Qualification Statement Submittal Form for

Regulatory Dam Inspection Services and Other Dam Safety Related Engineering Services

Please save this document locally, fill in all applicable fields, and attach to your submittal e-mail.

A. Company	Contact Information:				-		
Company Name:	GHD Inc						
Street Address:	100 Roscommon Drive Suite 301	City:	Middletow	'n			
		State:	CT Zi	ip Code:	06457	Phone:	860 316 2400
		E-Mail:	bethann.sn	nith@gh	d.com	***	
Web Address:	www.ghd.com	Primar	y Contact: Be	eth Ann S	Smith		
	egistered to practice as a Professional YES poration in the State of Connecticut?		stration#:00	001202			
B. Company	Description:			400	1800 PM		
buildings, and tragreement to magreement to	we continents and serves clients in the global material ansportation. Conestoga-Rovers & Associates (Conerge the two companies. The merger is expected gers to have occurred in the engineering and entity interests, and each company's shareholders. CRA is a 3,000-person multi-disciplinary engined. Together GHD and CRA professionals will be welcombers of the Central Naugatuck Valley for Dames of our business is our client-centered culture and vering services locally, we are united by the core eligiboring states and resources worldwide. GHD keed by industry professionals in related fields incompanied in the professionals provides us with instant accessional professionals provides us with instant accessional client since these resources can be accessed in the detail of the conditional professionals provides us with instant accessional client since these resources can be accessed in the conditional professional provides in an ethical and enviloned and conduct business in an ethical and enviloned and e	CRA) and do to close vironmer becoming ening, eniell position and teamwers, but has one cluding goal science as to a were adily the We put of ironmentes. We was, maxim 19001:20	GHD annour in July 2014 ital industry, g mutually divironmental, oned to responsive the larges of Teamwork is additional of the larges otechnical east of forward our estalth of forward our clients firstally responsivill work closizing benefit:	nced in M 1. Once control 2. with the depender of the construction of the constructi	March that the complete, this complete, this complete, the control of the complete services. It and Integrificate dams tead dams tead may, geology, nology. Have sing, technical difference or the wellboner. You caryou through takeholders	ey have e is will be combining ther for the formation ope of services. The GHD has a cross hydroged ing our exall profession dwide combined in expect sout the erall of our the erall of the combined in expect sout the erall of the combined in the co	entered into an one of the resources, he creation of the rechnology rvices Operating has local egulatory as the globe. Hology, epansive ionals, but also numication ar people, assisted arety of entire project
For more inform	ation, visit www.ghd.com						

C. Staff Information

		gned dam safety related to to the submittal e-mail.	asks, please prov	vide the follow	ing inform	nation. For each staff	
Staff 1 Name:	Beth Ann Smith, PE B	CEE	Title: Geotechnical Engineer				
Primary Duties:	Project Manager for regul involving O&M plans, EA engineering assessment p	Ps, safety inspections and	Connecticut P.E. License #: NY PE: 068971				
	include design, permitting		Relevant Year	s Experience:	26	Resume Attached 🔀	
Staff 2 Name:	Dustin Briere, EIT		Title: Hydraul	ics and Hydrolo	ogy Engine	eer	
Primary Duties:	Regulatory compliance pr maintenance plans, emerg inspections and engineeri		Connecticut P.	E. License #:	CT EIT: 00	10366	
			Relevant Year	s Experience:	2	Resume Attached 🔀	
Staff 3 Name:	Chris Kwasniewski		Title: Structural Engineer				
Primary Duties:		gulatory compliance projects Ps., safety inspections and	Connecticut P.	E. License #:	NY PE: 81	520	
	include design, permitting		Relevant Year	s Experience:		Resume Attached 🔀	
Staff 4 Name:	Jeffrey Lambert, PE LE	EP LSP	Title: Associat	e			
Primary Duties:	Civil and environmental e	Connecticut P.E. License #: 24811					
			Relevant Year	s Experience:	17	Resume Attached X	
Staff 5 Name:	Stuart Manley, LEP CHMM		Title: Senior Project Manager				
Primary Duties:	hydroelectric development, and wetland permitting/		Connecticut P.	E. License #:	CT LEP: 36	57	
mitigation plans.		Relevant Years Experience: 31 Resume Attached					
D. Services:							
specialized dam-r	elated services, please	your firm is qualified to u list them in the space pro previous work and referen	vided. In follow	ing sections yo	u will be a		
Dam Inspection	×	Inundation Modeling as Mapping				m Safety Related Services:	
Dam Emergency Preparation	Action Plan	Hydrologic and Hydrau Studies	ic 🔀				
Dam Operations Management Pla	IVI	Stability Analysis	\times				
Dam Repair Plan	Preparation 🗵	Underwater Investigati	on 🗌				
Dam Removal Pla	n Preparation 🔀	Dam Repair and Constr Monitoring	uction				

E. Qualifications:

Please explain your firm's qualifications for each service checked or listed in section D.

