Parc Frédéric-Back / Complexe Environnemental de Saint-Michel **A unique metamorphosis**

23-31

Montréa

FRÉDÉRIC - A C K

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A model transformation...



Frédéric-Back Park

Part of Montréal's Great Parks' network
Metropolitan Park, along with Mount Royal Park



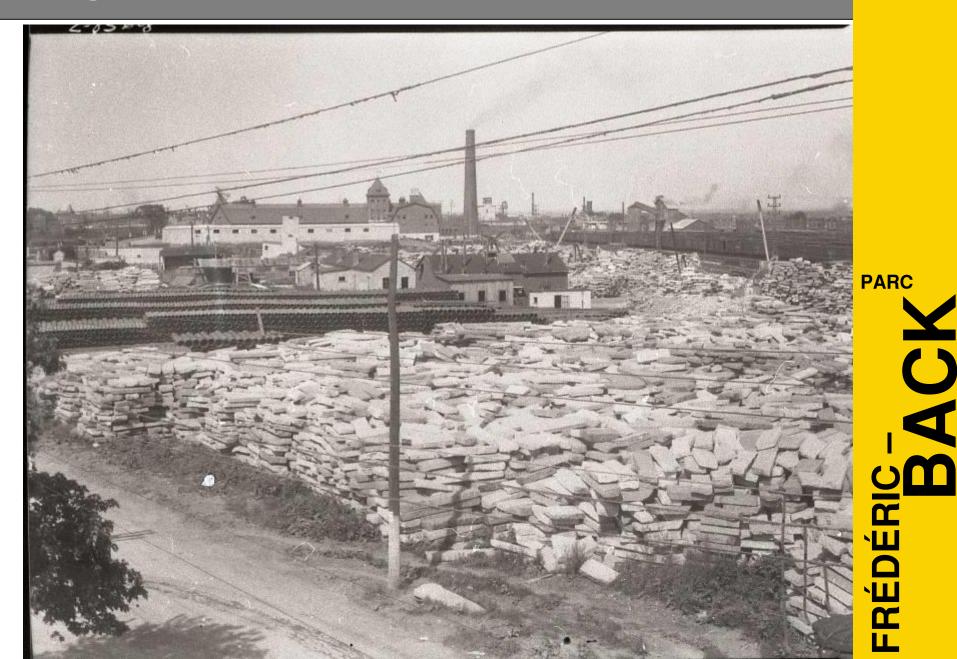
A timeline...

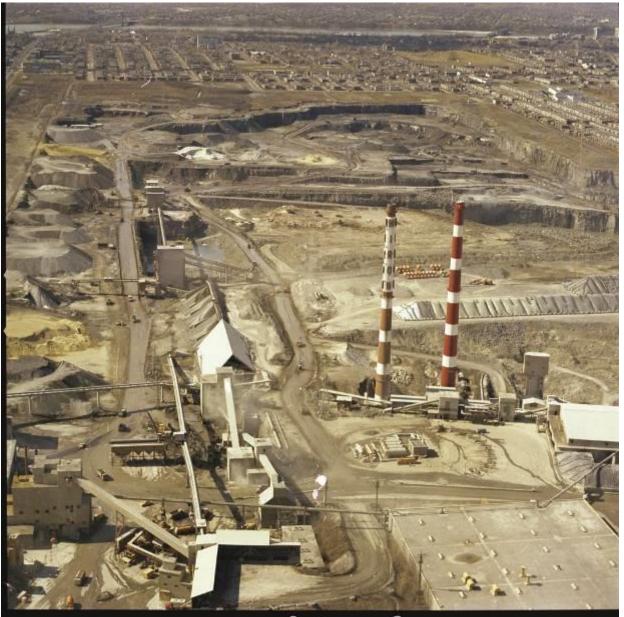
1749 1957 **1984**

- 1995
- 1997
- 1999
- 1993
- 2000
- 2004
- 2009
- 2009
- 2014
- 2014

- Several small quarries and lime kilns present on site
- The four existing quarries merge under the name MIRON
- City of Montréal acquires site ends extraction activities
- A 5 km linear park is opened on the Couronne area
 - Management building is built
- Site's Master plan is adopted
- The Écocentre Saint-Michel opens its doors
- End of the domestic waste landfill
- Opening of the Welcoming Pavillion (TOHU)
- 9 Opening of the TAZ (rollerblade and skateboard stadium)
 - End of the inert materials landfill
- 4 Landfill covering completed
- 2015 Beginning of the park's construction
 - Opening of the soccer stadium
- **2017** Inauguration of 375th anniversary legacy (park center)
- 2025 Park's completion

