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# **Inventory of GeoExchange System Installations in B.C.**

Posted: August 2005

# INTRODUCTION

The following document is a listing of known commercial and multi-residential geexchange projects in the Province of British Columbia. Profiles range from projects that have been in existence and operation for up to 12 years, to those currently under design and development.

Participation in this directory is voluntary and as such, should not be considered as a complete representation of all existing and new installations in BC. Rather, the list provides an excellent sample cross-section of the various applications and variations of geexchange systems in BC. Additional submissions are always welcome at [GeoExchange BC](#).

This data base was commissioned by BC Hydro and GeoExchange BC.

## **BC GEOEXCHANGE SYSTEM INSTALLATION INDEX**

Effective: MARCH 23 2005

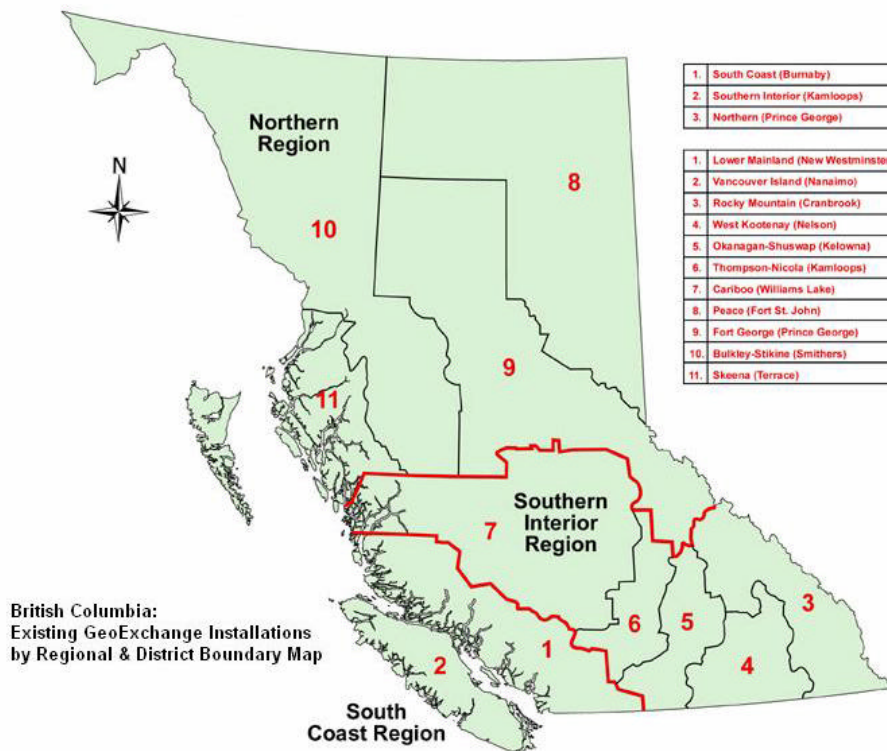
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## REGIONAL AND DISTRICT BOUNDARY MAP - BC

The district and regional location for each of the installations detailed in this report may be cross-referenced on the following map.



## **100 MILE HOUSE RECREATION CENTRE PROFILE**

1. **Contact:** Josh Dickerson
2. **Phone :** (250) 395-353
3. **Address and City:** 100 Mile House, BC
4. **Email:** jdickerson@icesports.com
5. **Region:** 2 – Southern Interior      **District:** 7 - Cariboo
6. **Building Use:** Arena Complex
7. **Date completed, or expected completion:** 2002
8. **Description of system:**
  - Closed Loop
  - Heating
  - Cooling
  - Water Heating
  - Vertical Piping
9. **System Size (Tons):** 100
10. **Status:** Operating

## ABBOTT HOUSE PROFILE

1. **Contact:** Jeff Maxwell, TRAK Canada **Phone:** (250) 762-8725
2. **Class:** Multi-Residential
3. **Address and City:** Kelowna BC **Email:** kcadieux@trakca.com
4. **Region:** 2- Okanagan **District:** 2- Okanagan Central
5. **Building Use:** Residential
6. **Date completed, or expected completion:** 2006
7. **Description of system:**
  - Closed Loop
  - Heating
  - Cooling
  - Water Heating
  - Vertical Piping
  - Other: Free cooling/free heating/by product utilization
    - Exhaust air heat recovery
    - Possibly solar heat recovery
    - Waste water heat recovery
    - TRAK EMS (Energy Management System)
8. **System Size (Tons):** 2-30 Ton Double Wall Domestic Hot Water Heat Pump  
2-30 Ton Single Wall Heat Pump
9. **Status:** Not operating, design and site start up.

## **APEGBC BUILDING**

1. **Contact:** Kurt Fu, APEGBC Administration
2. **Phone:** (888) 430-8035
3. **Address and City:** 200 - 4010 Regent Street , Burnaby BC V5C 6N2
4. **Email:** apeginfo@apeg.bc.ca
5. **Region:** 1 - South Coast                      **District:** 1- Lower Mainland
6. **Building Use:** Office/ Commercial
7. **Date completed, or expected completion:** 1996
8. **Description of system:**
  - Open Loop
  - Heating
  - Cooling
  - Water Heating
  - Vertical Piping
9. **System Size (Tons):** 70 Tons
10. **Status:** Operating

## **BEAVER FLATS PROFILE**

1. **Contact:** Tim Wake, Maintenance Manager
2. **Phone:** (604) 905-4688
3. **Address and City:** 2400 Dave Murray Place, Whistler V0N 1B2
4. **Email:** tim@whistlerhousing.ca
5. **Region:** 1 - South Coast                      **District:** 1 – Lower Mainland
6. **Building Use:** Housing
7. **Date completed, or expected completion:** Completed 2002
8. **Description of system:**
  - Closed Loop
  - Heating
  - Cooling
  - Water Heating
  - Vertical Piping
9. **System Size (Tons):** N/A
10. **Status:** Operating



