



REGIONAL DISTRICT OF CENTRAL KOOTENAY

**Area A Economic Development Commission
OPEN MEETING AGENDA**

1:00 p.m. PST

2:00 p.m. MST

Tuesday, January 28, 2025

Location: Hybrid Model – In-person and Remote

To promote openness, transparency and provide accessibility to the public we provide the ability to attend all RDCK meetings in-person or remote.

Join by Video:

<https://rdck-bc-ca.zoom.us/j/93079902753?pwd=1DnbzulpvRtHNZyPqip7NKEtfkguO3.1>

Join by Phone:

1-778-907-2071 Canada Toll-free

Meeting Number (access code): 930 7990 2753

Meeting Password: 881036

In-Person Location: Kokanee Springs Resort - lower level of the 1st Lodge building at the rear of the building, 16082 Woolgar Road, Crawford Bay, BC

COMMITTEE MEMBERS

Director G. Jackman	Area A
Commissioner G. MacMahon	Kootenay Bay
Commissioner G. Medhurst	Crawford Bay – Chair
Commissioner P. Cullinane	Boswell
Commissioner T. Toole	Crawford Bay/Boswell
Commissioner R. Bertram	Crawford Bay/Gray Creek

STAFF PRESENT

Robin Baril	Meeting Coordinator
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____ out of ____ voting Commission/Committee members were present – quorum was met.

1. CALL TO ORDER

Commissioner _____ called the meeting to order at [Time] p.m.

2. ELECTION OF THE AREA A ECONOMIC DEVELOPMENT COMMISSION (EDC) CHAIR

1. Call for Nominations (3 times)
2. Opportunity for Candidates to Address the Committee (two minutes per address)
3. Vote by Secret Ballot
4. Declaration of Elected or Acclaimed Area A EDC Chair
5. Destroy Ballots

RECOMMENDATION

That the ballots used in the election of the Area A EDC Chair be destroyed.

3. TRADITIONAL LANDS ACKNOWLEDGEMENT STATEMENT

We acknowledge and respect the Indigenous peoples within whose traditional lands we are meeting today.

4. ADOPTION OF AGENDA

RECOMMENDATION

The agenda for the January 28, 2025, Area A Economic Development Commission meeting, be adopted as circulated.

5. RECEIPT OF MINUTES

The December 13, 2024 Area A Economic Development Commission minutes, have been received.

6. NEW BUSINESS

6.1 Kootenay Lake Ferry Strike

Chair Medhurst requested a discussion regarding the ongoing Ferry Strike.

6.2 Economic Development – Area A Service S107 Draft Budget Discussion

At the request of Director Jackman to discuss the 2025 Service S107 draft budget with consideration to budget amounts transferred to Service S108 in 2024.

7. OLD BUSINESS

6.1 Kootenay Lake Geothermal Funding Request

Presentation of the funding request and attached background documentation on the Kootenay Lake Geothermal project, has been received

8. PUBLIC TIME

The Chair will call for questions from the public at [Time] p.m.

9. NEXT MEETING

The next Area A Economic Development Commission meeting is scheduled for March 11, 2025 at 2:00 MST.

10. ADJOURNMENT

RECOMMENDATION

The Area A Economic Development Commission meeting be adjourned at [Time] p.m.



REGIONAL DISTRICT OF CENTRAL KOOTENAY

AREA A ECONOMIC DEVELOPMENT COMMISSION OPEN MEETING MINUTES

1:00 p.m. PST

2:00 p.m. MST

Friday, December 13, 2024

Location: Hybrid Model – In-person and Remote

WEBEX REMOTE MEETING INFO

To promote openness, transparency and provide accessibility to the public we provide the ability to attend all RDCK meetings in-person or remote.

Join by Video:

<https://rdck-bc-ca.zoom.us/j/97297076614?pwd=bxVMSQ3BXj6qTfaecCAexNyToM66lh.1&from=addon>

Join by Phone:

+1-604-449-3026 Canada Toll (Vancouver)

Meeting Number (access code): 972 9707 6614

Meeting Password: 116001

In-Person Location: Kokanee Springs Resort – lower level of the 1st Lodge building at the rear of the building, 16083 Woolgar Road, Crawford Bay, BC

COMMISSION MEMBERS PRESENT

Commissioner G. Medhurst	Crawford Bay – Chair
Director G. Jackman	Area A
Commissioner P. Cullinane	Boswell
Commissioner G. MacMahon	Kootenay Bay
Commissioner R. Bertram	Crawford Bay/Gray Creek

COMMISSION MEMBERS ABSENT

Commissioner T. Toole	Crawford Bay/Boswell
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STAFF PRESENT

R. Baril	Meeting Coordinator
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GUEST

Leah Kleinhans	Economic Action Partnership
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5 out of 6 voting Commission/Committee members were present – quorum was met.