GHD and CRA will meet your engineering needs, as well as your expectations for responsiveness with the following:

-Experienced Project Team that has managed many dam engineering, natural resources permitting and stream restoration design and construction projects. By leveraging GHD's experience and expertise in dams, we have allowed our dam clients to maximize the benefits from their capital invested. Our project team includes engineers and scientists in the Connecticut offices, with regional resources in White Plains, NY and Cazenovia, NY from which to draw upon. The technical team reaches across our seamless network to Canada, Australia and New Zealand.

-Knowledge and Resources Worldwide through GHD's internal network, the project team will have instant access to key technical specialists in the field of dam engineering and stream restoration throughout the US and around the world. A broad depth of knowledge allows us to bring past and present project experiences to your local needs.

-Dedication to providing client service, meeting your vision for the project and the environment. This commitment allows us to deliver assignment on time and within budgets.

Experience

GHD staff has worked on a number of dam projects from the first dam design phases, permitting, construction, asset management and decommissioning projects throughout the world, and are adept at developing solutions with attention to the operational needs of our clients.

Identifying needs

We recognize our client's need for guidance and services that harness in-depth knowledge with forward thinking to produce innovative, safe and cost-effective outcomes. With the state regulations putting stricter responsibilities on dam owners, we realize our clients need for a trusted professional that is familiar with the process of regulatory transitioning. We'll work corroboratively with you to deliver results in line with these objectives.

Dam Inspections and Operations and Management Plans - Ongoing maintenance of the safety of a dam and associated infrastructure is crucial in protecting communities and your assets. We're experienced in all aspects of dam safety requirements including inspections, surveillance reviews, detailed safety reviews, development of dam safety documentation, dam safety training, and post-disaster inspection and assessment. A key strength of our team is the use of risk assessment for the review of both individual dams and dam portfolios.

Dam Emergency Action Plan (EAP); Inundation Modeling and Mapping and Hydrologic and Hydraulic Studies - We have prepared over 20 EAPs that have included inundation modeling and mapping with hydrologic and hydraulic studies. These have included high hazard and significant hazard dams in the highly populated areas and sparsely populated areas. The modeling has included straight stream channels in well defined valleys to meandering creek channels with in-line man-made structures and other dams to include in the process. For dams that may not have a rainy and sunny day event, we have looked at the incremental effect of a dam breach to storm events other than the design flood event.

Dam Engineering Assessment and Stability Analysis, Dam Repair and Removal Plan Preparation, Permitting and Construction Monitoring - We can work with you through the early phases of projects in the identification of project opportunities, site selection and optimization, site investigations including geotechnical, hydrogeological and hydrological/hydrometeorological assessments, feasibility and option studies, environment assessments and input for gaining statutory approvals. All of these skills can help to provide the options available for repair of the dam to meet regulatory compliance for maintaining the dam in place. The same skills can help to provide the options available for complete or partial removal of the dam. We provide design services through all phases of a project regardless of size from concept through to detailed engineering. Our experience covers all disciplines including foundation design, dam design including sizing, material zoning, structural and slope stability, investigation and assessment of construction materials, modelling, analysis and design of hydraulic and structural components, and design of mechanical components including gates and outlet works. We provide experienced construction engineers in both technical and project management through the construction phase to ensure the quality of the end result. We have provided numerous projects that started with an engineering assessment of the dam and appurtenances and ended with construction documentation filed with regulatory compliance.

Operational Support

Our people provide support throughout the operational life of dam assets in areas including asset management and valuations, condition assessments, dam safety and risk assessments, rehabilitation works including corrosion control and concrete repairs, sediment deposition management and seepage analysis and control solutions.