## BEST WESTERN (KAMLOOPS) PROFILE

1. **Contact:** Jeff Maxwell, TRAK Canada- Engineer **Phone:** (250) 762-8725
2. **Class:** Commercial
3. **Address and City:** Kamloops, BC **Email:**  
kcadieux@trakca.com
4. **Region:** 2-Thompson **District:** 6-Nicola
5. **Building Use:** Hotel
6. **Date completed, or expected completion:** March 2005
7. **Description of system (Consists Of):**
  - Closed Loop
    - incoming open municipal water supply is lowered in temperature to increase heating cycle efficiency
  - Heating
  - Cooling
  - Water Heating (future phase)
  - Vertical Piping
  - Other: Exhaust air heat recovery and heat rejection
    - Large use of solar heat recovery
    - TRAK EMS (Energy Management System)
8. **System Size (Tons):** 4-30 Single Wall Heat Pump  
1-30 Double Wall Heat Recovery
9. **Status:** Recently started operating

## **BLUE RIVER RESORT PROFILE**

1. **Contact:** Bruce Hunt, Maintenance Manager
2. **Phone:** (1-800) 661-9170 toll-free
3. **Address and City:** PO Box 159, 1 Harwood Dr. Blue River, BC V0E 1J0
4. **Email:** www.wiegele.com
5. **Region:** 1 - South Coast **District:** 9 – Fort George
6. **Building Use:** Ski Lodge
7. **Date completed, or expected completion:** 1995
8. **Description of system:**
  - a. Closed Loop
  - b. Heating
  - c. Water Heating
  - d. Vertical Piping
9. **System Size (Tons):** 103
10. **Status:** Operating

## **BOB MCMATH SCHOOL PROFILE**

1. **Contact:** Gary McLean, Maintenance Manager
2. **Phone:** (604) 668-6030
3. **Address and City:** 4251 Garry St. Richmond BC
4. **Email:** Unknown
5. **Region:** 1 – South Coast                      **District:** 1 - Lower Mainland
6. **Building Use:** School
7. **Date completed, or expected completion:** 1998
8. **Description of system:**
  - Closed Loop
  - Heating
  - Cooling
  - Water Heating
  - Horizontal Piping
9. **System Size (Tons):** 108
10. **Status:** Operating

## **BOW MEL CHRYSLER PROFILE**

1. **Owner:** Bow-Mel Chrysler

**Installer:** Lockhart Industries – (250) 748-1731- <http://www.lockhart.ca>

2. **Phone:** (250) 748-8144

3. **Address and City:** 461 Trans-Canada Highway, Duncan, BC

4. **Email:** N/A

5. **Region:** 1 – South Coast **District:** 2 – Vancouver Island

6. **Building Use:** Car Dealership

7. **Date completed, or expected completion:** 2004

8. **Description of system:**

- Open Loop
- Heating
- Cooling
- Water Heating

9. **Manufacturer (if known):** Unknown

10. **System Size (Tons):** estimated 25 tons

11. **Status:** Operating

## **BRENTWOOD COLLEGE, MILLBAY PROFILE**

1. **Contact:** Tom Shadlock, Facilities Manager
2. **Phone:** Tel: (250) 743-5521 • Fax: (250) 743-2911
3. **Address and City:** 2735 Mount Baker Road, Mill Bay, BC V0R 2P1
4. **Email:** info@brentwood.bc.ca
5. **Region:** 1 – South Coast      **District:** 2 – Vancouver Island
6. **Building Use:** College Theatre
7. **Date completed, or expected completion:** 2002
8. **Description of system:**
  - Closed Loop– Ocean
  - Heating
  - Cooling
9. **Manufacturer (if known):** Waterfurnace
10. **System Size (Tons):** 70 Ton GeoExchange Ocean Loop
11. **Status -** Operating

## **BURNABY MOUNTAIN SECONDARY SCHOOL PROFILE**

1. **Contact:** Russ Sales, Maintenance Manager
2. **Phone:** (604) 664-8441
3. **Address and City:** 8800 Eastlake Drive Burnaby, BC V3J 7X5
4. **Email:** N/A
5. **Region:** 1 – South Coast **District:** 1 – Lower Mainland
6. **Building Use:** School
7. **Date completed, or expected completion:**
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Horizontal piping
9. **Manufacturer (if known):** N/A
10. **System Size (Tons):** N/A
11. **Status -** Operating

## **BURNSIDE/GORGE COMMUNITY CENTRE PROFILE**

1. **Contact:** Mark Williams- Owners Representative
2. **Class:** Institutional
3. **Phone:** (250) 995-3111
4. **Address and City:** 484 Cecilia Road, Victoria, B.C.
5. **Email:** mwilliams@hwt.bc.ca
6. **Region:** 1- B.C. **District:** 2-Victoria
7. **Building Use:** Community Activities
8. **Date completed, or expected completion:** March 2006
9. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Vertical piping
10. **System Size (Tons):** 6 Tons
11. **Status:** Under design

## **CIELO CONDOMINIUM, VANCOUVER ROFILE**

1. **Contact: Owner:** Delta Land Development  
Contractor - Earthsource Energy/Lyn Mueller\*
2. **Phone:** 1-800-736-7776\*
3. **Address and City:** 1201 W. Hastings, Coal Harbour, Vancouver
4. **Email:** [info@earthsource.ca](mailto:info@earthsource.ca)
5. **Region:** 1 – South Coast      **District:** 1 – Lower Mainland
6. **Building Use:** Condominium tower
7. **Date completed, or expected completion:** Under construction
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating
  - Vertical piping
9. **System Size (Tons):** Unknown
10. **Status:** Under Construction

