noise Exposure and Hearing Conservation Program
- Atmospheric Testing/Fence-line Monitoring
- Regulatory Compliance Training
- Risk Management Plans (RMPs)
- Process Hazard Analyses (PHA)
- Facility Emergency Response Plans Development and Implementation
- Lead Hazard Evaluations, Inspections, and Risk Assessments

REPRESENTATIVE EXPERIENCE

Rockwell International Plant: Certified Industrial Hygienist for the remediation of PCB contamination including providing technical guidance and air monitoring for PCB contamination in Russellville, Kentucky.

GE Appliances: Industrial hygiene, indoor air quality, and hazardous materials services in industrial and office settings for over 20 years at locations across the U.S.

Jefferson County Public Schools: Indoor Air Quality Surveys, Design, and Project Management at many schools. Louisville, KY

The Cincinnati Metropolitan Sewer District (MSD): Asbestos and Lead Based Paint Survey at the Little Miami Wastewater Treatment Plant undergoing a flow meter renewal project in Cincinnati, Ohio.

US Veterans Health Administration: Asbestos and Lead Based Paint Inspection at the John J Pershing VA Medical Center in Poplar Bluffs, Missouri. Robley Rex VA Medical Center, Louisville, KY. Soursley and Bowling VA Medical Centers, Lexington, KY.

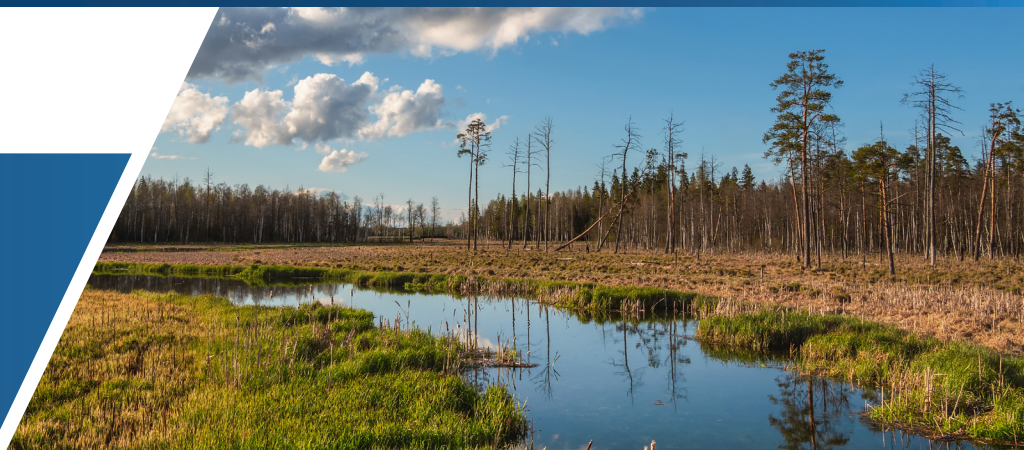
Environmental Health and Safety and Remediation Oversight: Oversight at the newly constructed Indianapolis Marion County Community Justice Center in Indianapolis, Indiana.

City of Gary, Indiana, Office of Environment and Sustainability: Former Methodist Church built in 1925, conducted inspections and assessments for asbestos and hazardous materials including universal wastes, and Phase I/II environmental site assessments.



NATURAL RESOURCES

**Balancing Conservation
and Development for a
Sustainable Future.**



Metric's Natural Resources Team has extensive project experience evaluating sites for potential environmental impacts to wetlands, waterways, and wildlife. With a diverse natural resources staff with backgrounds in wetland and stream assessment and mitigation, wildlife management, and natural habitat mitigation and management, we assist our clients with understanding and complying with State and Federal Clean Water Act regulations concerning impacts to Waters of the U.S./Waters of the State and in the protection of other precious natural resources. We specialize in all areas of natural resource management, including planning, permitting and mitigation. Our clients include various Departments of Transportation including INDOT, KYTC, PennDOT and ODOT, as well as local governments, transportation organizations, and private enterprises.