1. CALL TO ORDER

Chair Medhurst called the meeting to order at 2:03 p.m.

2. TRADITIONAL LANDS ACKNOWLEDGEMENT STATEMENT

We acknowledge and respect the Indigenous peoples within whose traditional lands we are meeting today.

3. ADOPTION OF AGENDA

Moved and seconded,
AND Resolved

The agenda for the December 13, 2024 Area A Economic Development Commission meeting, be adopted as circulated.

Carried

4. RECEIPT OF MINUTES

The September 10, 2024 Area A Economic Development Commission minutes, with the revision of Item 5.1 Kootenay Lake Geothermal Project Update have been attached.

5. OLD BUSINESS

5.1 Kootenay Lake Geothermal Project Update

Commissioner MacMahon mentioned that the minutes from September 10, 2024, Item 5.1 referenced drilling and testing, and he clarified that the Geothermal Project has not reached that level in the project. The current exploration work has expanded to include area on the other side of the lake, specifically around Ainsworth. The work slated for phase 4 is wrapping up.

Geochemical analysis is being tested at University of Calgary and University of Ottawa. Funding support for phase 4 to complete the Electrical Resistivity Tomography (ERT) work was not secured, so a magnetometer survey is being completed instead in Riondel, which a drone will be used to complete before December 24, 2024. Commissioner MacMahon reviewed funding support for this project going forward and answered the Commission's questions.

BC Hydro is moving ahead in developing 10 new sites for wind power, one area identified for a wind site location is the ridge above Duck Creek.

Early in September 2024, Fortis opened a request for expression of interest period that organizations could submit applications for new power until November 26, 2024. The Kootenay Lake Geothermal Project team has put together an expression of interest application with letters of support from Geoscience BC, Geothermal Canada, Member of Legislative Assembly, Member of Parliament and Yaqan Nukiy.

Commissioner MacMahon has declared a conflict of interest due to being a member of the Kootenay Lake Geothermal Project team and will not partake in the following vote.

Moved and seconded,
And resolved:

That Area A Economic Development Commission supports a \$10,000 allocation to the draft 2025 Financial Plan for the South Kootenay Lake Community Services Society to support phase 5 of the Kootenay Lake Geothermal Project.

Carried

5.2 For Information – Imagine Kootenay Program

Focus on investment opportunities in the Kootenays and how these can be showcased on the website. Website has been redone, and the focus is now on building up the statistics to show on the Imagine Kootenay landing page for Creston Valley Kootenay Lake. This work should be completed by the end of January.

Leah Kleinhans is beginning to plan a lunch and learn for the Chamber of Commerce, local realtors, and business owners to highlight how Imagine Kootenay website can increase the visibility for businesses looking for investors or to sell. Social Media plan is being developed to launch in 2025.

Leah answered the Commission's questions.

5.3 For Information – “eastshore.life”

Director Jackman would like the data held in the eastshore.life database to be resurrected. The Commission would like organizations to be brought in, to update this project so that the information is verified for public use. Parsing out areas of the database to organizations to do quarterly updates is the favored idea of the Commission.

Director Jackman volunteered to put together a one-page informational bulletin to share with organizations asking for assistance to update the information contained in the eastshore.life database. He will bring this letter back to the Commission for approval.

6. PUBLIC TIME

The Chair called for questions from the public at 3:05 p.m.

No public in attendance.

7. NEXT MEETING

The next Area A Economic Development Commission meeting is scheduled for January 28, 2024 at 2:00 p.m. MST.

8. ADJOURNMENT

Moved and seconded,
AND Resolved

The Area A Economic Development Commission meeting be adjourned at 3:08 p.m.

Carried

Digitally approved by

Chair Gina Medhurst

PHASE FIVE DRAFT BUDGET

	<u>Base Cost</u>	<u>GST PST</u>	<u>Comments</u>
Selkirk and COTR	\$39,100	\$0	includes admin
Line Clearing (ESTB)	\$3,500	\$420	
ERT - Crawford Creek (Frontier)	\$24,770	\$2,972	
Summer student - geological field work	\$20,000	\$0	
Engineering Consultant (TBD)	\$30,000	\$1,500	
3D Modelling (Aetna)	\$11,000	\$1,320	
Travel	\$500	\$0	
Indigenous Engagement	\$2,500	\$0	
Community Engagement	\$1,000	\$0	
Software	\$350	\$42	
SKLCSS Admin	\$3,000	\$0	
		\$900	Selkirk COTL GST
GST PST Total		\$7,154	
Program Total	\$135,720		
TOTAL BUDGET		\$142,874	