## **CITY OF VANCOUVER WORKS BUILDING PROFILE**

1. **Contact:** Peter Bremner - Project Manager
2. **Phone:** (604)871-6720; (604)871-6200
3. **Address and City:** 701 National Avenue, Vancouver BC V6A 4L3
4. **Email:** kevin.ramsay@vancouver.ca
5. **Region:** 1- South Coast      **District:** 1– Lower Mainland
6. **Building Use:** City Works Yards
7. **Date completed, or expected completion:** March 2004
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Vertical piping
9. **Manufacturer (if known):** Waterfurnace
10. **System Size (Tons):** 50
11. **Status** - Operating

## COPCAN CONTRACTING, NANAIMO PROFILE

1. **Owner:** Copcan Contracting

**Installer:** Lockhart Industries installer- (250) 748-1731

2. **Phone:** (250) 754-7260

3. **Address and City:** 1920 Balsam Rd, Nanaimo, BC

4. **Email:** <http://www.lockhart.ca> [installer]

5. **Region:** 1 – South Coast

**District:** 2 – Vancouver Island

6. **Building Use:** Industrial Shop Complex c/w offices

7. **Date completed, or expected completion:** Completed in early 2002

8. **Description of system:**

- Open loop
- Heating
- Cooling
- Water heating

9. **System Size (Tons):** 35 [estimated]

10. **Status:** Operating



## DISCOVERY BAY RESORT PROFILE

1. **Contact:** Mr. Mike Agar, Point of View. Mr. Peter Bagdan, Discovery Bay Strata  
**Installer:** Jeff Maxwell- Engineer (kcadieux@trakca.com)
2. **Class:** Multi Residential, Commercial
3. **Phone:** (250) 258-8615
4. **Address and City:** 1088 Sunset Drive, Kelowna BC
5. **Region:**2- Okanagan                      **District:** 5- Regional District of Okanagan
6. **Building Use:** High-density Residential
7. **Date completed, or expected completion:** Winter 2002
8. **Description of system:**
  - Closed Loop
  - Incoming open municipal water supply is lowered in temperature to increase heating cycle efficiency
  - Heating, cooling
  - Dehumidification indoor/outdoor pool
  - Water heating
  - Vertical piping
  - Other: Exhaust air heat recovery/rejection
    - Building parking garage concrete as thermal capacitor
    - TRAK EMS/ KMC Control system
11. **System Size (Tons):** 3 X 120 ton Heat harvester Domestic Hot water heater  
10 X 30 ton Waky Furnace space/ventilator & pool heaters  
660 Ton Total for five buildings
12. **Status:** Operating

## EXECUTIVE INN, KAMLOOPS, PROFILE

1. **Engineer/ Contact:** Jeff Maxwell, TRAK Canada
2. **Class:** Commercial
3. **Phone:** (250) 762-8725
4. **Address and City:** Kamloops, BC                      **Email:** kcadieux@trakca.ca
5. **Region:** 2-Thompson    **District:** 6- Nicola
6. **Building Use:** Hotel
7. **Date completed, or expected completion:** March 2005
8. **Description of system:**
  - Closed loop
  - Incoming open municipal water supply is lowered in temperature to increase heating cycle efficiency
  - Heating
  - Cooling
  - Other: Exhaust air heat recovery and heat rejection

Large use of solar heat recovery

TRAK EMS (Energy Management System)
11. **System Size (Tons):** 4-30 Ton single wall heat pumps  
2-30 Ton double wall heat pump
12. **Status:** Operating

## FIRST LUTHERN CHURCH PROFILE

1. **Contact:** Stuart Yanow P.Eng. – Stantec Engineering - Kelowna
2. **Phone:** (250) 860-3225
3. **Address and City:** Lake Shore Drive Kelowna
4. **Email:** syanow@stantec.com
5. **Region:** 2 – Southern Interior **District:** 5 – Okanagan - Shuswap
6. **Building Use:** Church/School
7. **Date completed, or expected completion:** 2004
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
9. **System Size (Tons):** 60 + -
10. **Status -** Operating

## **FORT RODD HILL VISITOR'S CENTRE PROFILE**

**10. Engineer/ Contact:** Roy Gammer, P. Eng.

**11. Phone:** (250) 995-3111

**12. Address and City:** 603 Fort Rodd Hill, Victoria

**13. Email:** rgammer@hwt.bc.ca

**14. Region:** 1- South Coast

**District:** 2- Vancouver Island

**15. Building Use:** Visitors Centre

**16. Date completed, or expected completion:** Oct 2006

**17. Description of system:**

- Closed loop
- Heating
- Cooling
- Vertical piping

**18. System Size (Tons):** 15 tons

**19. Status:** Under design.

## **GLENEAGLES COMMUNITY CENTRE, VANCOUVER PROFILE**

1. **Contact:** Ken Clendenning- Operation's Manager
2. **Phone:** (604) 925-7226
3. **Address and City:** 6262 Marine Drive West Vancouver, BC V7W 2S5
4. **Email:** kclendenning@westvancouver.ca
5. **Region:** 1 – South Coast      **District:** 1 – Lower Mainland
6. **Building Use:** Community Center
7. **Date completed, or expected completion:** 2003
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Horizontal piping
9. **System Size (Tons):** 70 (estimated)
10. **Status:** Operating

## HALCYON MEADOWS PROFILE

1. **Contact:** Eric Van Maren, Developer
2. **Phone:** (604) 847-0702
3. **Address and City:** 46000 Thomas Road, Chilliwack, BC V2R 5W6
4. **Email:** ericv@vanmarengroup.com
5. **Region:** 1- South Coast                      **District:** 1- Tzeachten Indian Reserve #13
6. **Building Use:** Single family residences in a gated community.
7. **Date completed, or expected completion:** 25 homes in service. All 224 homes should be in service in 2008.
8. **Description of system:**
  - Open loop
  - Heating
  - Cooling
  - Water heating
  - Vertical piping

Halcyon Meadows consists of 224 detached homes in a gated community. Each home has a two-ton heat pump in the crawlspace which provides both heating and cooling. Each heat pump is connected to a common geo-thermal water main which loops the entire development. Three 90 feet deep wells and submersible pumps supply approximately 6 gallons per minute of ground water to each home via the geothermal water main. After the geothermal water has gone through the heat pump, the water is discharged into a soak-way trench located in the backyard of each home.

