

# Guide to Collaborating with the RTI STREAMS II Team



RTI International has built a team that brings to the U.S. Environmental Protection Agency the essential building blocks for a successful STREAMS II program: experience, excellence, and best practices. From bench-scale through field-scale research and tool development, our team is prepared to respond with knowledgeable, efficient, high-quality solutions.

## The RTI Team—An Unparalleled Combination of Environmental and Research Expertise

The RTI Team is highly qualified to support EPA's environmental mission, combining superior personnel with demonstrated experience and world-class facilities. Our team consists of the following leaders in research, technology, and environmental issues: RTI International, CDM Smith, Gulf Coast Hazardous Substance Research Center, Oneida Total Integrated Enterprises, Innovative Waste Consulting Services, ARCADIS, Innovar, Environmental Quality Management, TTL, and Porter Scientific.

We have the capacity to respond to your research needs in all the work areas targeted in the STREAMS II program, including proof-of-concept and lab- and bench-scale experiments; treatability studies and pilot-scale investigations; methods, tools, and technologies; and technical and field support. Our technical capabilities are proficient across a range of research areas, including those most significant to STREAMS II: contaminated sediment and soils, waste management, endocrine-disrupting compounds, confined animal feedlot operations, biosolids and wastewater treatment, ecosystem restoration, watershed stressors, sustainable brownfields revitalization, sustainability, groundwater, drinking water, emerging wastes, and mine remediation.

"The performance of RTI has been excellent...they have proven to be a wonderful collaborator [with] a wealth of knowledge."

"The products and services that we have received from RTI have been excellent. Their scientific expertise, in addition to their experience dealing with the myriad of vendors/subcontractors, has made the requirement run very smoothly."

From EPA Standard Contractor Performance Report for STREAMS (1/15/2010)

## Providing Real-World Solutions through Applied Research and Technology

The RTI Team is well-qualified to formulate innovative, transdisciplinary, and responsive solutions. We will engage in applied research and development that effectively meets real-world needs, while remaining alert to change and sensitive to market forces. Ours is a strong team, uniquely positioned to combine applied research with world-class business management processes. The research and support provided by the RTI Team over the course of this program will provide NRMRL, other ORD laboratories, and EPA program offices with the knowledge and technical support they need to make credible, scientifically based decisions.



### A Commitment to Scientific Excellence

The RTI Team offers our clients sound research, expert technical and management personnel, and the confidence that comes when working with a team grounded in its commitment to scientific excellence.

- Credibility of science:** We maintain an unwavering commitment to conducting credible science that sets the standard for professional excellence and can withstand the rigorous scientific peer review vital for decision making.
- Comprehensive research and technical capabilities:** We offer comprehensive research and technical capabilities that cover the entire range of research areas targeted under the STREAMS II program.
- Best management practices:** We operate within a research framework anchored in best management practices that will ensure quality, timeliness, and cost-efficiency.
- Responsive business culture:** We are well-positioned to create customized project teams tailored to meet specific needs, with access to a broad research network that can adapt and respond to any emerging issues that may arise.

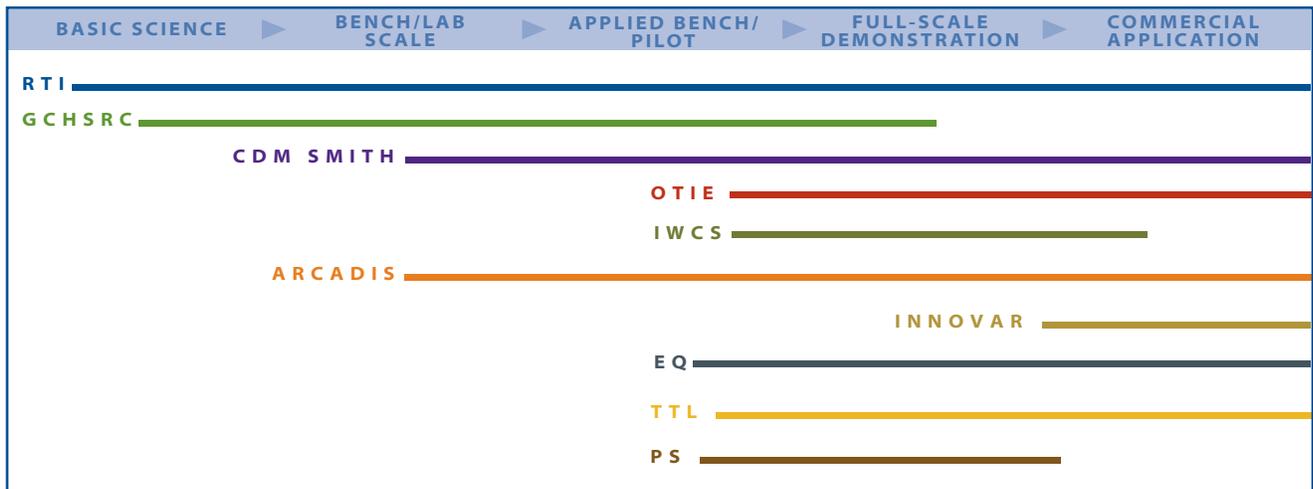
- Understanding of EPA's needs:** Gained through our long history of providing technical and research support to EPA, we have a thorough understanding of the Agency's technical and research programs, organizational structure, and contract operations.