Kootenay Lake Geothermal Project – Phase Four Proposal
Presented to RDCK Area A EDC
December 13, 2024

1. What is the purpose and goal(s) of the project?

The Kootenay Lake area has one commercial hot spring resort and numerous hot spring occurrences, within an area recognized to have abnormally high geothermal heat flow. Research conducted through Phases One, Two, Three and Four have resulted in a better understanding of the geological attributes of these anomalous geothermal conditions. The geological, geochemical, geophysical and geospatial programs carried out in Phases Two - Four have highlighted an area of primary interest along Crawford Creek where there is an existing hot spring (32°C) and with further investigations in 2024, there is now further interest in the Riondel area

Geological mapping in Phase Four focused on measuring the structural orientation and distribution of faults, joints or fractures to better understand and characterize the geothermal reservoir hosting the observed thermal springs. Detailed geochemistry from Phases Three and Four, in the Crawford Creek area provided Anion, Cation and Stable Isotope ratios to understand the hydrogeological properties of the thermal fluids and assess how these thermal fluids are intermixing with surface fresh water.

A Phase 3 temperature probe study saw the deployment of sensors at 22 locations in the vicinity of Crawford Creek to quantify heat flow variations in the area and will be retrieved this summer. These probes were recovered during Phase Four with data downloaded and interpreted by the Geological Survey of Canada (GSC). The results indicate anomalous temperatures and higher than background thermal conductivity at several of the sights analyzed. Phase Four work will wrap with a drone-based magnetometer survey over a 3 Sq Km area around Riondel. A magnetometer survey was conducted in 2023 over the Crawford Creek thermal spring and the technology was capable of imaging subsurface changes in rock type and subsurface features such as fractured rock and possible fault traces. This work provided detailed confirmation of the surface geological measurements taken by our summer student. The planned Riondel survey has a similar objective. At Riondel there were thermal waters encountered in numerous places across the mine but in the Kootenay Chief mine at the south end of the peninsula thermal water came into the mine workings at very high flow rates. The survey at Riondel, to be completed late December 2024, will help us better understand the geological controls on these thermal occurrences there.

Phase Five will see follow-up work carried out in the Crawford Creek and Riondel areas with detailed follow-up of geological mapping of the fault/fracture systems, to better constrain the subsurface structural model. Additional ERT surveys will be undertaken to fill in data gaps and extend mapping beyond the 2023 survey areas. A commercial ERT survey program will image to greater depths in the subsurface than the 2023 survey. This will enable the development of a

more comprehensive hydrothermal model and direct the selection of potential drilling locations. All collected data will be integrated into a multifaceted hydrothermal model which will help quantify the resource and provide technical support for future drilling and testing.

A key component of the work planned in Phase Five will be economic modelling and the development of prospective business plans. Phase Five will see economic modelling and business planning work with Selkirk College and College of the Rockies. Economic modelling work will assess geothermal direct heat use for greenhouses focusing on scope/size, cost structure and greenhouse technological advancements and appropriate commercial agricultural crops. Commercial applications would include food production, drying, processing and marketing both locally and outside the region. Two students will be contracted for summer employment with one focused on appropriate greenhouse technologies and economic evaluation of a geothermally heated greenhouse capable of year-round food production. The second student will consider the regional food market and the types of produce to target.

Additionally, economic modelling with a third-party independent engineering consultant with the main focus of this work being to assess a range of geothermal power plants – small 0.5-1MW, medium 1-2MW and large 5-20MW. The assessment will include the capital costs to drill and complete production wells, the power plant and the facilities required to connect wells and to connect to infrastructure. These cost components will be utilized to create economic models for the three plant size scenarios. In addition, an assessment will be done to derive geothermal well productivity thresholds required to service the plants being modelled.

Encountering geothermal fluids in the 40-80°C range, with strong and sustained flow rates, could lead to the development of a commercial-based, pilot geothermal demonstration project within the next few years.

2. How does this support and help to develop the local economy or add value to the community?

Employing geological, geochemical, geophysical and geospatial technologies in the Kootenay Lake area will contribute to the overall geothermal resource's knowledge base in British Columbia and Canada, laying the foundation for potential commercial-based geothermal direct heat developments. With the successful completion of Phase Four of the Kootenay Lake Geothermal Project a predictive geological and hydrothermal model will be developed leading to the quantification of a geothermal reservoir target for drilling and testing.