9. **System Size (Tons):** Each typical home has a 2 ton heat pump. Some larger homes have a 2.5-ton or 3-ton heat pump.



## **HERITAGE WOODS SECONDARY SCHOOL, PORT MOODY PROFILE**

1. **Contact:** Mr. Jim Domina, Facilities Manager
2. **Phone:** (604) 937-6784
3. **Class:** Institutional
4. **Region:** 1 – South Coast **District:** 1 – Lower Mainland
5. **Mechanical Consultant:** JM BEAN & CO. Ltd. Mr. Mladen Markovic, P.Eng.  
(604) 736-6724
6. **Address and City:** 1300 Port Moody, BC V3H 5K6
7. **Building Use:** Education Facility
8. **Date completed, or expected completion:** Sept 2004
9. **Description of system:**
  - closed loop
  - heating
  - cooling
  - horizontal piping
10. **System Size (Tons):** 85 Tons
11. **Status:** Operating

## **ICE BOX ARENA PROFILE**

1. **Contact:** The Ice Box Arena Corporation
2. **Phone:** (250) 377-4282
3. **Address and City:** 463 Dene Road Kamloops, BC V2H 1J1
4. **Email:** [info@iceboxarena.com](mailto:info@iceboxarena.com)
5. **Region:** 2 – Southern Interior      **District:** 5 – Thompson - Nicola
6. **Building Use:** Arena (Private)
7. **Date completed:** 2000
8. **Description of system:**
  - Open loop – well
  - Heating
  - Cooling
  - Water heating
9. **Manufacturer (if known):** Ice Kube Heat
10. **System Size (Tons):** 80 tons
11. **Status:** Operating

## INN AT BIGWHITE PROFILE

1. **Engineer/ Contact:** Jeff Maxwell, TRAK Canada                      **Phone:** (250) 762-8725
2. **Class:** Commercial
3. **Address and City:** Kelowna, BC                                      **Email:** kcadieux@trakca.com
4. **Region:** 2-Okanagan                      **District:** 5- Regional District of Kootenay Boundary
5. **Building Use:** Ski/ Resort Occupancy
6. **Date completed, or expected completion:** Winter 2005
7. **Description of system:**
  - Closed loop
  - Heating
  - Cooling, limited to summer season
  - Water heating
  - Vertical piping
  - Other: Solar and Heat recovery
8. **Manufacturer (if known):** Superior Heat Pump Inc.
9. **System Size (Tons):** 2-30 Ton [Pool & building heating] and 1-15 Ton domestic  
Hot water heat recovery
10. **Status:** Operating



## KITSILANO CONDO DEVELOPMENT PROFILE

1. **Contact:** Salt Lick Projects Ltd.
2. **Address:** 2211 East 4<sup>th</sup> St., Kitsilano, BC
3. **Phone:** N/A
4. **Email:** [http://www.greenbuildingsbc.com/new\\_buildings/case\\_studies/2211\\_West.pdf](http://www.greenbuildingsbc.com/new_buildings/case_studies/2211_West.pdf)
5. **Region:** 1 – South Coast    **District:** 1 – Lower Mainland
6. **Building Use:** Condominiums
7. **Date completed, or expected completion:** 1993
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating
  - Vertical piping
9. **System Size (Tons):** 150 [Estimated]
10. **Status:** Operating

## KRISTAL RESORT PROFILE

1. **Engineer/ Contact:** Stuart Yanow P.Eng. – Stantec Engineering - Kelowna
2. **Phone:** (250) 860-3225
3. **Address and City:** Predator Ridge, Vernon BC
4. **Email:** syanow@stantec.com
5. **Region:** 2 – Southern Interior   **District:** 5 – Okanagan - Shuswap
6. **Building Use:** Hotel, Spa and Wellness Centre
7. **Date completed, or expected completion:** In design.
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Vertical piping
9. **System Size (Tons):** 300 ton Geo-Thermal vertical borehole system
10. **Status:** Under construction

## LANGARA COLLEGE, VANCOUVER PROFILE

1. **Contact:** Jay Strachan - Director of Faculties & Purchasing
2. **Phone:** (604) 323- 5611
3. **Address and City:** 100 West 49th Avenue Vancouver, BC V5Y 2Z6
4. **Email:** jstrachan@langara.bc.ca
5. **Region:** 1 – South Coast **District:** 1 – Lower Mainland
6. **Building Use:** Institutional – Library
7. **Date completed, or expected completion:** early 2007
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating - unknown
  - Vertical piping
9. **System Size (Tons):** In design
10. **Status:** Not operating

## LIVING WATERS CHURCH, FORT LANGLEY PROFILE

1. **Contact:** Ken Gaglardi, Pastor & operations manager
2. **Class:** Institutional
3. **Phone:** (604) 888-3330
4. **Address and City:** 9095 Glover Road, Fort Langley
5. **Region:** 1- South Coast **District:** 1- Lower Mainland
6. **Building Use:** Church
7. **Date completed, or expected completion:** 2002
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Horizontal piping
9. **System Size (Tons):** 20 Tons
10. **Status:** Operating

## **MALASPINA COLLEGE SCIENCE BUILDING, NANAIMO REPORT**

1. **Contact:** Media Relations & Publications Office
2. **Phone:** (250) 740-6341
3. **Address and City:** 900 Fifth Street Nanaimo, BC V9R 5S5
4. **Email:** N/A
5. **Region:** 1 – South Coast     **District:** 1 – Lower Mainland
6. **Building Use:** University-College
7. **Date completed, or expected completion:** N/A
8. **Description of system:** New building, suggested GeoExchange
9. **System Size (Tons):** N/A
10. **Status:** Not operating

## MASON BLOCK PROFILE

1. **Owner:** Ken Mason

**Engineer/** Jeff Maxwell – Trak Canada

2. **Phone:** (250) 762-8725 (Mr. Ken Mason– Owner)

3. **Address and City:** Vancouver, B.C.

