

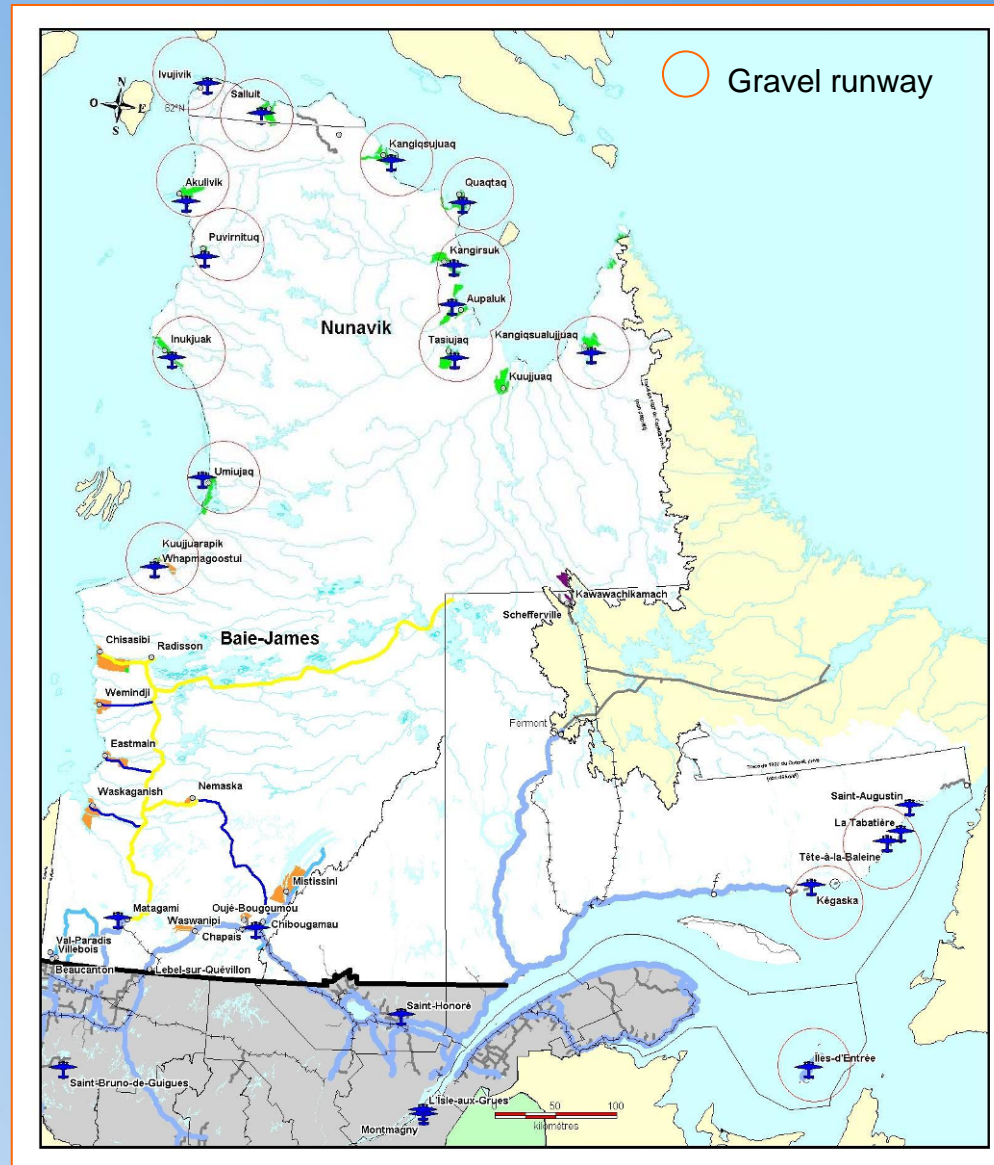
Dust Palliative Environmental Requirements for Gravel Runways in Québec: A Practitioner's Perspective



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ENVIRONMENTAL REQUIREMENTS ON DUST PALLIATIVES

WHY?

- **SAFE FOR HUMANS**
- **NO NEGATIVE IMPACT ON ENVIRONMENT**



ENVIRONMENTAL REQUIREMENTS ON DUST PALLIATIVES

WHAT FOR?

- **QUANTITATIVELY EVALUATE ANY IMPACT ON HUMAN HEALTH, WILDLIFE, WATER AND SOIL .**



ENVIRONMENTAL REQUIREMENTS ON DUST PALLIATIVES

WHAT IS REQUIRED?

PRODUCT CERTIFICATION FROM BUREAU DE LA NORMALISATION DU
QUÉBEC (BNQ) ACCORDING TO THE STANDARDS FOR
DUST ABATEMENT PRODUCTS FOR NON-ASPHALTED
ROADS AND OTHER SIMILAR SURFACES



Establishes the ecotoxicological
requirements for dust abatement
products

BNQ STANDARD ON DUST ABATEMENT PRODUCTS FOR NON-ASPHALTED ROADS AND OTHER SIMILAR SURFACES

GENERAL REQUIREMENTS

- ❖ **Known and identifiable chemical formula or industrial process**
- ❖ **Not considered as/Devoid of the properties of a hazardous substance**



BNQ STANDARD ON DUST ABATEMENT PRODUCTS FOR NON-ASPHALTED ROADS AND OTHER SIMILAR SURFACES

SPECIFIC REQUIREMENTS

- ❖ **Product complexity index**
- ❖ **Source : presence of critical contaminants**
- ❖ **Level of acceptable degradation achieved**
- ❖ **Index of product mobility**
- ❖ **Bioconcentration potential of detected critical contaminants**
- ❖ **Aquatic toxicity level**
- ❖ **Soil toxicity level**
- ❖ **Genotoxicity level**

BNQ STANDARD ON DUST ABATEMENT PRODUCTS FOR NON-ASPHALTED ROADS AND OTHER SIMILAR SURFACES

SPECIFIC REQUIREMENTS

Ex.

PRODUCT COMPLEXITY INDEX		
Number of Substances Detected	Hazard	Weighted Score
< 10	very slight	1,2
10 - <20	slight	12
20 - <30	moderate	120
≥ 30	high	1 200

Total score for all specific requirements no higher than 4 500

BNQ STANDARD ON DUST ABATEMENT PRODUCTS FOR NON-ASPHALTED ROADS AND OTHER SIMILAR SURFACES

FINANCIAL INVESTMENT

For a two year period

❖ Request processing fees	5 350\$
❖ Sampling visit	1 500\$
❖ Lab analysis	35 000\$
❖ Follow-up visits (2/year)	<u>6 000\$</u>
	48 000\$



BNQ STANDARD ON DUST ABATEMENT PRODUCTS FOR NON-ASPHALTED ROADS AND OTHER SIMILAR SURFACES

OUR EXPERIENCE

- ❖ **Certified product not suitable for aircrafts**
- ❖ **Use of a non-certified product with temporary authorisation**
- ❖ **Prohibitive cost for certification given limited sales in Québec**
- ❖ **Proof of product “certifiability” to obtain long-term authorisation**
- ❖ **Conditional long term autorisation because of one criteria**



QUESTIONS ?