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Area closed to the public

Area opened to the public

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Design goals



Mission

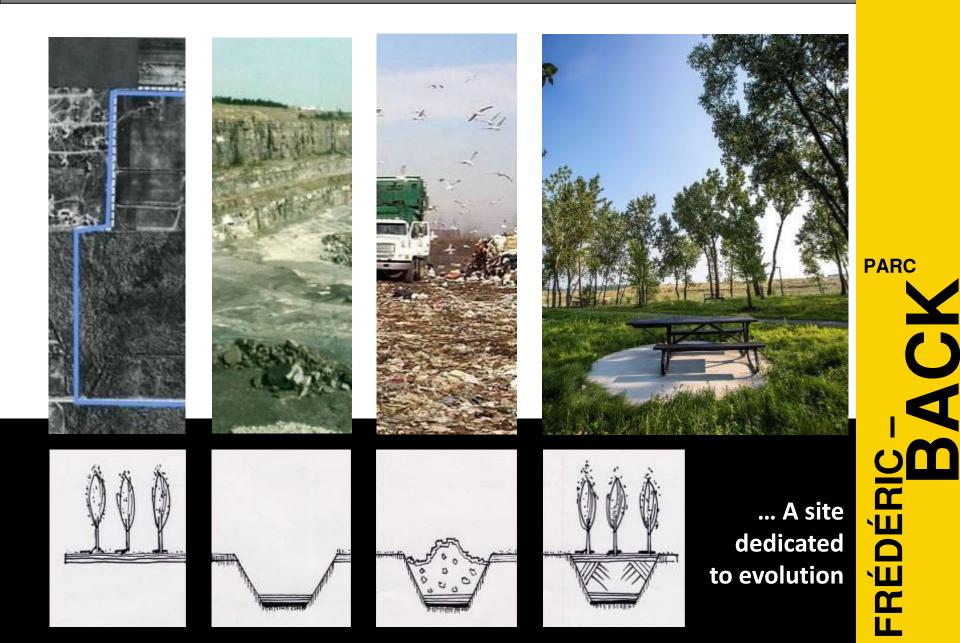
Identifying features :

Goals

- : Education Environment Culture
 - Vastness Environmental design –
- s : Exceptional experience
- : Highlight site's history and landscapes Promote biodiversity and sustainable ecosystems Contribute to Montreal's International recognition

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Design concept - METAMORPHOSIS



Site's Master Plan – Today



Poles



Sectors



CROWN : Champdoré / Iberville / Jarry / Papineau CENTER : Lac / Plaine / Boisé / Terrasses PARC Ц Ш С Ц

Planting Strategies

- ✓ Adapted management plan
- Indigenous plants biodiversity Ecosystemic corridors \checkmark

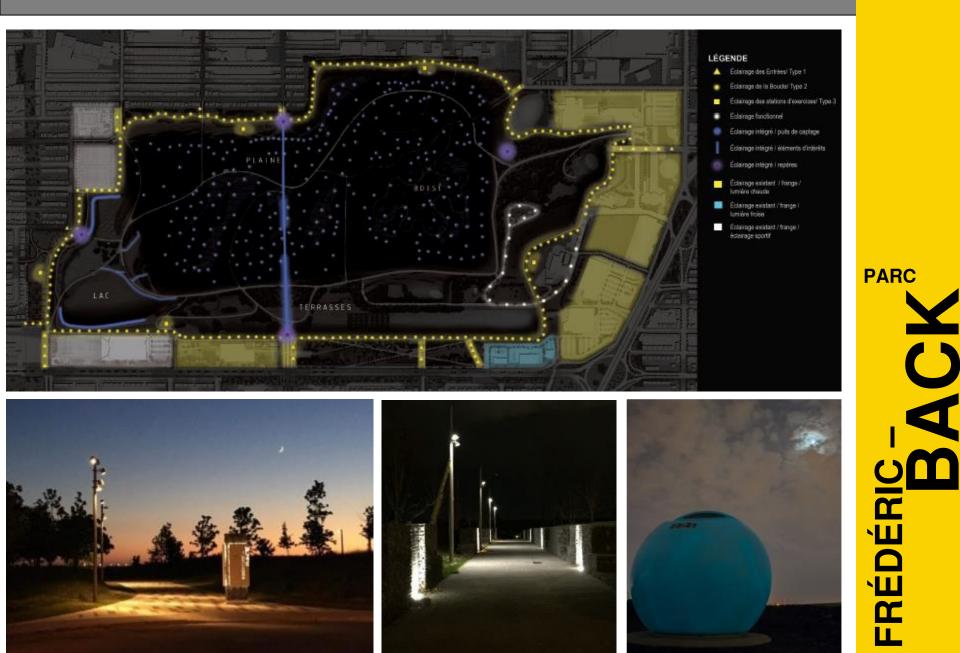


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Lighting strategy



Interpretation strategy

- ✓ Guided and self directed tours / Thematic trails
- ✓ Interactive and non intrusive experience