4. **Email:** c/o Trak - kcadieux@trakca.com

5. **Region:** 1 – South Coast      **District:** 1 – Lower Mainland

6. **Building Use:** Commercial & High-Density residential

7. **Date completed, or expected completion:** March 2006

8. **Description of system:**

- Closed loop
- Heating / cooling
- Water heating
- Vertical piping
- Other – solar/waste water recovery/heat recovery/etc;

Call for [www.trakca.com](http://www.trakca.com) details

9. **System Size (Tons):** 45 – Call for details [1@30 t / 1@15t]

10. **Status -** Not operating

## **MISSION OFFICE CENTER, KELOWNA PROFILE**

1. **Contact:** Ice Kube Heat (Installer)
2. **Phone:** (204) 338-5823
3. **Address and City:** City of Kelowna
4. **Email:** wlehmann@icekubesystems.com
5. **Region:** 2 – Southern Interior **District:** 5 – Okanagan - Shuswap
6. **Building Use:** Office – Medical Building
7. **Date completed, or expected completion:** 2003
8. **Description of system:**
  - Open loop
  - Heating
  - Cooling
  - Horizontal piping
9. **System Size (Tons):** 120
10. **Status:** Operating

## **MISSION SPORTS CENTRE, KELOWNA PROFILE**

1. **Contact:** Leo Mariotto owner representative; (604) 298-6444  
Consultant: Stuart Yanow P. Eng. (Stantec Engineering – Kelowna)
2. **Phone:** (250) 860-3225
3. **Address and City:** Gordon Drive, Kelowna BC
4. **Email:** syanow@stantec.com
5. **Region:** 2 – Southern Interior    **District:** 5 – Okanagan - Shuswap
6. **Building Use:** 2 Ice Arenas, 2 Indoor soccer fields concession, Physiotherapy centre, Restaurant and Gym
7. **Date completed, or expected completion:** March 2005
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating
  - Vertical piping
9. **System Size (Tons):** 150 Ton hybrid geothermal vertical borehole, 50 Tpm  
GeoExchange
10. **Status:** Operating

## **NATURE CENTRE, MASSET QUEEN CHARLOTTES PROFILE**

1. **Contact:** Margo Herne, Facilities Manager
2. **Phone:** (250) 626-5015
3. **Address and City:** 1860 Trumpeter Drive, Masset, Queen Charlottes
4. **Email:** delkatla@island.net
5. **Region:** 1 – South Coast      **District:** 2 – Vancouver Island
6. **Building Use:** Nature/Educational Center
7. **Date completed, or expected completion:** 2002
8. **Description of system:**
  - Open loop – Well
  - Heating
9. **System Size (Tons):** 5 Ton
10. **Status -** operating [intermittently] when water is available

## **NESTOR SCHOOL PROFILE**

1. **Contact:** Jim Domina, Facilities Manager
2. **Phone:** (604) 937-6784
3. **Address and City:** 1266 Nestor, Coquitlam BC
4. **Email:** jdomina@43.bc.ca
5. **Region:** 1 – South Coast **District:** 1 – Lower Mainland
6. **Building Use:** School
7. **Date completed, or expected completion:** 2000
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating
  - Vertical piping
9. **System Size (Tons):** 40 Ton



## **NK' MIP INTERPRETIVE CENTER PROFILE**

1. **Engineering / Contact:** VEL Engineering, Vladimir Mikler - 305-625 Howe St.  
Vancouver, B.C.
2. **Phone:** (604) 687-1800
3. **Address and City:** Osoyoos, BC
4. **Email:** vmikler@veleng.com
5. **Region:** 2 – Southern Interior   **District:** 5 – Okanagan - Shuswap
6. **Building Use:** Interpretative Center
7. **Date completed, or expected completion:** Unknown
8. **Description of system** – Considering Geo; decision pending as of March 2005.
9. **Any additional comments by the person who completed the entry:** Go to  
<http://www.veleng.com/Other%20Projects.htm>

## **OCEAN FARMS PROFILE**

**1. Owner:** Ocean Farms (owner)

Contractor: Lockhart Industries installer [(250) 748-1731]

**2. Phone:** (250) 748-2103

**3. Address and City:** 2654 Corfield Highway, Duncan, BC V0R2C0

**4. Email:** <http://www.lockhart.ca>

**5. Region:** 1 – South Coast

**District:** 2 – Vancouver Island

**6. Building Use:** Aquaculture

**7. Date completed, or expected completion:** N/A

**8. Description of system:**

- Open loop
- Heating
- Cooling
- Water heating

**9. System Size (Tons):** 20

**10. Status -** Operating

## OKANAGAN GEOTHERMAL WAREHOUSE PROFILE

1. **Contact:** Jim Croken, Owner Operator, Okanagan Geothermal Ltd.
2. **Class:** Commercial
3. **Phone:** (250) 838-0809
4. **Address and City:** Enderby
5. **Email:** jcroken@telus.net
6. **Region:** 2- North Okanagan                      **District:** 5- N.O.R.D.
7. **Building Use:** Multi-use Warehouse
8. **Date completed, or expected completion:** July 2005
9. **Description of system:**
  - Open loop
  - Heating
  - Cooling
  - Water heating
  - Piping
  - Other: In floor Heating/cooling
10. **System Size (Tons):** 40 Tons
11. **Status:** Pending

## OLIVER CURLING CLUB PROFILE

1. **Contact:** Oliver Curling Club
2. **Phone:** (250) 498-2244
3. **Address and City:** 7535-36 2nd Ave., R.R. #3 S2 C34 RR#3 Oliver, BC, V0H 1T0
4. **Email:** N/A
5. **Region:** 2 – Southern Interior      **District:** 5 – Thompson - Nicola
6. **Building Use:** Curling Club
7. **Date completed, or expected completion:** 1994
8. **Description of system:**
  - Open loop – Well
  - Heating
  - Cooling
  - Water heating
9. **System Size (Tons):** 80
10. **Status:** Operating