Construction projects often impact the natural environment and require compliance with standards set by the U.S. Army Corps of Engineers (USACE), U.S. Environmental Protection Agency (USEPA), U.S. Fish and Wildlife Service (USFWS), and state and local agencies that oversee impacts to natural resources and waterways. Recognizing and addressing these challenges effectively and minimizing impacts on natural resources requires expertise in ecology, wildlife, policy and regulation. Metric provides comprehensive strategies for assessing, reporting, permitting, mitigating, and providing GIS services for impacts to natural resources. We provide our clients with creative solutions for protecting and enhancing our natural resources through our experienced professional staff and active communication with regulatory agencies during all delivery phases.

SERVICES

- Wetland Delineations and Waters of the U.S. Determination Reporting
- GIS Analyses
- Clean Water Act Section 401/404 Permitting
- Indiana DNR Construction in a Floodway Permitting
- State Regulated/Isolated Wetlands Permitting
- Wetland, Stream, and Floodway Habitat Mitigation Plans
- Urban Forestry, Tree Surveys and Tree Risk Assessments
- Wetland, Stream, and Habitat Mitigation Monitoring
- Flora Permitting and Mitigation Plans
- Qualitative Habitat Evaluation Index (QHEI) Stream Assessments
- Primary Headwater Habitat Evaluation Index (HHEI) Stream Assessments
- Wildlife Habitat Assessments
- Invasive Plant Species Surveys
- Habitat Restoration Plans
- Rare, Threatened, and Endangered Species Surveys
- Bat Mist Netting and Acoustic Surveys
- Radio Telemetry Services
- Mine/Cave Portal Surveys
- Biological Assessments
- Federal & State Agency Coordination

REPRESENTATIVE EXPERIENCE

The Indianapolis Airport Authority (IAA)/Town of Plainfield, IN: Environmental Documentation for extending the Airtech Parkway to improve connectivity between Plainfield and IND in Indianapolis and Plainfield, Indiana. Currently providing Section 401/404 permitting, IDNR Construction in a Floodway Permitting, and Construction Stormwater General Permitting services.

The Indiana Department of Transportation (INDOT), Bloomington to Martinsville IN: Multi-year Wetland Mitigation Monitoring and Reporting for Sections 5 and 6 of the I-69 Finish Line Project.

NICTD Double Track Railway Expansion, Gary to Michigan City, IN: Wetland Delineation and Stream Habitat Assessments of 25 miles of railroad corridor expansion from a single track to double track from milepost 33.3 west of Michigan Blvd in Michigan City, IN to milepost 58.4 west of Tennessee St in Gary, Indiana.

The Commonwealth of Kentucky, KY: Bat Habitat Assessment for the proposed landscape project at the Kentucky State Capitol Building in Frankfort, Franklin County, Kentucky.

Confidential Solar Development Client, IN: Bat mist netting and radio telemetry services, and subsequent USFWS coordination, in support of a solar array project in southwestern Indiana.

The Indiana Department of Transportation (INDOT), IN: Multi-year baseline statewide pollinator habitat surveys in compliance with the Nationwide Monarch Butterfly Candidate Conservation Agreement with Assurances (CCAA) through the Right-of-Way as Habitat Working Group, Crawfordsville and Greenfield Districts, Indiana.



NEPA COMPLIANCE

Streamlining Regulatory Compliance for Successful Project Outcomes.



The Metric National Environmental Policy Act (NEPA) staff has experience in all aspects of the NEPA process as outlined by various federal and state agencies. The Metric Team has completed various NEPA documents that adhere to the guidelines of the NEPA procedures specified by the Federal Highway Administration, Federal Aviation Administration, U.S. Housing and Urban Development, Federal Transit Administration, U.S. Army Corps of Engineers, and numerous other federal agencies across the Midwest.

Our years of experience have provided us with flexible strategies to engage our clients early in the project design process, to provide expert guidance on navigating what is often the critical path early in a project's timeline. Metric works as a partner to our clients, to develop and implement effective NEPA compliance strategies.