A geothermal reservoir that yields sufficient heat content and fluid flow rates will present a range of Direct Heat applications prospective for the Kootenay Lake area, along with a spectrum of low carbon opportunities that would lend themselves to sustainable economic community development. Cold weather climates such as Alaska, Iceland and the Netherlands have demonstrated geothermal derived heat can sustainably grow agricultural products year-round. In 1992, the Desrochers feasibility assessment for the geothermal energy of the Bluebell

Mine in Riondel envisioned nine Quonset style greenhouses (covering approximately 3,780 sq m) for a 100% capacity (year-round) greenhouse complex.

As of 2020, 88 countries reported direct utilization of geothermal energy and the installed capacity for Direct Use Geothermal has increased by over 50% from 2015 to 2020, indicating significant growing momentum in this market (Lund & Toth, 2021). Canada has great potential to develop low to medium temperature geothermal resources, especially to support remote communities, but it has yet to install a power plant or implement agri-food direct-use applications as of 2021. There are currently no active Geothermal projects generating power in BC but direct use of geothermal water in resorts/spas has been well established. A successful geothermal project at Kootenay Lake would advance a renewable energy transition addressing food security, workforce development, local purchasing and procurement, community economic vitality, technology adoption, resident attraction and energy resilience -with a low carbon impact. With success this economic model could be used as a template for direct heat applications or power generation in the greater region. On a wider scale, the project can contribute to Canada's net-zero emissions goals and the development of a net-zero emissions economy.

3. Does this compete with already established groups or businesses?

A direct heat project such as a commercial geothermal greenhouse would not compete with established groups or business but would rather complement agricultural initiatives in the Creston Kootenay Lake valley.

4. How many people will be involved? Will there be a fee charged to those people? Please list other organizations or businesses that support your idea and attach any letters of support.

The project will be managed and supported by volunteers. Retired geologists, Gordon MacMahon and Daniel Gatto will continue to provide volunteer in-kind contributions to the project throughout Phase Five.

Selkirk Innovates is a local regional college operating out Castlegar & Nelson BC. Selkirk has been a contributing partner of Kootenay Lake Geothermal for the past several years through the school of Environment and Geomatics. In 2025, KLG will also be working with Selkirk Innovates Rural Economic Development group and the Applied Research and Innovation group at College of the Rockies in Cranbrook BC. Selkirk Innovates and COTR will support the project through evaluation and analysis of geothermal greenhouses from the prospective of technology, best practices, economic evaluation, economic modelling and marketing. At Selkirk, Dr. Sarah Breen's work is guided by regional priorities and partnerships, assisting in economic diversification through the promotion of innovation and technology transfer. She has over 10 years of experience in research, policy and project management. Her research interests include economic development, infrastructure, natural resource management, resilience, governance and policy—all with a specific focus on rural. At College of the Rockies, Dr. Paul Tiege's work in

applied research focuses on activities with strong potential for practical learning experiences for students and that have the potential to transform lives and enrich communities. His recent work on greenhouses will inform decisions regarding innovation in society that contributes to economic, social and cultural development. Dr. Tiege has over 20 years of pure and applied research experience in agriculture, chemistry and the life sciences, including project management and business development. These collaborations will assist in developing regional capacity and economic diversification of low carbon geothermal energy, innovation and technologies.

Please give brief bio/credentials of the main project leader(s).

Gordon R. MacMahon, BSc, MA, PGeol. Geologist Retired

Experienced professional geologist with over 40 years working in subsurface exploration, development and acquisitions. Mr. MacMahon is proficient in operational management and comfortable managing projects across a range of geotechnical environments, collaborating within a multidisciplinary team. His exposure working in mergers and acquisitions during his career has provided him with a solid foundation in business, economics, and finance.

Daniel P. Gatto, BSc, Geologist Retired

Experienced professional geologist with over 40 years working in subsurface exploration, development, acquisitions/divestitures, and equity financing both domestically and internationally. Mr. Gatto is proficient in project management, working with and leading multidiscipline technical teams and has diverse geotechnical expertise. His experience in Investment banking and private equity have provided him with a strong foundation of full cycle asset management, business, finance, and economics.

Please attach a balanced budget for the project showing the following:

1. Show how the grant monies will be allocated

EDC funding would support the program generally, as foundational funds are often critical to securing follow-on funding. This is particularly important as the budget for Phase Five will be between \$100,000 and \$150,000. The goal in Phase Five is to gather all the remaining technical data to allow for the confirmation of at least 2 drill test locations, to be drilled in Phase Six. This means using commercial service providers for more in-depth investigations and expanded survey areas. The planned program in Phase Five also includes 3D modelling work which will be undertaken by a consultant, the same consultant who developed a preliminary model in Phase Three.