## ORCHARDS WALK PROFILE

1. **Contact:** David Zigelman/ Kevin Ryan- Owner's Representatives  
**Engineer/ Contact:** Jeff Maxwell- TRAK Canada- kcadieux@trakca.com
2. **Phone:** (416) 440-0095
3. **Class:** Multi-Residential
4. **Address and City:** Kamloops, BC **Email:** Not Available
5. **Region:** 2-Thompson **District:** 6- Nicola
6. **Building Use:** Residential with community centre, skating and pool
7. **Date completed, or expected completion:** 2009
8. **Description of system :**
  - Closed loop
  - Heating, cooling
  - Water heating
  - Vertical piping
  - Horizontal piping
  - Other: waste water heat recovery  
Solar heat recovery  
Exhaust air heat recovery and heat rejection  
Free cooling/free heating/by product utilization  
TRAK EMS (Energy Management System)
9. **System Size (Tons):** 30-30 Ton Domestic Hot Water Heat Pump  
20-30 Ton Single Wall Heat Pump

## OUTBACK RESORT PROFILE

1. **Engineer/ Contact:** Jeff Maxwell- TRAK Canada      **Phone:** (250) 762-8625
2. **Class:** Multi-residential      **Building Use:** Resort Occupancy
3. **Address and City:** Vernon, BC      **Email:** kcadieux@trakca.com
4. **Region:** Okanagan      **District:** North Okanagan
5. **Date completed, or expected completion:** 2006
6. **Description of system:**
  - Closed loop
  - Heating, cooling
  - Water heating
  - Vertical piping
  - Horizontal piping, horizontal water distribution also performs as horizontal heat recovery source
  - Other: free cooling/free heating/by product utilization
    - District system that distributes heated and chilled water to remote villas from heat pump in central plant
    - TRAK EMS (energy management system)
7. **System Size (Tons):** 750 ton distribution heat pump system
8. **Status :** not operating

## PACIFIC GARDENS PROFILE

1. **Contact:** Susana Michaelis- Owner's Representative
2. **Phone:** (250) 753-4892
3. **Address and City:** Nanaimo, BC
4. **Email:** [info@ecoconnections.ca](mailto:info@ecoconnections.ca)
5. **Region:** 1– South Coast      **District:** 2– Vancouver Island
6. **Building Use:** Town houses
7. **Date completed, or expected completion:** N/A
8. **Description of system:** New building, suggested GeoExchange
9. **System Size (Tons):** N/A
10. **Status -** Not operating



## PEACE ARCH VISITOR CENTER PROFILE

1. **Engineer/ Contact:** VEL Engineering, Vladimir Mikler
2. **Phone:** (604) 687-1800
3. **Address and City:** Surrey BC
4. **Email:** vmikler@veleng.com
5. **Region:** 1 – South Coast **District:** 1 – Lower Mainland
6. **Building Use:** Commercial
7. **Date completed, or expected completion:** N/A
8. **Description of system – considering Geo**

## **POET'S COVE, SOUTH PENDER PROFILE**

1. **Contact:** Steig Liljedahl (Mechanical Manager)
2. **Phone:** (1-888) 512-7638
3. **Address and City:** 9801 Spalding Rd., South Pender Island V0N 2M3
4. **Email:** sli@poetscove.com
5. **Region:** 1 – South Coast                      **District:** 2 – Vancouver Island
6. **Building Use:** Resort
7. **Date completed, or expected completion:** 2003
8. **Description of System:**
  - Open loop – ocean
  - Heating
  - Cooling
  - Water heating
9. **Status - Operating**

## QUARRY STONE LAKESIDE VILLAS, MARA PROFILE

1. **Contact:** Jim Croken, Owner Operator, Okanagan Geothermal Ltd.
2. **Class:** Commercial
3. **Phone:** (250) 838-0809      **Address and City:** Mara, BC
4. **Email:** jcroken@telus.net
5. **Region:** 2- Southern Interior      **District:** 5-N.O.R.D.
6. **Building Use:** Recreational Homes
7. **Date completed, or expected completion:** July 2003
8. **Description of system:**
  - Open loop
  - Heating
  - Cooling
  - Water heating
  - Other: In floor heating/cooling, fan coil heating/cooling
9. **System Size (Tons):** 34 Tons
10. **Status:** Operating

## RIVER STREET WATER TREATMENT, KAMLOOPS PROFILE

1. **Engineer/ Contact:** Stuart Yanow P.Eng. – Stantec Engineering - Kelowna
2. **Phone:** (250) 860-3225
3. **Address and City:** River Street, City of Kamloops
4. **Email:** syanow@stantec.com
5. **Region:** 2 – Southern Interior      **District:** 5 – Thompson - Nicola
6. **Building Use:** Water Treatment Plant
7. **Date completed, or expected completion:** Completion summer 2005
8. **Description of system**
  - **Other:** Open system using river water for heating & cooling
9. **System Size (Tons):** 170
10. **Status:** Soon to be operating



## **RUTLAND ELEMENTARY SCHOOL PROFILE**

1. **Engineer/ Contact:** Stuart Yanow P.Eng. – Stantec Engineering - Kelowna
2. **Phone:** (250) 860-3225
3. **Address and City:** Webster & Craig Rd., Kelowna
4. **Email:** syanow@stantec.com
5. **Region:** 2 – Southern Interior      **District:** 5 – Okanagan - Shuswap
6. **Building Use:** School
7. **Date completed, or expected completion:** 2003
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Horizontal Ground Loop System
9. **System Size (Tons):** 50
10. **Status:** Operating