SERVICES

- Agency Early Coordination
- Red Flag Investigations
- Limited Red Flag Investigations
- Phase I Environmental Site Assessments
- Phase II Limited Subsurface Investigations
- Public Involvement
- Streams, Rivers, Watercourses and Other Jurisdictional Features Investigations
- Wetland Determinations / Delineations
- Stream and Wetland Mitigation
- Section 106 - Cultural Resources
- Section 4(f) and 6(f) Coordination
- Environmental Justice Analysis
- Air Quality Evaluations
- Karst Analysis
- Noise Analysis
- Evaluation of Noise Barriers
- Permitting
- Categorical Exclusion Documentation
- Environmental Assessment Documentation
- Finding Of No Significant Impact (FONSI)

REPRESENTATIVE EXPERIENCE

INDOT Kankakee Welcome Center and Rest Area Reconstruction along I-65, Jasper County, Indiana. Metric prepared an Additional Information (AI) environmental document to the previously approved Categorical Exclusion (CE-1) document, prepared by others, under the same Des. No. 0800272. Project elements included installation of nearly 10 miles of new sewer and water lines to service both the northbound (NB) and southbound (SB) facilities. The NB rest area was converted to a truck-only facility, while the SB facility was reconstructed as a new signature Welcome Center. The new Welcome Center includes 78 car and 150 semi-truck parking spaces, sidewalks, new rest area building, toilet outbuildings and permanent lighting etc. This AI included Agency Early Coordination, Red Flag Investigation, Full Section 106, Waters Determination/Delineation, and IPaC. Metric worked closely with the designer and INDOT staff to meet the aggressive schedule for this project, on time and under budget.

Floyd County Bridge 51/Blackiston Mill Road Bridge, Floyd and Clark Counties, Indiana; After analysis of multiple alternatives, the preferred alternative realigns Blackiston Mill Rd., shifting the roadway to the north and curving to the southeast as it approaches a new bridge over Silver Creek. Three residential structures will be removed, with the relocation of 7 family groups, as a result of the project. Metric assisted INDOT, FHWA and Floyd County by completing Section 106 documentation, threatened and endangered species investigations on the buildings and bridge, environmental justice investigations, waters delineations, public involvement, construction in a floodplain permit, and Section 401/404 permits. Due to the suspected presence of an EJ community, the environmental document was elevated from a Categorical Exclusion to an Environmental Assessment with a Finding of No Significant Impact.

KY 205 Improvements Project, Breathitt County, KY; The Kentucky Transportation Cabinet (KYTC) proposed improvements/reconstruction to KY 205 from East of KY 1812 to West of Peggs Fork Road, in Breathitt County, Kentucky (KY) north of the unincorporated community of Vancleve, for a length of 2.15 miles. The KY 205 corridor serves as a connection from KY 15 to the Mountain Parkway and US 460 corridors. The majority of the KY 205 corridor has been upgraded between KY 15 and US 460, with this project proposed as the final section to be upgraded within the overall corridor. Sixteen residential structures are to be removed as part of the roadway realignment and improvement project. Metric worked with KYTC by completing archaeology and Historic Resource investigations, environmental justice investigations and interviews, Phase I hazardous waste investigations, documentation of a family cemetery, and completing a Level 3 KYTC Categorical Exclusion document.



URBAN FORESTRY

Proactively managing for long-term benefits to the forest and community.



Through consistent, reliable excellence in service, Metric provides each client with creative solutions to complex environments, starting with each project's end goal in mind.

Metric Environmental uses a team of certified arborists, biologists, foresters, and GIS specialists to work alongside local communities to tailor traditional urban forest services, ensuring cost-effectiveness while maximizing the benefits of the urban forest and the community. With an in-depth understanding of local, state, and federal environmental regulations, Metric guides various agencies and engineering clients through the permitting process for tree impacts, ensuring compliance and project efficiency.

We tailor our approach to fit each client's specific need and vision. Whether you are a municipality managing a vast network of street trees or a community group nurturing a local park, we provide expertise in helping you unlock the full benefits of your urban forest.

