# JOHN BEATH ENVIRONMENTAL, LLC
*Striving to make something better every day*

jbe
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September 19, 2023

Joseph Shacat
Director of Sustainable Pavements
jshacat@asphaltpavement.org
301-731-4748

National Asphalt Pavement Association
6406 Ivy Lane, Suite 350
Greenbelt, MD 20770-1441

Dear Mr. Shacat,

The National Asphalt Pavement Association (NAPA) commissioned John Beath Environmental, LLC (JBE) to conduct an external independent verification of updates to its online Emerald Eco-Label EPD tool, version 2.1.0, for generating environmental product declarations (EPDs) of asphalt mixtures. The tool was developed and updated by WAP Sustainability and is intended to support NAPA's Emerald Eco-Label EPD program. The updates that were reviewed pertain to tool functionality for the generation of EPDs for asphalt mixtures produced by portable plants, and the scope of the independent review focused on portable plants only.

The tool updates were reviewed for conformance to the following standards:

- ISO 14025:2006, Environmental labels and declarations — Type III environmental declarations — Principles and procedures
- ISO 21930:2017, Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services
- Product Category Rules (PCR) for Asphalt Mixtures, version 2, April 2022

The verification took place after tool updates were developed. Access to a development server was granted to the verifier; tool input fields, generated EPD content, and calculated results were evaluated for conformance to the applicable standards. Only tool front-end inputs and results were assessed for conformance; the review excluded an evaluation of back-end calculations and other operations. Feedback was sent to WAP Sustainability and NAPA via a comment matrix spreadsheet. Two rounds of feedback were conducted.

NAPA's Emerald Eco-Label EPD tool, version 2.1.0, was found to be in conformance with the applicable standards for portable plants. The remaining elements highlighted in NAPA's "Statement of Limitations in Emerald Eco-Label Software", effective April 1, 2022, are still considered to be not in conformance with the applicable standards.

This verification acknowledges and accepts that NAPA has not yet implemented all features in the EPD tool due to time constraints—as stated in NAPA's "Statement of Limitations in Emerald Eco-Label

Software", effective April 1, 2022. As the verifier, I look forward to NAPA closing these gaps to further bring the software into alignment with the PCR and help work towards a more sustainable paving industry.

Sincerely,


Vicki Rybl
Senior Sustainability Consultant
John Beath Environmental