### The RTI STREAMS Team



RTI International is oriented to meet our clients' needs by providing a multidisciplinary

team of expert engineers, scientists, and economists to address real-world environmental problems through high-quality research and technical services. Our client-focused approach and extensive experience working with academia and engineering firms enable us to operate successfully within a team environment. We have extensive experience managing multiyear, multitask contracts for ORD, including the STREAMS I contract, other EPA offices, and other federal agencies. Our capabilities encompass all types of research and associated research areas included in STREAMS II. RTI invests to innovate and grow our existing capabilities by training our over 2,800 staff, recruiting new technical talent, and investing in new facilities and technologies that enable staff to work faster and smarter, positioning them as leaders in current and emerging environmental research areas. Our comprehensive, in-house laboratory, testing, computer, and support facilities have contributed to the award of more than 150 patents to RTI.





**CDM Smith** provides lasting integrated solutions in water, environment, transportation, energy, and facilities to government and private clients worldwide. In 150 offices around the world, CDM Smith employs 5,500 staff, including experts in water resource modeling, infrastructure design, utility management, and hazardous waste remediation. CDM Smith helps clients to develop sustainable solutions for drinking water and sanitary infrastructure, contaminated sediment remediation, brownfield cleanup and reuse, groundwater management, ecosystem restoration, and abandoned mine site restoration. In 2009, CDM Smith won the ACEC Grand Conceptor Award (top prize) for planning, design, and construction of the revolutionary groundwater replenishment system in Orange County, California. In 2010, CDM Smith won the AAEE Superior Achievement Award for inventing and demonstrating Gaseous Electron Donor Injection Technology for treatment of perchlorate contamination in soil, the first time a research project has earned AAEE's highest honor. Finally, CDM Smith brings a 30-year record of outstanding service as a prime contractor to the EPA.



**The Gulf Coast Hazardous Substance Research Center**

**Center (GCHSRC)** is a consortium of nine research universities from Gulf Coast states: Texas A&M University, University of Texas, Rice University, University of Houston, Lamar University, Louisiana State University, Mississippi State University, University of Alabama, and University of Central Florida. GCHSRC is nationally recognized as one of the premier university-based environmental research centers conducting bench-, pilot-, and full-scale research. Major areas of technology research include biological remediation, soils and sludge treatment, nanomaterials, hazardous substance monitoring and detection, pollution prevention and modeling, and risk assessment. GCHSRC projects have received many awards, including the Presidential Green Chemistry Challenge Award and NASA's Gold Quality Dollar Award.



**Oneida Total Integrated Enterprises, LLC (OTIE)** is a Native American, tribally

owned, Small Business Administration-certified 8(a) small disadvantaged business providing environmental science, and engineering support to federal agencies. OTIE technical staff includes earth scientists;

geologists; hydrogeologists; chemists; biologists; ecologists; statisticians; civil, chemical, environmental, geotechnical, and wastewater treatment engineers; geographic information systems experts; computer-aided design technicians; and information technology specialists. In 14 years of continuous support for EPA ORD, OTIE has performed many environmental studies, including ecological and human health risk assessment, regional vulnerability assessment, invasive species modeling, dioxin bioaccumulation guidance, watershed analysis, and stressor identification in impaired streams.



**Innovative Waste Consulting Services, LLC (IWCS)** is a small business founded in

2006. IWCS was developed out of a university research environment and provides consulting, research, and engineering services on issues pertaining to landfills and surface impoundments, waste treatment, recycling, beneficial use, and environmental risks from the management of emerging municipal, industrial, and utility wastes. IWCS has successfully completed a variety of projects for EPA, including developing design guidelines for bioreactor landfill technology, evaluating geotechnical considerations for phosphogypsum stack systems, and assessing waste management contaminant transport models. IWCS also investigates issues associated with construction and demolition debris wastes, including landfill disposal risks (characterizing air emissions and other potential environmental releases) and characterizing risks and benefits from asphalt shingles recycling. IWCS has completed more than 300 projects since its inception providing expertise on critical national and international solid waste and environmental issues.