SERVICES

- Assisting ordinance implementation and evaluation
- Program Management Review and implementation
- SOP development for permits
- Tree Preservation Plans
- Tree Mitigation Plans
- GIS Mapping
- GIS Inventory Management Plan
- Canopy Assessments
- Species Recommendations
- Grant funding evaluation and application (IRA - inflation reduction act)
- Planting design
- Environmental Justice
- Community Revitalization
- Education and awareness
- Tree Risk Assessments
- Arbor Day Tree City Growth Award Submission

REPRESENTATIVE EXPERIENCE

City of Indianapolis Flora Permit and Mitigation Planting Plan: Inventoried 401 trees. Designed mitigation prior to the expansion of the Eagle Creek Greenway Trail. Replanted 89 trees or the equivalent of 142.6 basal area to satisfy the Indianapolis BNS flora permit requirements.

City of Indianapolis Department of Public Works (DPW) Urban Forestry Consulting: Provided on-call guidance, developed a Flora Permit Specification Manual and intake form.

City of Indianapolis George Washington Park Flora Permit: Inventoried 367 trees. Designed mitigation in conjunction with IDNR flood-way habitat that created and enhanced 1.956 acres of riparian habitat.



WATER RESOURCES

**Innovative Solutions for
Stormwater and Wastewater
Management.**



The Metric Water Resources team successfully manages diverse stormwater and wastewater management projects including construction, industrial, and municipal services. With stormwater and wastewater regulations across the country changing, obtaining permits, and implementing successful projects will be even more difficult. Our expertise in implementing site-specific stormwater and wastewater management plans can help you meet the demands of the changing regulatory landscape. Our Team has developed a successful approach to environmental tasks and leverage long-established relationships with local, state and federal oversight agencies to ensure our clients receive innovative, responsive, timely, and cost-effective solutions that fully address project needs. We provide expert guidance on construction stormwater and wastewater services.

SERVICES

Construction Stormwater Services:

- Local, State, and Federal Stormwater Permits
- Stormwater Pollution Prevention Plans (SWP3)
- Stormwater Quality Control Plans
- Erosion and Sediment Control Inspections
- On-site environmental compliance support for National Environmental Policy Act Commitments, 401/404 permits, and Construction In a Floodway permits

Industrial Stormwater and Wastewater Services:

- SWP3
- Annual Reporting and Stormwater Sampling
- Program Sampling Management and Outfall Monitoring
- Annual Employee Training

Municipal Separate Storm Sewer System (MS4) Services:

- Stormwater Quality Management Plans (SWQCP)
- Water Quality Characterization Reports (WQCR)
- Minimum Control Measure (MCM) Documentation and Implementation Support:
 - Public Education and Outreach
 - Illicit Discharge Detection and Elimination (IDDE)
 - Construction Site Stormwater Run-off
 - Post-Construction Stormwater Run-off
 - Municipal Operations Pollution Prevention and Good Housekeeping

REPRESENTATIVE EXPERIENCE

City of Gary, IN: Provided support services for the update of the City Ordinance and technical standards manual for compliance with the new IDEM MS4 General Permit as well as updates to the Water Quality Characterization Report and Stormwater Quality Management Plan.

Provision of guidance and recommendations to design clients for development of SWP3. Delivery and implementation of Stormwater Permits and SWP3 documentation.

Environmental oversight of construction projects for compliance with Construction Stormwater, Section 401/404, NEPA commitments, and Floodway permit requirements

INDOT/KYTC, IN/KY: Environmental Consulting for the Design and Construction elements of the bi-state I-64 Sherman Minton Corridor Project in Louisville, Kentucky, and New Albany, Indiana.

City of Oxford, OH: Stormwater Consulting to assist in fulfilling the requirements of the Ohio EPA NPDES Construction Stormwater Permit and ODOT erosion and sediment control standards for the High Street and Pedestrian Safety Improvements Project in Butler County, Ohio.

INDOT, IN: Stormwater Quality Control Plan Development for various projects across Indiana. Slide Repairs along State Road 262, Ohio County, Indiana, and State Road 1 in Dearborn County, Indiana.

The Louisville Metropolitan Sewer District (MSD), KY: Baseline Water Quality Assessment for multiple streams receiving outfall discharge from water treatment facilities in Bullitt County, Kentucky.

Leadership Team



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Senior Engineer
President



Luella Beth Hillen
Director of NEPA Services
Principal



Jodi Banton
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Paul Melillo, MS, CHMM
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