



Empire achieves a 19.89% reduction in fuel consumption at Butler Concrete & Aggregate Ltd.

May10, 2021: Sidney, BC: We are very pleased to announce that after extensive testing by an independent third party, the Empire Hydrogen Fuel Enhancement System has achieved a 19.89% reduction in diesel fuel consumption on a Cummins QSX generator at Butler Concrete & Aggregate Ltd. This generator is used to crush rock into the aggregate gravel Butler supplies to their customers.



The testing was completed by Wilson & Proctor Ltd, Vancouver Island's leading repair and machining facility for heavy duty diesel truck and marine engines. It was done over two weeks covering 40 hours with and 40 hours without the Fuel Enhancement System. In both cases the generator output the same level of electrical power and the same rock aggregate was produced. There can be no doubt that this was a balanced and fair test of the effectiveness of Empire's H₂,O₂ accelerant gas system.

The specific testing results were:

Without Fuel Enhancement System:	398.7 gallons consumed	9.967 gallons per hour
With Fuel Enhancement System:	319.4 gallons consumed	7.985 gallons per hour
Improvement:	79.3	1.983 gallons per hour (19.89% reduction)

Butler Concrete & Aggregate is fully committed to green initiatives: the company has introduced the Climate Earth Project Builder Tool - Providing integrated embodied carbon reports and a wide range of possible carbon impacts for project. The tool allows architects, engineers and developers to see the embodied carbon impact of individual mixes and creates downloadable reports broken down by application. Utilizing these reports provides a unique opportunity to plan, build and market future projects with an informed embodied carbon profile.

For more information on this contract, please contact Sven Tjelta, Andrew Evans or Bill Campbell directly at 778-426-0911 or Andrew@EmpireHydrogen.com