

Assignment Name: Hangingsstone Project - Site services and drilling platform development		ID#: 15
Country: Canada Location within Country: Alberta	Approx. value of the contract: Not available.	
Name of Client: Athabasca Oil Sands Corporation, AOSC Hangingsstone Partnership	Approx. value of the professional services provided under the contract: US\$ 600,000	
Address:	Total No. of staff-assigned to Project: 3	
Start date (month/year): February 2012	Total No. of staff-months of the assignment: 5	
Completion date (month/year): October 2013	Duration of assignment (months): 21	
<u>Narrative description of Project:</u> Preliminary and final design of for all off site utility and services for the Main Access Road, CPF, Camp Site services, well pads and access roads to well pads.		
<u>Description of actual services provided by professional engineering staff within assignment:</u> Services included: The rework of the Civil3D model for the Central Plant Facility (CPF), Campsite and Main Access Road to accommodate changes arising out of coordination with third parties. Undertake Value Engineering exercise for all surface works and drainage facilities. Continued coordination with third parties, such as Equinox and Jacobs, including attendance at coordination meetings, recording and issuing of coordination meeting minutes. Provision of support in the preparation of the commercial terms associated with the tender documents, and coordination of the content with third parties, such as Equinox. Provide Tender Support during procurement process. Provision of miscellaneous Engineering support, in answering queries related to regulatory applications being completed by the Owner, including attendance at meetings as required.		
<u>Description of Activities provided by RWI</u> Project Director and civil design QA support to the civil and stormwater modelling engineers. Facility location was in a restricted area surrounded by muskeg and wetland areas. Surface drainage was facilitated through raising earthworks platforms above natural ground level and VE was required to minimize earthworks construction costs while meeting all drainage criteria. CPF and Well Pad facilities had additional constraints in that the estimated facility operating life was 15 years, requiring additional thought in developing robust and viable solutions that recognized capital expenditure restrictions.		