## **SALTSPRING ELEMENTARY SCHOOL PROFILE**

1. **Contact:** Maintenance Manger
2. **Phone:** (250) 537-5548
3. **Address and City:** 122 Rainbow Road, Salt Spring Island, BC V0S 1E0
4. **Fax:** (250) 537-4200
5. **Region:** 1 – South Coast      **District:** 2 – Vancouver Island
6. **Building Use:** School
7. **Date completed, or expected completion:** 2001
8. **Description of system:**
  - Closed loop
  - Heating
  - Water heating
  - Horizontal piping
9. **System Size (Tons):** 30 Tons
10. **Status:** Operating

## SARSONS CORNER PROFILE

1. **Engineer/Contact:** Jeff Maxwell- TRAK Canada      **Phone:** (250) 762-8725

2. **Class:** Multi residential

3. **Address and City:** Kelowna, BC

**Email:** kcadieux@trakca.com

4. **Region:** 2- Southern Interior

**District:** 5- Okanagan-Shuswap

5. **Building Use:** Residential

6. **Description of system:**

- Closed loop
- Heating, cooling
- Water heating
- Vertical piping
- Other: Free cooling/free heating/by-product utilization

Possibly solar heat recovery

Waste water heat recovery

Exhaust air heat recovery and heat rejection

TRAK EMS (Energy Management System)

7. **System Size (Tons):** 2-30 Ton Domestic Water Heat Pump

3-30 Ton Single Wall Heat Pump

8. **Status:** Not operating, In design phase and site start-up

## **SATURNA ISLAND COMMUNITY CENTER PROFILE**

1. **Installer/ Contact:** Earthsource Energy/Lynn Mueller\*
2. **Phone:** 1-800-736-7776 \*
3. **Address and City:** Saturna Island
4. **Email:** [info@earthsource.ca](mailto:info@earthsource.ca)
5. **Region:** 1 – South Coast      **District:** 2 – Vancouver Island
6. **Building Use:** Community Center
7. **Date completed, or expected completion:** 2004/5
8. **Description of system:**
  - Closed loop
  - Heating
  - Water heating
  - Horizontal piping
9. **System Size (Tons):** 30 Tons



## SEAVIEW SCHOOL PROFILE

1. **Contact:** Jim Domina, Facilities Manager
2. **Phone:** (604) 937-6784
3. **Address and City:** 1215 Cecile Ave, Coquitlam B.C.
4. **Email:** jdomina@sd43.bc.ca
5. **Region:** 1 - South Coast     **District:** 1 – Lower Mainland
6. **Building Use:** School
7. **Date completed, or expected completion:** 2000
8. **Description of system:**
  - Closed loop 28 wells x 208 feet
  - Heating
  - Vertical piping
9. **System Size (Tons):** 30 Tons
10. **Status -** Operating

## SERENE LEA FARMS PROFILE

1. **Installer/ Contact:** Jim Croken, Owner/Operator, Okanagan Geothermal
2. **Class:** Agriculture
3. **Phone:** (250) 838-0809 **Address and City:** Mara, B.C.
4. **Email:** jjcroken@telus.net
5. **Region:** 2-Southern Interior **District:** 5- Okanagan-Shuswap
6. **Building Use:** Dairy Operation
7. **Date completed, or expected completion:** 2003
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Dehumidification
  - Water heating
  - Milk Cooling
  - Other: In floor heating/cooling, fan coil heating/cooling
9. **System Size (Tons):** 40 tons
10. **Status:** Operating



## **SHOAL POINT, FISHERMANS WARF, VICTORIA PROFILE**

1. **Contact:** John Cardiff – Building Manager [(250) 883-3248]
2. **Phone:** (250) 388-3922 - Facilities Manager: (250) 389-888 (Shoal Point Building)
3. **Address and City:** 21 - 21 Dallas Road Victoria, BC V8V 4Z9
4. **Email:** [info@shoalpoint.com](mailto:info@shoalpoint.com)
5. **Region:** 1 – South Coast **District:** 2 – Vancouver Island
6. **Building Use:** Condominiums/ Office space
7. **Date completed, or expected completion:** 2003
8. **Description of system:**
  - Open loop
  - Heating
  - Cooling
  - Water heating
9. **System Size (Tons):** N/A
10. **Status** - Operating (Hybrid System)

## SK'ELEP SCHOOL OF EXCELLENCE, KAMLOOPS PROFILE

1. **Engineer/ Contact:** Todd McGaw P.Eng. – Stantec Engineering - Kamloops
2. **Phone:** (250) 374-0311
3. **Address and City:** site - 315 Yellowhead, Hwy Kamloops, BC V2C 1H1
4. **Email:** tmcgaw@stantec.com
5. **Region:** 2 – Southern Interior      **District:** 5 – Thompson - Nicola
6. **Building Use:** School
7. **Date completed, or expected completion:** 2002
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating
  - Vertical piping
9. **System Size (Tons):** 60
10. **Status:** Operating

## **SMITHERS ARENA BUSINESS CASE PROFILE**

1. **Engineer/ Contact:** Lions Gate Consulting
2. **Phone:** (604) 733-5672
3. **Address and City:** Smithers, BC
4. **Email:** steve@lgc-inc.com
5. **Region:** 3 - Northern **District:** 10 – Bulkley - Stikine
6. **Building Use:** Arena Complex
7. **Date completed, or expected completion:** Under design/ consideration
8. **Status:** Not operating





## STO-LO NATION MEDICAL BUILDING PROFILE

1. **Class:** Commercial
2. **Address and City:** 7201 Vedder Chilliwack, BC
3. **Region:** 1- South Coast                      **District:** 1- Lower Mainland
4. **Building Use:** Health Clinic and Administration
5. **Date completed, or expected completion:** Sept 2004
6. **Description of system:**
  - Open loop
  - Heating
  - Cooling
  - Water heating
  - Other: Heat exchanger providing additional 8 tons of cooling
7. **System Size (Tons):** 30 tons
8. **Status:** Operating