F. Examples of Previous Work:

For each service checked or listed in section D, provide at least one comparable project completed by your firm within the past 10 years. Provide a brief description of the service rendered, the project name and location (Town and State), dam class, and a

customer reference name and contact information (phone and/or e-mail)

costollier reference name and contact line	iniation (phone and/or e-n	Tall)			
Service Provided	Dam Name and Location	Dam Class	Customer Reference Name	Customer Reference E-mail/ Phone	
Permitting, design and construction of Goodwives River Spillway Replacement	Country Club of Darien, Darien, CT	А	Tim O'Neill Country Club of Darien	203-655-9726 toneill @ccdarien.org	
Permit, design, and construction 34' Embankment Dam Rehab, EAP, I&M	Pocantico Lake Dam Westchester County NY	С	Jeffrey Dean Weschester County DPWT	914-995-3361 jadc @westchestergov.com	
Permit, design, and construction 30' Embankment Dam Rehab, EAP, I&M	New Rochelle Res No 3 Dam, Westchester County	С	Jeffrey Dean Weschester County DPWT	914-995-3361 jadc @westchestergov.com	
85' Concrete Dam Engineering Assessment, Safety inspection, and EAP	Boyd Dam Lewis, NY	С	Frank Tallarino City of Rome	315-339-7625 ftallarino @romecitygov.com	
Permitting, design and construction of Rehabilitation of 24' Concrete Dam	Kessinger Dam Annsville, NY	А	Frank Tallarino City of Rome	315-339-7625 ftallarino @romecitygov.com	
Permit, design, and construction 30' Embankment Dam Rehab, EAP, I&M	Woodlands Lake Dam Westchester County, NY	С	Jeffrey Dean Weschester County DPWT	914-995-3361 jadc @westchestergov.com	
I&M, EAP, Engineering Assessment Earthen Embankment Dams	Little Falls Reservoir Dams Little Falls NY	В	Dan Benett City of Little Falls, NY	315-823-0890 littlefalls wtp@verizon.net	
Safety Inspections, EAP, Engineering Assessment Earthen Embankment Dams	Water Supply Reservoir 1 and 2 Dams, Norwich NY	С	Carl Ivarson City of Norwich, NY	607-334-1255 conwwtp @frontiernet.net	
Permit, Design, and Construction Run of River dam structure removal	Canasawacta Creek Norwich, NY	D	Carl Ivarson City of Norwich, NY	607-334-1255 conwwtp @frontiernet.net	
Permit, design, and construction 9' Stone Dam Rehabilitation	Picture Pond Dam Stamford, CT		Private Client		
EAP, Engineering Assessment Earthen Embankment Dams	Reservoirs No. 1, 2 & 3 Port Jervis, NY	С	Jack Farr City of Port Jervis, NY	845-858-4000	
Permit, design, and construction Embankment Dam and 2 Dikes	Reservoir No 2 Main Dam Port Jervis, NY	С	Jack Farr City of Port Jervis, NY	845-858-4000	
2012 Dam Safety Inspection, EAP Update & Maintenance Activities	Thurston Pond Dam Naugatuck CT	С	Paul Meyer Chemtura Corporation	203 573 3545 paul. meyer@chemtura.com	
2014 Dam Safety Inspection & Maintenance Activities	Thurston Pond Dam Naugatuck CT	С	Paul Meyer, Chemtura Corporation	203 573 3545 paul. meyer@chemtura.com	
2012 Dam Safety Inspection, EAP preparation & Maintenance Activities	Long Meadow Pond Middlebury/Oxford CT	В	Paul Meyer, Chemtura Corporation	203 573 3545 paul. meyer@chemtura.com	
Hydroelectric Feasibility Study	Long Meadow Pond Middlebury/Oxford CT	В	Paul Meyer, Chemtura Corporation	203 573 3545 paul. meyer@chemtura.com	
Hydroelectric Feasibility Study	Thurston Pond Dam Naugatuck CT	С	Paul Meyer, Chemtura Corporation	203 573 3545 paul. meyer@chemtura.com	
2013 Dam Safety Inspection	Conrad Pond Dam New Haven CT	В	Whyndam Abrams, Yale University	203 432 2093 whyndam. abrams@yale.edu	
Riverbank Restoration and Stabilization	Five-Mile Creek Norwalk, CT		Lise Bacon Norwalk, CT	203-838-0159	
Watercourse Assignments - relocation of Goodwives River Channel	Country Club of Darien, Darien, CT		Tim O'Neill Country Club of Darien	203-655-9726 toneill @ccdarien.org	