

<b>Assignment Name:</b> Bonnybrook WWTW – New Treated Effluent Water (TEW) distribution system		<b>ID#: 8</b>
<b>Country:</b> Canada <b>Location within Country:</b> Alberta	<b>Approx. value of the contract:</b> US\$ 1.8-million.	
<b>Name of Client:</b> City of Calgary (Water Department).	<b>Approx. value of the professional services provided under the contract:</b> US\$ 300,000.	
<b>Address:</b>	<b>Total No. of staff-assigned to Project:</b> 8.	
<b>Start date (month/year):</b> January 2013	<b>Total No. of staff-months of the assignment:</b> 9.	
<b>Completion date (month/year):</b> December 2014	<b>Duration of assignment (months):</b> 24	
<b><u>Narrative description of Project:</u></b> Design and construction supervision for a treated effluent water supply system (TEW) for reuse in the plant for washing-down and process water use in the plant.		
<b><u>Description of actual services provided by professional engineering staff within assignment:</u></b> Project Manager and Process Design lead for a treated effluent water supply system (TEW) for reuse in the plant for washing-down and process water use in the plant; including final design of the pipeline and pump station interface (pump station by others).  Pipeline routing in underground utility tunnels using C3D planning to identify and mitigate clash detection. Preparation of a procurement package including tender drawings, technical and commercial specifications and schedule of quantities.		
<b><u>Description of Activities provided by RWI</u></b> Project Manager and design lead for the (TEW) pipelines (pressure and transient analysis), including design of support brackets for the TEW pipeline in the underground tunnels (for connection to either roof or walls of tunnels).  Manage the C3D / Revit model development to undertake clash detection and plan mitigate measures for the identified clash points. Preliminary layout and design of the pump station, including pump selection, pipe sizes and inlet / outlet controls, but final design of the pump station undertaken by others.  Design of the external pipeline portions had to allow for future construction requirements and methodologies for the WWTP expansion which included partly buried circular treatment tanks. Limited space due to current and future physical components required planning based on construction requirements.  Provided project oversight of the procurement package to the project engineers; client management and management of various claim and scope variation submissions.		

