

November 11, 2018

Mr. Samir Hebib
Bauer Foundations Canada Inc.
5050 74th Ave SE
Calgary
Alberta T2C 3C9

Re: Site C Clean Energy Project – MCW Contract (MCWC) – 92598, (BC Canada)
Subject: Letter of Reference – Foundation Works Executed by BAUER Foundations Canada Inc.
File ID No.: SCCEP-PRHP-PM-LTR-001160

Dear Sirs and Madam:

Following the successful completion of BAUER's part of the project, Peace River Hydro Partners would like to express its appreciation for the means and methods in which BAUER has performed on the project.

BAUER Spezialtiefbau GmbH, whose office is located at BAUER Straße 1, 86522 Schrobenhausen, Germany has been engaged by Peace River Hydro Partners (Acciona Infrastructure Canada Inc., Samsung C&T Canada Ltd. and Petrowest Corporation) for the construction of foundation works at SITE C project. The Owner for this dam project is the British Columbia Hydro and Power Authority (BC Hydro)

The objective of this dam is the creation of a third hydro-electric power plant on the Peace River in northeast British Columbia (B.C.). B.C. is the westernmost province in Canada, located between the Rocky Mountains and the Pacific Ocean. The dam will be a source of clean, renewable and affordable electricity in B.C. It will provide 1,100 megawatts (MW) of capacity, and produce about 5,100 gigawatt hours (GWh) of electricity each year – enough energy to power the equivalent of about 450,000 homes per year in B.C. The development includes the constructing two temporary cofferdams and diversion tunnels; the building an 800-metre-long roller-compacted-concrete buttress; the constructing an earthfill dam approximately 1,050 meters long and 60 meters high above the riverbed; the building a generating station and the installing six 183 MW generating units.

Details of the Contract execution period: August 2016 to November 2017. In order to meet the specified construction schedule, the cut-off wall works had to be executed through the winter months facing the harsh winter conditions of Northern Canada. Temperatures during wall installation were as low as - 25° Celsius (lower than -30° Celsius when considering the wind chill) and this has required a special winterization set-up for the mixing plants as well as the slurry lines.

Location: The site of SITE C project is located in the northeastern part of British Columbia, seven kilometers southwest of Fort St. John. Located at Mile 47, Fort St. John is one of the largest cities along the Alaska Highway. Originally established in 1794, as a trading post, Fort St. John is the oldest European-established settlement in present-day British Columbia.

The Peace River is a 1,923 km-long river that originates in the Rocky Mountains of northern British Columbia and flows to the northeast through northern Alberta. The Peace River joins the Athabasca River in the Peace-Athabasca Delta to form the Slave River, a tributary of the Mackenzie River. The Finlay River, the main headwater of the Peace River, is regarded as the ultimate source of the Mackenzie River. The combined Finlay–Peace–Slave–Mackenzie river system is the 13th longest river system in the world.

The installed single phase cut-off walls provides the necessary vertical underground sealing. The cut-off walls Bauer's scope of work comprised the installation of four cement-bentonite cut-off walls at various locations along the new proposed dam.

Quantity: approx. 80,000 m² single phase cut-off wall which included a maximum rock embedment of 3.8m into weak sandstone / mudstone in order to reach the designed cut-off wall toe levels. The works were executed by utilizing up to three excavation units (both hydraulic and rope grabs). Depth of cut-off walls: the average excavation depth was 21 m with a maximum depth reaching up to 25 m. Thickness of cut-off walls: nominal thickness of 0.6 m and a maximum of 1.8 m

Geological condition: The site consist of heterogeneous subsoil conditions. There were layers of clay, silt, sand, gravel, cobbles and also weak sand- and mudstone, as well as dike fill material with a thickness between 4 and 6 m. The professional way in which the BAUER team prepared and executed the works was very well received. Trial mixes and generally quality management and control along the detailed method statement secured the highest standards of quality for the product.

The work carried out in constructing the cement-bentonite cut-off walls in Canada was very professional. BAUER proactively was seeking solutions and correcting problems and were answering questions related to any subjects of the works. I also note that the matters were few and infrequent.

BAUER's professional approach towards Health Safety Environment (HSE) was excellent. The project was executed within the agreed schedule.

Yours sincerely,

PEACE RIVER HYDRO PARTNERS (PRHP)



Daniel Cuartero
Project Director, PRHP