2. List other sources and amounts of funding – multiple sources are encouraged.

- A funding application has been submitted through the Rural Economic Diversification and Infrastructure Program (REDIP) in the amount of \$100K for two years.
- A funding application to ETSI was submitted and was successful in the amount of \$20K
- Working with Selkirk College and the College of the Rockies, two Mitacs units will be applied for, representing a combined additional \$15K
- In addition, Kokanee Springs Resort has offered to contribute \$5K towards the Phase Five program.
- If the decision is made to hire a geological summer student in 2025 an application to College and Institutes Canada (CiCAN), Natural Resources Internship Program will be made. Funding from this program will cover up to 80% of the summer student's salary. This was \$12.5K in 2023 and 2024. Application timing is typically in May so the application for Phase 5 will be submitted as soon as the program is launched.
- Other potential funding sources are also being investigated

3. List all anticipated expenses associated with the project plan

Expenses associated with the project are detailed in the attached budget

4. If you are hiring a contractor, include one or more quotes for the project.

We are hiring a commercial service provider to conduct an ERT survey in 2024. The proposals received to date are similar in total potential cost (\$22.4K - \$24.7K), however there is a considerable difference in capacity between the two. For example, one contractor can do lines up to 3,200m long while the second contractor can only do lines of 800m. This difference is significant in that longer lines can image much deeper into the subsurface. The proposal from the preferred candidate (Frontier Geoscience) is attached here for your reference.

5. If this is not the first year for the project, please attach an Income-Expense Statement from last year.

See attached from SKLCSS, Garry Sly

FRONTIER GEOSCIENCES INC.

237 St. Georges Ave., North Vancouver, BC V7L 4T4

604.987.3037

October 22, 2024

Attention: Gord MacMahon, BSc, MA, PGeol.
Project Lead, Kootenay Lake Geothermal Project

RE: Proposed Electrical Resistivity Tomography Survey
Kootenay Lake Geothermal Project

We are pleased to have this opportunity to provide our updated proposal for geophysical surveying in 2025, in support of the Kootenay Lake Geothermal Project. We understand that you require Electrical Resistivity Tomography (ERT) surveying to classify subsurface materials by resistivities, over three prospects: Crawford Creek, Riondel and Ainsworth. The 2025 Crawford Creek surveying will consist of two lines, approximately 2km and 0.7km in length, respectively. Data processing will include the 2023 ERT surveying conducted at the Crawford Creek prospect. Riondel project surveying will consist of one line, approximately 2km in length; Ainsworth project surveying is two lines, approximately 2.1km and 1.1km in length, respectively.

A tomographic 32 electrode system will be mobilised to undertake this work with a 50/100 m dipole array, with current provided by a 3.6 kW transmitter. As well, node receivers will be deployed to extend coverage, and where possible, fill in blank areas to provide improved spatial data support for the inversion processing. The system can gather induced polarisation decay information to provide chargeability sections.

Electrical Resistivity Tomography (ERT) Surveying

High density electrical resistivity tomographic surveying will map subsurface layering based on resistivities, with additional data collection of chargeabilities to aid in classifying the overburden materials. We propose to carry out the electrical resistivity profiling using a multi-electrode resistivity system. The system is an automated microprocessor-controlled transmitter-receiver, which records eight receiver channels simultaneously to speed up data collection and obtain detailed electrical resistivity profiles. The high resolution, full waveform receiver records the entire waveform providing full, 24 bit waveforms for processing. Self-potential drift, transient effects, and several other noise sources are accurately identified and removed from the signal. This allows the full waveform system to provide better results in lower signal level situations, such as higher electrode spacings, and corresponding deeper penetration in a dipole-dipole survey, or in geologic settings with unfavourable signal-to-noise levels.

Field procedure entails laying out the resistivity cables along the survey line, with the resistivity system positioned at the centre of the configuration. Metal electrodes are driven into the ground and connected to the resistivity meter by a multi-conductor wire with addressable connections. During multi-electrode surveying, a central switching system is used to address this array of electrodes. A system of high voltage relays in the central switching system allows the transmitter to utilise any pair of electrodes for current injection. For the deeper survey, current is introduced from the large transmitter external to the cable array. Similarly, the switching is accomplished by a multiplexer directing the signals from any of the field electrodes to the eight input channels of the receiver.

By means of a command file programmed in the receiver, electrode arrays including Schlumberger, Wenner, dipole-dipole, pole-dipole and pole-pole, or multiple combinations of arrays, may be chosen for execution by the system. The dipole-dipole electrode array would be used for this survey, which provides good lateral resolution of electrical resistivities.

Data reduction involves filtering of recorded data to remove negative data points and poor or unreliable data. The data are then processed using the RES2DINV or RES3DINV inversion program developed by M.H. Loke. This software utilizes a non-linear, least-squares inverse modelling approach to calculate the apparent resistivity values and depths that best fit the observed data. The model parameters are the electrical resistivity values of the subsurface model cells, while the data are the measured input currents and resulting electrical voltages measured between the surface electrodes. To increase the accuracy of the modelling process, the elevation of each electrode is incorporated into the input data file. Using the finite-element optimization method, an initial model is modified in an iterative manner so that the differences between the model responses and the data values are reduced.

