

Assignment Name: Riverbank Restoration (South Highfield)		ID#: 17
Country: Canada Location within Country: Alberta	Approx. value of the contract: Not available.	
Name of Client: City of Calgary (Water Department).	Approx. value of the professional services provided under the contract: US\$ 250,000	
Address:	Total No. of staff-assigned to Project: 3	
Start date (month/year): December 2013	Total No. of staff-months of the assignment: 2	
Completion date (month/year): March 2014	Duration of assignment (months): 4	
<u>Narrative description of Project:</u> Design and construction supervision of a riverbank restoration project after severe flooding of the Bow River in August 2013 burst the banks of the river and severely damaged critical infrastructure (roads, bridge abutments).		
<u>Description of actual services provided by professional engineering staff within assignment:</u> The Bow River flooded in August 2013 causing significant damage to riverbanks and associated infrastructure. This location was downstream of the Bow River Bridge crossing, and the flooding was within close proximity to the eastern shoulder of Highway 2 running through Calgary. The emergency design consisted of a gabion and rock-fill solution with additional flood protection berms and stormwater by-pass and attenuation ponds. The significant criteria were speed and ease of construction and compliance with all relevant environmental regulations pertaining to working in rivers and within the riparian zone. Project construction commenced within the required timeline and within City budget limits.		
<u>Description of Activities provided by RWI</u> Project Director and civil design QA support to the civil and stormwater modelling engineers. Design and construction sequence planning of river placement of gabions and rock fill resulted in design changes driven by the understanding of the capacity of available construction equipment. This approach was taken to facilitate rapid construction of the flood berms and the remedial solutions.		

