

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. (COMPLETE ONE SECTION F FOR EACH PROJECT.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>1</b>	
21. TITLE AND LOCATION (CITY AND STATE) <b>BROWNS RESERVOIR DAM LEWISBORO, NEW YORK</b>		22. YEAR COMPLETED PROFESSIONAL SERVICES <b>2000 – PRESENT</b> CONSTRUCTION <b>(IF APPLICABLE) 2012-ONGOING</b>	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT SPONSOR <b>FIRST TAXING DISTRICT, CITY OF NORWALK, CONNECTICUT</b>		b. POINT OF CONTACT NAME <b>MR. MICHAEL A. ELLIOTT, P.E.</b>	c. TELEPHONE NUMBER <b>(203) 847-7387</b>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

**RIZZO Associates (RIZZO)** was retained by the First Taxing District, City of Norwalk, Connecticut, to prepare the Analysis, Design, and Construction Documents for the necessary improvements to the Browns Reservoir Dam a class “C” High-hazard Dam. The Dam was built between 1908 and 1910, to impound the Browns Reservoir as a drinking water supply for the City of Norwalk, Connecticut. It is located in southeastern New York, adjacent to the Connecticut state line in the Town of Lewisboro, Westchester County. Browns Reservoir is formed by the east and west branches of the Silvermine River. The main features of Browns Reservoir Dam are the north and south earthen embankments, the stepped concrete masonry broad-crested weir Spillway, and the low level outlet pipes running through the base of the Dam.



*Browns Dam Spillway 2008*

The Dam's earthen embankments have a maximum height of 45 feet, a length of about 1,200 feet, crest width of about 14 feet, a concrete core wall, riprap protected upstream slopes of 2H:1V and downstream slopes of 1.5H:1.0V overgrown with trees and brush. The low-level outlet includes an upstream stone masonry intake head wall, a gate house structure extending 50 feet through the Dam from the crest, two cast iron outlet pipes (30 and 16 inches in diameter), and a valve chamber at the downstream end. The concrete spillway is 226-feet-long and has five concrete tiers or steps on the downstream side to form the drop structure.



*Browns Dam Spillway 2013*

As part of the design process, RIZZO performed the following Tasks:

- Prepared stability analyses for the earthen embankments and concrete spillway to determine remedial measures needed to meet NYSDEC criteria;
- Prepared a design report, design calculations, and construction documents for the necessary improvements to the dam;
- Prepared, submit, and coordinated construction permit applications to the NYSDEC, United States Army Corps of Engineers (USACE), and the Town of Lewisboro;
- Developed construction cost estimate for the remedial design;
- Provided engineering support during construction.
- As-built drawings will be provided once permit list items are resolved.
- Updated the Emergency Action Plan (EAP) and inundation maps; and
- Prepared an Inspection and Maintenance (I&M) Plan.

5. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
Paul C. Rizzo Engineering – New York, PLLC Paul C. Rizzo Associates, Inc.	Tarrytown, New York, and Pittsburgh, Pennsylvania	Geotechnical Engineering to meet NYSDEC Dam Safety and Design Requirements