Survey Layout and Positioning Information

Line cutting of the traverses will be required, prior to arrival of the geophysical survey crew. The line should be cut approximately 1 metre in width, so that field personnel with heavy backpacks can walk down the line, and clear of brush and branches so that the ground is accessible for planting electrodes. Large trees do not need to be cut down, as they can be worked around.

Positioning information will be recorded in the field. Line locations will be recorded with reference to GPS readings, chainages and physical landmarks. Relative elevation information will be recorded using inclinometer readings. Together with high quality topographic maps of the site, this should provide an adequate level of elevation control. Should absolute elevations be required, markers will be left on the traverse, such that a land survey crew can establish detailed positions and elevations.

Survey Costs

We have estimated costs to travel to the Kootenay Lake area and carry out the geophysical investigation. We have included in our cost estimate allowances for geophysical technician and field assistant, travel, survey equipment and vehicle, meals and accommodations, data interpretation and report preparation. No allowance has been made in our estimate for line cutting (if required), three or four field labourers, or GST.

Crawford Creek Prospect Survey Program (2 lines, total 2.7km)	
Project Management	\$450.00
Equipment Preparation	800.00
Mobilization	2,160.00
Geophysical Survey Crew Day Costs – 5 days @ \$3,090.00 per day	15,450.00
Demobilization	2,160.00
Data Reduction and Interpretation	3,250.00
Survey Report	<u>500.00</u>
Total Estimated Crawford Creek Program Cost	<u>\$24,770.00</u>

Option: Riondel Prospect Survey Program (1 line, total 2.0km)	
Geophysical Survey Crew Day Costs – 3 days @ \$3,090.00 per day	9,270.00
Data Reduction and Interpretation	2,000.00
Additional Reporting	<u>500.00</u>
Total Estimated Riondel Option Cost	<u>\$11,770.00</u>

Option: Ainsworth Prospect Survey Program (2 lines, total 3.2km)	
Geophysical Survey Crew Day Costs – 5 days @ \$3,090.00 per day	15,450.00
Data Reduction and Interpretation	3,250.00
Additional Reporting	<u>500.00</u>
Total Estimated Ainsworth Option Cost	<u>\$19,200.00</u>

Deliverables

Deliverables include location and site plans, and ERT resistivity and chargeability volumes and profiles incorporating topography. A digital report outlining logistics information, description of equipment and methodology, data processing procedures, limitations, and discussion of results will be produced. The results can be provided in DXF or similar format for inclusion in GIS systems and engineering drawings.

We trust that this if the information you require at present. Please don't hesitate to contact us if you have any questions or would like to discuss any aspect of our proposal.

Yours sincerely,
Frontier Geosciences Inc.

Cliff Candy, P.Geo.



REGIONAL DISTRICT OF CENTRAL KOOTENAY
Area A – Economic Development Commission
Grant Application

Contact Information:	
Organization Applying: (This is the name that will appear on the cheque issued from RDCK and is recognized on the organization's bank account.) South Kootenay Lake Community Services Society	Date: Dec 13/24
Mailing Address: Box 182	Amount of Financial Aid Requested: \$ 10,000
City, Province: Crawford Bay BC	Project Start Date: March 1, 2025
Postal Code: V0B 1E0	Project End Date: April 31, 2026
Contact Person: Gord MacMahon	Contact Phone #: 250-777-7372
Contact Email: gordmacmahon@gmail.com	Contact Fax #:

About Your Proposal:
Brief Summary of Proposal: The Kootenay Lake Geothermal Project will commence Phase 5 in 2025. Planned activities include economic modeling & business planning, geophysical and geological field surveys.
Will this proposed activity/project be advertised and if so, how? It will be advertised in the Eastshore Mainstreet to announce open houses planned for Feb/Mar 2025 to be held in both Crawford Bay and Riondel.
How will the support from Area A EDC be recognized? RDCK support through Area A EDC will be recognized in all presentations as well as in any follow up media articles.

Return completed application and supporting documents by email to info@rdck.bc.ca

Please see page 2 for instructions on how to complete this application.