## SUMMERLAND RESORT PROFILE

1. **Engineer/ Contact:** Jeff Maxwell- TRAK Canada      **Phone:** (250) 762-8725
2. **Class:** Commercial
3. **Address and City:** 408-611 Alexander Street, Vancouver
4. **Email:** kcadieux@trakca.com
5. **Region:** 2- Southern Interior      **District:** 5- Okanagan-Shuswap
6. **Building Use:** Resort Occupancy
7. **Date completed, or expected completion:** Summer 2005
8. **Description of system:**
  - Closed loop
  - Heating and cooling
  - Water heating
  - Vertical piping
  - Other: waste water HR (Heat Recovery)
    - Possible Solar HR, depending on fuel supply
    - Exhaust air heat recovery and heat rejection
    - Free cooling, free heating/ by product
    - TRAK EMS- (Energy Mgmt. Control System)
9. **System Size (Tons):** 4-30 ton domestic hot water heat pump  
2-30 ton single wall heat pumps
10. **Status:** Not operating, Under construction, 70% complete

## SUN RIVER RESORT COMMUNITY PROFILE

1. **Contact:** Terasen Utility Services
2. **Phone:** Richard Marier - 604-575-3404
  
3. **Address and City:** 1 Sun Rivers Drive, Kamloops, BC
4. **Email:** syanow@stantec.com
5. **Region:** 2 – Southern Interior      **District:** 5 – Thompson - Nicola
6. **Building Use:** Multi-residential
7. **Date completed, or expected completion:** Completion/ongoing
8. **Description of system**

Individual drilled vertical closed loop systems.
9. **Status –** Operational

## SUNDANCE LODGE RESORT PROFILE

1. **Engineer/ Contact:** Jeff Maxwell- TRACK Canada **Phone:** (250) 762-8725
2. **Address and City:** 201 – 1449 St. Paul St., Kelowna BC
3. **Email:** kcadieux@trakca.com
4. **Region:** 2 – Southern Interior **District:** 5 – Okanagan - Shuswap
5. **Building Use:** Ski Resort – resort occupancy
6. **Date completed, or expected completion:** Winter 2004
7. **Description of system:**
  - Closed loop
  - Heating
  - Cooling – limited to summer season
  - Water heating
  - Vertical piping
  - Other- solar/waste water recovery/heat recovery/etc, call for details
8. **System Size (Tons):** 200 ton heat pumps[various configurations], call [www.trakca.com](http://www.trakca.com)
9. **Status:** Operating

## TEKMAR CONTROL SYSTEMS PROFILE

1. **Owner:** Don Gibbs (250) 545-7749

**Engineer:** Stuart Yanow Stantec

2. **Phone:** (250) 860-3225

3. **Address and City:** 5100 Silverstar Rd. Vernon B.C.

4. **Email:** syanow@stantec.com

5. **Region:** 2 – Southern Interior **District:** 5 – Okanagan - Shuswap

6. **Building Use:** Commercial and Manufacturing Facility

7. **Date completed, or expected completion:** 2003

8. **Description of system:**

- Closed loop
- Heating
- Cooling
- Horizontal piping

9. **System Size (Tons):** 60

10. **Status -** Operating

## TELKWA FAITH REFORMED CHURCH, TELKWA, PROFILE

1. **Contact:** Telkwa Faith Reformed Church
2. **Address and City:** Hwy 16, Telkwa
3. **Region:** 3- Rocky Mountain                      **District:** 10- Skeena
4. **Building Use:** Church
5. **Date completed, or expected completion:** Feb 2005
6. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Horizontal piping
7. **System Size (Tons):** 15 Tons
8. **Status:** Operating

## THE COVE BEACH RESORT PROFILE

1. **Engineer/ Contact:** Jeff Maxwell- TRAK Canada      **Phone:** (250) 762 - 8725
2. **Address and City:** 4205 Gellatly Rd., Westbank, BC
3. **Email:** kcadieux@trakca.com
4. **Region:** 2 – Southern Interior      **District:** 5 – Okanagan - Shuswap
5. **Building Use:** Commercial / Multi-Residential – Resort occupancy
6. **Date completed, or expected completion:** In construction - 2006, 15% done
7. **Description of system:**
  - Closed loop
  - Heating / cooling
  - Water heating
  - Vertical piping
  - Other – solar/waste water recovery/heat recovery/etc;  
call for [www.trakca.com](http://www.trakca.com) details
8. **System Size (Tons):** 16 x 30 Ton heat pumps[various configurations [call [www.trakca.com](http://www.trakca.com)]
9. **Status:** Not operating; Under construction till 2006

## **WEST VANCOUVER COMMUNITY COMPLEX PROFILE**

1. **Contact:** Ken Clendenning, Operations Manager
2. **Phone:** (604) 925-7226
3. **Address and City:** 786 22nd Street West Vancouver, BC V7V 4B9
4. **Email:** kclendenning@westvancouver.ca
5. **Region:** 1 – South Coast **District:** 1-Lower Mainland
6. **Building Use:** Ice Rink, Swimming Pool
7. **Date completed, or expected completion:** 2007 in progress
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating
  - Vertical piping
9. **System Size (Tons):** 150 - 80 boreholes
10. **Status -** Operating

## WESTWOOD SCHOOL, PORT COQUITLAM PROFILE

1. **Contact:** Jim Domina, Facilities Manager
2. **Phone:** (604) 937-6784
3. **Address and City:** 3610 Hasting St., Port Coquitlam
4. **Email:** jdomina@sd43.bc.ca
5. **Region:** 1 – South Coast      **District:** 1 – Lower Mainland
6. **Building Use:** School
7. **Date completed, or expected completion:** 2002
8. **Description of system:**
  - Closed loop
  - Heating
  - Cooling
  - Water heating
  - Horizontal piping
  -
9. **System Size (Tons):** 30
10. **Status:** Operating