Animation strategy

Contact with nature – Unusualness – Interaction - Variety – Educational – Fun – Imaginative – Family oriented – Group and individual -



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Activities - SUMMER



Activities - WINTER















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Technical challenges



- ✓ Underground : 40M tons of garbage /70m high
- ✓ 500 biogas-wells-piezometers-valves+17 km underground pipelines

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- ✓ No water percolation and no intrusion in the landfill top layer
- Microclimate+poor soil+water restriction = limit plant material
- \checkmark Soil settlements request a flexible design
- ✓ Challenges with surveillance, security, accessibility and visibility
- ✓ Landlocked site with steep cliffs / long corridors without exit

Technical challenges

- Site's climate extremes
- Soil quantity quality amendments
- Sustainable maintenance vs citizens' requests vs undesirable plants management
- Fauna vs human cohabition security/education
- Gentrification of surrounded area
- Political support through time







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Citizens implication

Public consultation - Concertation table with over 21 organisms - local employment favored by our partners

Reused and recycled material

Soil, Sand, Rock-Concrete, Crush stone, Leaves compost, Mulch, Ash logs torrefied and transformed into furniture...

Biogaz recycled + leachate treated
Biogaz transformed into electricity - Leachate tre

Biogaz transformed into electricity - Leachate treated on site

Stormwater management

System of ditches, cascades, basins, lake to avoid percolation

Biodiversity

Indigenous and xerolandscape plants - Wildlife corridor dedicated to fragile species – ecohabitats...

Sustainable transportation

Public and active transportation favored (2 mobilility hubs) -Electrical shuttle and maintenance vehicules by 2020



The SPHERES – 255 protective cases

Adaptable 3m wide round shape -Highlights environmental engineering Reduces winter maintenance and effect of soil Phosphorescent paint for curiosity and animation



Phase 1 – 2017 – 26 hectares



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Phase 1 + Crown : 48 hectares opened to public

Legacy for the 375th anniversary of Montreal



Papineau South

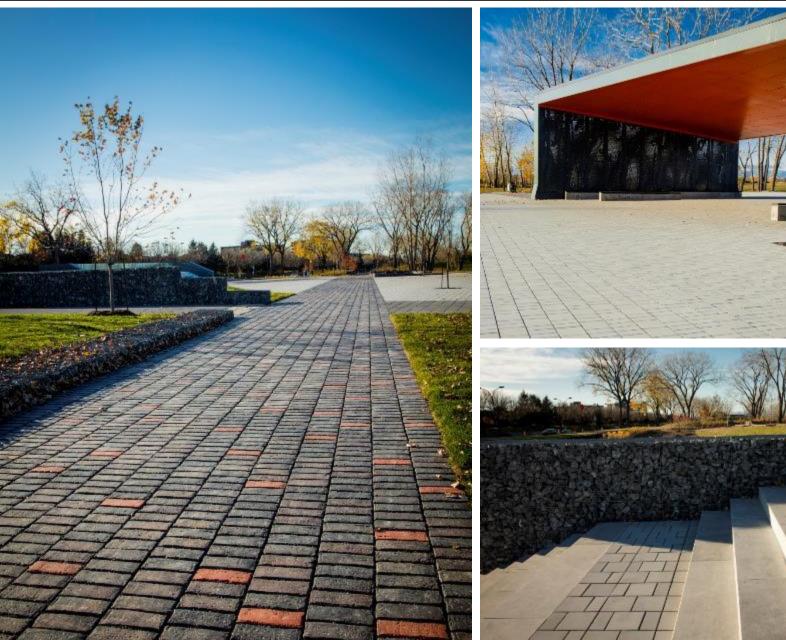


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Crédit photo: Aménagement Côté Jardin inc.

Papineau South





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Papineau North



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Iberville South



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Boisé East





PARC FRÉDÉRIC-BACI

Phase 2 : 2019 – 2021 : 29 hectares









Phase 2 under construction...



Completion – 2025 +



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PARC DU COMPLEKE ENVIRONNEMENTAL DE SAINT-MICHEL PLAN D'ENSEMBLE

Frédéric-Back Park...



... vast and spectacular...





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... technological and educational...











... fun and festive...



... a place for everyone...



... and even more !



A unique metamorphosis...

... for a one of a kind park

diane.martin@ville.montreal.qc.ca

Montréal

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