South Kootenay Lake Comm Service Society

PO Box 182
16150 Walkley Road
Crawford Bay, BC, V0B 1E0

Balance Sheet [Last Year Analysis]

September 2024

2024-12-12
12:53:34 PM

	This Year	Last Year	\$ Difference	% Difference
Assets				
Current Assets				
Cash On Hand				
NDCU Share/Dividend	\$35.24	\$35.24	\$0.00	0.0%
Total Cash On Hand	<u>\$35.24</u>	<u>\$35.24</u>	<u>\$0.00</u>	<u>0.0%</u>
NDCU Chequing Account #150	\$103,523.27	\$220,679.22	-\$117,155.95	(53.1%)
NDCU Gaming Account	\$0.00	\$14,885.82	-\$14,885.82	(100.0%)
Accounts Recievable	\$5,873.82	\$0.00	\$5,873.82	NA
Total Current Assets	<u>\$109,432.33</u>	<u>\$235,600.28</u>	<u>-\$126,167.95</u>	<u>(53.6%)</u>
Other Assets				
Prepaid Expenses	\$652.59	\$0.00	\$652.59	NA
Total Other Assets	<u>\$652.59</u>	<u>\$0.00</u>	<u>\$652.59</u>	<u>NA</u>
Total Assets	<u>\$110,084.92</u>	<u>\$235,600.28</u>	<u>-\$125,515.36</u>	<u>(53.3%)</u>
Liabilities				
Current Liabilities				
Grants Payable	\$109,666.12	\$233,805.46	-\$124,139.34	(53.1%)
Total Current Liabilities	<u>\$109,666.12</u>	<u>\$233,805.46</u>	<u>-\$124,139.34</u>	<u>(53.1%)</u>
Payroll Liabilities				
Payroll Remittance CRA	-\$41.53	\$2,036.60	-\$2,078.13	(102.0%)
Total Payroll Liabilities	<u>-\$41.53</u>	<u>\$2,036.60</u>	<u>-\$2,078.13</u>	<u>(102.0%)</u>
Total Liabilities	<u>\$109,624.59</u>	<u>\$235,842.06</u>	<u>-\$126,217.47</u>	<u>(53.5%)</u>
Equity				
Retained Earnings	\$2,190.45	\$1,863.32	\$327.13	17.6%
Current Year Earnings	\$702.11	\$327.13	\$374.98	114.6%
Historical Balancing	-\$2,432.23	-\$2,432.23	\$0.00	0.0%
Total Equity	<u>\$460.33</u>	<u>-\$241.78</u>	<u>\$702.11</u>	<u>290.4%</u>
Total Liability & Equity	<u>\$110,084.92</u>	<u>\$235,600.28</u>	<u>-\$125,515.36</u>	<u>(53.3%)</u>

South Kootenay Lake Comm Service Society

PO Box 182
16150 Walkley Road
Crawford Bay, BC, V0B 1E0

Profit & Loss [With Last Year]

October 2023 through September 2024

2024-12-12
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	This Year	% of Sales	Last Year	LY % of Sales
Income				
Donations	\$650.00	0.2%	\$618.20	0.3%
Sales & Fund Raising	\$6,440.96	1.7%	\$5,369.40	2.5%
Administration Income	\$14,636.67	3.9%	\$16,002.99	7.3%
Grant Income				
RDCK Grants				
RDCK EDC AREA A Grant	\$10,551.25	2.8%	\$14,451.12	6.6%
RDCK CBT/CIP Grant	\$3,544.59	0.9%	\$4,998.99	2.3%
RDCK Discretionary Grant	\$993.60	0.3%	\$4,273.30	2.0%
RDCK REC#9 Area A Grant	\$7,446.94	2.0%	\$7,010.54	3.2%
CSLAC Grant	\$0.00	0.0%	\$4,020.00	1.8%
Total RDCK Grants	\$22,536.38	5.9%	\$34,753.95	15.9%
Services Organization Grants				
Valley Community Services	\$3,565.00	0.9%	\$9,022.97	4.1%
REDIP Grant	\$70,030.47	18.4%	\$2,211.40	1.0%
CBT Sustainability Grant	\$33,759.00	8.9%	\$0.00	0.0%
CBT Grants				
CBT Community Development Pgm	\$14,237.98	3.7%	\$10,950.22	5.0%
CBT Youth Network	\$56,549.24	14.9%	\$58,057.26	26.6%
CBT Xmas Grant	\$3,000.00	0.8%	\$2,500.00	1.1%
CBT Social Grant	\$37,203.08	9.8%	\$36,151.25	16.6%
CBT Sponsorship	\$0.00	0.0%	\$500.00	0.2%
CBT Basin Plays	\$389.58	0.1%	\$960.60	0.4%
Total CBT Grants	\$111,379.88	29.3%	\$109,119.33	50.0%
CICAN Grant	\$18,899.56	5.0%	\$7,916.88	3.6%
NDCU Grants				
NDCU Community Invest Pgm	\$3,330.38	0.9%	\$3,500.00	1.6%
NDCU	\$51,628.68	13.6%	\$0.00	0.0%
Total NDCU Grants	\$54,959.06	14.5%	\$3,500.00	1.6%
KBCSC Grants				
Geoscience grant	\$12,000.00	3.2%	\$24,647.90	11.3%
Total KBCSC Grants	\$12,000.00	3.2%	\$24,647.90	11.3%
Trans Canda Trail Grant				
Trans Canada Trail Grant	\$0.00	0.0%	\$3,000.00	1.4%
BC Gaming Grant	\$14,784.82	3.9%	\$720.00	0.3%
United Way	\$14,552.49	3.8%	\$0.00	0.0%
CBT School Works	\$0.00	0.0%	\$504.00	0.2%
Other Fund	\$1,078.19	0.3%	\$523.62	0.2%
Kootenay Lake Lions Club	\$500.00	0.1%	\$428.17	0.2%
Total Grant Income	\$358,044.85	94.3%	\$196,348.22	89.9%
Total Income	\$379,772.48	100.0%	\$218,338.81	100.0%
Cost of Sales				
Gross Profit	\$379,772.48	100.0%	\$218,338.81	100.0%
Expenses				
Supplies & Equipment				
Office Supplies	\$15.40	0.0%	\$197.55	0.1%
General Supplies	\$20,989.02	5.5%	\$15,605.45	7.1%
Tools & Equipment/Machines	\$1,907.50	0.5%	\$5,035.38	2.3%
Motor Vehicle	\$102,977.58	27.1%	\$0.00	0.0%
Lab Analysis	\$8,074.15	2.1%	\$6,169.80	2.8%
Advertising & Promotion				
Marketing	\$41.05	0.0%	\$463.48	0.2%
Business & Promotion	\$178.50	0.0%	\$541.67	0.2%
Administration				
Bank Fees	\$235.00	0.1%	\$217.00	0.1%
License & Registration	\$301.34	0.1%	\$289.80	0.1%