**ARCADIS** is an international

company and leading supplier of consulting, engineering, and project management services for infrastructure, environment, and buildings. ARCADIS is focused on providing added-value solutions to its clients addressing environmental, transportation, energy, homeland security, solid waste, urban development, mine remediation, water, waste water, facility design, operation, and management needs. For more than 30 years, ARCADIS has provided laboratory-, pilot-, and field-scale environmental technology development, demonstration, evaluation, and transfer support to NRMRL and other federal government research organizations.



**Environmental Quality Management, Inc. (EQ)** possesses in-depth research and testing

capabilities and extensive experience in real-world field technology. EQ has gained this experience through its Field Evaluation and Technical Support and Innovative Technology Evaluation Program contracts with EPA and as a subcontractor to RTI on STREAMS I. EQ has a 30-year history of working with EPA ORD, EPA program offices, and all 10 EPA regions. EQ has offices conveniently located in Cincinnati and offers an excellent track record of EPA support, and experience in technology evaluation.



**Innovar Environmental, Inc. (Innovar)** is an SBA

certified 8(a), SDB woman-owned business, HUBZone company located in Englewood, CO, with additional offices in Tulsa, OK, and Colorado Springs. Innovar provides a wide range of services, including environmental consulting (compliance, conservations, planning, and LEED certification), sustainability program development, construction services (asbestos, lead, and mold abatement), and green event management and training.



**Porter Scientific, Inc. (Porter)** is a Small Business Administration-

certified 8(a), SDB Native American Woman-Owned Business, HUBZone company that provides environmental consulting and professional services to federal, state, and local agency clients, including EPA. Porter provides professional services in the areas of water, sewer, and solid waste project preconstruction planning, information technology, technical and environmental consulting, brownfields redevelopment, and industrial water treatment laboratory services facility support. In 2007, Porter received the UIDA Business Services Indian Business of the Year Award.



**TTL Associates, Inc. (TTL)**

is a service-disabled, veteran-owned small business with offices in Ohio and Michigan. TTL's staff includes engineers, geologists, environmental scientists, laboratory technicians, construction managers, drillers, field engineering technicians, industrial hygienists, asbestos/lead/mold specialists, and draftspeople. TTL is an experienced EPA contractor, adding expertise in site characterizations and field support capabilities, including drilling and other geotechnical services and asbestos laboratory analysis.

The RTI Team has the high-quality research personnel and facilities necessary to respond to any emerging environmental issue identified as a priority.

PWS Area	RTI	CDM Smith	GCHSRC	OTIE	ARCADIS	EQ	IWCS	Innovar	Porter	TTL
<b>Work Area</b>										
Proof-of-Concept, Lab-, and Bench-Scale Experiments	●	●	●	●	●	●	●			
Treatability Studies and Pilot-Scale Investigations	●	●	●	●	●	●	●			●
Field Support	●	●	●	●	●	●	●	●	●	●
Methods/Tools/Technologies	●	●	●	●	●	●	●	●		●
Technical Support	●	●	●	●	●	●	●	●	●	●
<b>Research Area</b>										
Contaminated Sediment and Soils	●	●	●	●	●	●	●	●	●	●
Waste Management	●	●	●	●	●	●	●	●	●	●
Endocrine-Disrupting Compounds	●		●	●	●					
Confined Animal Feedlot Operations	●		●		●					
Biosolids and Wastewater Treatment	●	●	●	●	●	●	●	●	●	
Ecosystem Restoration	●	●	●	●	●	●	●	●	●	●
Watershed Stressors	●	●	●	●	●			●		
Sustainable Brownfields Revitalization	●	●	●	●	●	●		●	●	●
Sustainability	●	●	●	●	●		●	●		●
Groundwater	●	●	●	●	●	●	●	●	●	●
Drinking Water	●	●	●	●	●	●	●	●	●	●
Emerging Wastes	●		●		●		●			
Mine Remediation		●	●	●	●			●		

**More Information**

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RTI International is one of the world's leading research institutes, dedicated to improving the human condition by turning knowledge into practice. Our staff of more than 2,800 provides research and technical services to governments and businesses in more than 40 countries in the areas of health and pharmaceuticals, education and training, surveys and statistics, advanced technology, international development, economic and social policy, energy and the environment, and laboratory testing and chemical analysis. For more information, visit [www.rti.org](http://www.rti.org).

RTI International is a trade name of Research Triangle Institute.

