



GEOEXCHANGE SYSTEM INSTALLATION APPLICATION

Office Use Only

SECTION 1 – PROJECT SITE INFORMATION

City Project # _____

Project Address: (Provide at least one of the following) – Please note: it can not be an intersection

PROJECT ADDRESS (MUNICIPAL): _____

LEGAL DESCRIPTION PLAN: _____ BLOCK: _____ LOT(s): _____

SECTION 2 – APPLICANT INFORMATION

City Customer ID #: (if known) _____

APPLICANT / CONTACT NAME: _____

As the applicant I affirm:

- I am the registered owner of the above noted property
- I have entered into a binding agreement to purchase the above noted property with the registered owner(s).
- I have permission of the registered owner(s) of the above property to make the attached application for a Development Permit.
- I have permission of the registered owner(s) of the above noted property to make the attached application for a Combination Permit, which includes an application for a Development Permit and Building Permit.

BUSINESS NAME (IF APPLICABLE): _____

MAILING ADDRESS: _____ CITY: _____

PROVINCE: _____ POSTAL CODE: _____ EMAIL: _____

PHONE #: _____ FAX #: _____ CELL #: _____

Signature: _____ **Date:** _____

SECTION 3 – APPLICATION REQUIREMENTS

For Part 9 compliance, the following information must be submitted:

- Site plan, showing GeoExchange system layout along with existing & proposed underground services
- Bore field design, including # bores, bore depth, bore spacing, piping type, fluid type, & grout type
- Copy of Installer’s Canadian GeoExchange Coalition (CGC) or International Ground Source Heat Pump Association (IGSHPA) accreditation certificate
- Bore field design heating & cooling capacity (Peak Hour & Annual Rejected/Extracted Energy)
- Design must be compliant with CSA C448.2, and must be reviewed & sealed by an APEGA-licensed-engineer

For Part 6 compliance, the following information must be submitted:

- Site plan, showing GeoExchange bore field, along with existing & proposed underground services
- Bore field design, including # bores, bore depth, bore spacing, piping type, fluid type, & grout type
- Ground Thermal Conductivity test report (as per CSA C448.1)
- Copy of Installer’s Canadian GeoExchange Coalition (CGC) or International Ground Source Heat Pump Association (IGSHPA) accreditation certificate
- Design must be compliant with CSA C448.1. System must be designed & sealed by an APEGA-licensed-engineer.
- Supply ABC Schedules A-2, B-1, & B-2.

Personal Information required by City of Edmonton application forms is collected under authority of sections 33(a) and (c) of the Alberta Freedom of Information and Protection of Privacy Act. Personal information is collected for the purpose of administration and delivery of services related to Safety Codes and Development under applicable legislation and City Bylaws. Collection is authorized under 4(c) of the Protection of Privacy Act (POPA) and is managed and protected in accordance with the Act. The City intends to input the information into an automated system to generate content or make decisions, recommendations or predictions in accordance with the City of Edmonton Generative AI Standard. For questions about the collection, please contact Service Advisor, 780-442-5054, or eservices@edmonton.ca.



GENERAL INFORMATION REGARDING GEOEXCHANGE SYSTEM INSTALLATION APPLICATIONS

GeoExchange systems do not require a development permit as long as they meet the exemptions under Section 12 of the Edmonton Zoning Bylaw. However, the applicant is obligated to conform with other legislation, bylaws, or land title instruments such as the Municipal Government Act, the Edmonton Safety Code Permit Bylaw, or any caveats, covenants, or easements that might be attached to the Site (Section 5.2 of the Edmonton Zoning Bylaw). Additional requirements exist for projects within the River Valley and Ravine System (Section 14.1 of the Edmonton Zoning Bylaw).

This application form provides the City of Edmonton with sufficient information about the proposed GeoExchange system to ensure building code and industry best practice compliance of any buildings it may connect to.

FEES

No fees apply for this application.

HOW IS THIS APPLICATION ASSOCIATED WITH OTHER PERMITS?

This form needs to be attached to any building mechanical permit applications which will connect to this system. If no building is to be connected at this time, this form should be submitted for reference on future permit applications.

HOW MUST THIS APPLICATION BE SUBMITTED?

Applications can be made in person at 2nd floor, Edmonton Tower, 10111-104 Avenue NW, Edmonton, Alberta, T5J 0J4.