South Kootenay Lake Comm Service Society

Profit & Loss [With Last Year]

October 2023 through September 2024

2024-12-12
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	This Year	% of Sales	Last Year	LY % of Sales
Legal & Accounting	\$0.00	0.0%	\$68.24	0.0%
Postage & Shipping	\$398.93	0.1%	\$400.00	0.2%
Website Fees	\$0.00	0.0%	\$300.00	0.1%
Administration Fee	\$14,740.61	3.9%	\$15,889.80	7.3%
Refund	-\$220.00	(0.1%)	\$3,939.55	1.8%
Insurance				
WCB	\$267.37	0.1%	\$126.13	0.1%
Liability Insurance	\$5,813.00	1.5%	\$4,937.00	2.3%
Travel & Accomodation				
Transportation	\$13,147.44	3.5%	\$14,138.04	6.5%
Accommodation	\$437.32	0.1%	\$2,867.61	1.3%
Management & Professional Fees				
Project Mgmt/Coord Fees	\$89,642.83	23.6%	\$96,372.83	44.1%
Project Contractor/Labour	\$72,740.00	19.2%	\$25,582.43	11.7%
Profession/Business Services	\$25,090.04	6.6%	\$0.00	0.0%
Honorarium	\$290.00	0.1%	\$0.00	0.0%
Conference & Education				
Education & Training	\$757.54	0.2%	\$879.99	0.4%
Utilities				
Telephone/Cell	\$1,335.42	0.4%	\$1,316.33	0.6%
Photocopy/Print	\$128.91	0.0%	\$5.50	0.0%
Office Rent	\$0.00	0.0%	\$25.00	0.0%
Utilities	\$0.00	0.0%	\$552.50	0.3%
Program Facilities Rent	\$3,108.25	0.8%	\$3,215.95	1.5%
Events				
Special Events	\$180.53	0.0%	\$0.00	0.0%
Engagement,Programs,Activities	\$11,893.92	3.1%	\$13,899.29	6.4%
Meeting & Planning	\$457.61	0.1%	\$79.51	0.0%
Event Facility Rental	\$73.50	0.0%	\$584.50	0.3%
Payroll				
Payroll Expenses	\$4,067.61	1.1%	\$4,311.35	2.0%
Total Expenses	<u>\$379,070.37</u>	<u>99.8%</u>	<u>\$218,011.68</u>	<u>99.9%</u>
Operating Profit	<u>\$702.11</u>	<u>0.2%</u>	<u>\$327.13</u>	<u>0.1%</u>
Other Income				
Other Expenses				
Net Profit / (Loss)	<u><u>\$702.11</u></u>	<u><u>0.2%</u></u>	<u><u>\$327.13</u></u>	<u><u>0.1%</u></u>