

# ***Haven Condominium Residences, Burlington, On***

## **Green Facts - Unique & Innovative Vertical GeoExchange Solution under Building Foot Print.**

**LOCATION :** 5317 Upper Middle Rd.  
Burlington, Ontario

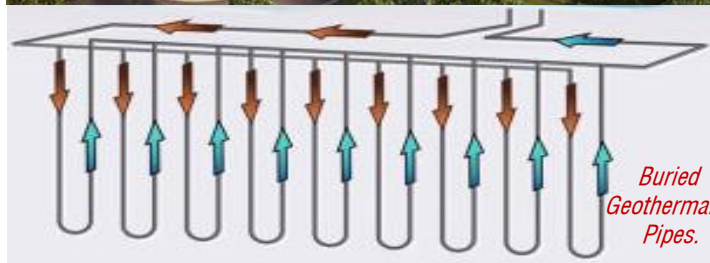
**CLIENT REFERENCE:** Golder Associates Ltd.  
2390 Argentia Road, Mississauga,  
Ontario.

**CONSULTANT:** **Geothermal**  
ABS GREEN INC.

Imran Majeed, P.Eng  
Consulting Engineer

**PROJECT SERVICES:**

- Geothermal System Design & Engineering.
- Sustainable & Energy Efficient Design
- System Integration with Building Mechanical Systems.



### **PROJECT DESCRIPTION:**

Hamilton-based development company New Horizon led by Jeff Paikin built a reputation since 1994, understand the importance of discipline, diligence and commitment to the community at large. New Horizon plans to build mid-rise new condominium buildings in Burlington which will be known as HAVEN CONDOMINIUM RESIDENCES. The building is approximately 188,026 Sq.ft., 4-storey high with 138 suites, amenity area, one level of underground parking and equipped with energy efficient geothermal system.

*Haven Project will also be a huge step towards low carbon footprint residential building.*

### **GEOHERMAL SYSTEM DESCRIPTION:**

Geothermal is a renewable energy source that comes naturally from the ground. It is highly sustainable and environmentally friendly because it reduces the use of fossil fuels (Natural Gas), thus reducing the release of harmful emissions that pollute the air.

*Geothermal free energy reduces Purchasers carbon foot print & annual energy cost.*

The geothermal system consists of a network of pipes planted deep into the ground where the earth temperature remains at a constant 10°C all year round.

*Glimmering in Green, CITY SQUARE fuses Geothermal Energy with Urban-Chic Design.*

Thermal fluid circulates through the geothermal pipes to heat or cool the building as needed, for all year round. To help maximize energy efficiency, each suite is equipped with individual thermostats and geothermal heat pumps to provide personalized climate control.

*ABS Green Inc., is retained by Golder Associates to provide Geothermal - System Design, Analysis & Engineering Services to their Clients.*

### **NOTABLE FEATURES:** The Geothermal System features include:

- Vertical geothermal system is provided under the building and fully coordinated with footings, plumbing piping, electrical duct bank, and shoring. This system support 100% building energy requirement including heating, cooling, snow melting, and fresh air cooling.
- Loops to be connected in reverse return arrangements to have better flow control.
- System flow in pipes has high turbulence effect to have better heat transfer.
- Geothermal System to be integrated with other mechanical systems.

*Geothermal heat pump system cut a building annual Energy use by 60-70%.*

The Entire GEOEXCHANGE Filed is financed by the New Horizon Developer to keep the ownership of Energy Field and to sell energy back to Condo Corporation which will be cheaper than applied utility rates.



## Geothermal Construction Photography



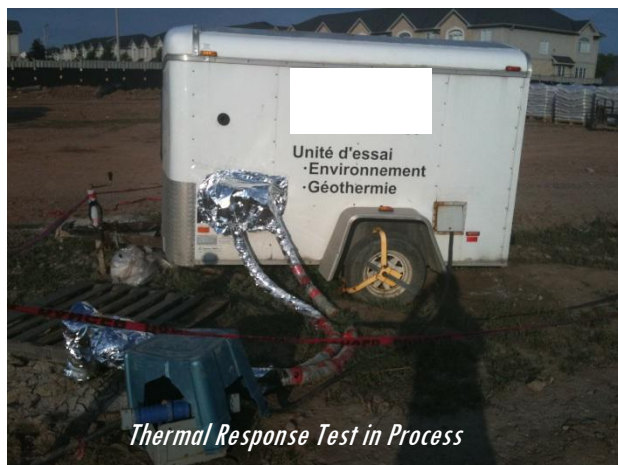
*Vertical Geothermal Capped Pipes*



*Vertical Geothermal Capped Pipes*



*HDPE Pipe Thermally Fused Joint*



*Thermal Response Test in Process*



*Water Spill During Drilling Process*



*Geothermal HDPE Pipe Coils*

Your Satisfaction.... is our Commitment...

### QUICK CONTACT

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