

# Oil, Gas and Salt Resources Trust

## 2024 Business Plan



[Stereoscopic Rock Core Workshop]

Prepared by:  
Ontario Oil, Gas & Salt  
Resources Corporation

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## **Oil, Gas and Salt Resources Trust**

### ***MISSION***

The Oil, Gas and Salt Resources Trust is established by the Oil, Gas and Salt Resources Act of Ontario for the purpose of managing information and funding research relating to oil, natural gas, salt solution mining, storage in geological formations, fluids in geological formations, and other activities pertaining to the Act.

Information and geological sample storage, organization, transformation, and communication are done on an ongoing basis by the Ontario Oil, Gas & Salt Resources Corporation (OOGSRC), the *Original Trustee*. The trustee will fulfil the duties assigned to them under the Trust Indenture and assist all parties interested in exploring the subsurface Paleozoic rocks of Ontario.

### ***OBJECTIVES***

- The OOGSRC will maintain and operate a physical facility to warehouse industry information known as the Oil, Gas and Salt Resources Library.
- Promote use of the core and cuttings laboratory at the Oil, Gas and Salt Resources Library and maintain laboratory in good order.
- Make all Library data available in digital mediums through a self-serve online portal. Promote and attract clients to the resources made available via the online portal.
- Collect and maintain information and develop products relating to oil, natural gas, salt, subsurface fluid resources, and underground fluid storage.
- Communicate and promote Ontario's geoscience data in new and innovative mediums.
- Enhance and manage a sustainable business.

## ***1.0 Introduction***

The Oil, Gas and Salt Resources Trust (Trust) 2024 Business Plan was prepared to fulfill the mandate of the *Trust Indenture* between the Province of Ontario and the Ontario Oil, Gas & Salt Resources Corporation, an entity established by the Ontario Petroleum Institute Inc. The Trust also establishes that a facility named the Oil, Gas & Salt Resources Library (Library) will host data, files, drill samples, library materials, and other physical assets to be used in the delivery of the trust objectives.

## ***2.0 Executive Summary***

The 2024 Business Plan identifies both the long-term strategy and short-term action plans undertaken by the OOGSRC in operating the Oil, Gas and Salt Resources Library as a resource centre for oil and natural gas, hydrocarbon storage, salt/solution mining industries, carbon capture and storage, and other sub-surface sectors in Ontario and Canada.

The OOGSRC is a self-sustaining organization that generates its revenues from the data held at the Library and from the Trust charges paid by OGSRA licence holders and Library users.

In 2024, the OOGSRC will focus on improving digital delivery of services. Delivery will be made via an online portal that will provide access to data sets, membership signups, data purchases and physical products. Access to Library data continues to be overwhelmingly done using only the online portal, with that exception of access to physical rock samples via the laboratory that makes up a small portion of the Library's revenue; the OOGSRC will bring more existing Library data online and create tools that will allow members and patrons to extract value from the data.

### ***3.0 The Oil, Gas and Salt Resources Trust***

The Ontario Ministry of Natural Resources formed the Oil, Gas and Salt Resources Trust pursuant to amendments made to the Oil, Gas and Salt Resources Act in 1997. A Trust Indenture signed on February 16, 1998 with the “Original Trustee”, the Ontario Oil, Gas & Salt Resources Corporation, an entity established by the Ontario Petroleum Institute Inc (OPI). The OPI is the sole shareholder of the Ontario Oil Gas & Salt Resources Corporation (Corporation). The OPI appoints the board of the Corporation. The core storage facility and laboratory known as the “Petroleum Resources Laboratory” was renamed “Oil, Gas and Salt Resources Library” (OGSRL) and is the site of the operation.

The Trust Indenture transferred responsibility for the operation of the core and cuttings storage area, public well files, client service area and reference library to the Trustee, including payment of all reasonable costs and expenses of the Oil, Gas and Salt Resources Library.

Requirements for a Trust Advisory Committee (TAC) exist within the Trust Indenture. The TAC is comprised of four representatives from the oil and natural gas exploration and production industry, and one representative from each of the natural gas storage, hydrocarbon cavern storage, and salt solution mining industry. The TAC meets regularly to approve the Trust budget and review Trust charges.

#### ***3.1 The Structure of the Trust Indenture:***

| <b>Ontario Ministry<br/>of Natural Resources and<br/>Forestry</b> | <b>Trustee<br/>Ontario Oil, Gas &amp; Salt<br/>Resources Corporation<br/>↓<br/>Board of Directors<br/>↓<br/>Manager<br/>↓<br/>Staff and Contractors<br/>↓<br/>Oil, Gas and Salt<br/>Resources Library</b> | <b>Trust Advisory Committee</b> |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|

#### ***3.2 Ontario Oil, Gas & Salt Resources Corporation***

The OOGSRC board consists of the OPI chairman, OPI vice-chairman, and OPI board members elected by the OPI to be directors, as per OPI by-laws.

The 2024 Oil, Gas and Salt Resources Business Plan / Budget was prepared by the 2023 Ontario Oil, Gas & Salt Resources Corporation: Scott Lewis, President; Peter Budd, Vice-President; Jeff Luckovitch, Director; Peter Rowe, Director; Mark Emmanuel, Director.

The 2024 Ontario Oil, Gas & Salt Resources Corporation are: Scott Lewis, President; Peter Budd, Vice-President; Mark Emmanuel, Director; Frank Kuri, Director; Dave Thompson, Director.

### ***3.3 Trust Advisory Committee***

The Trust Advisory Committee is a seven-person committee comprised of four representatives from the oil and natural gas exploration and production industry, and one representative from each of the natural gas storage industry, the hydrocarbon cavern storage industry, and the salt solution mining industry, appointed by the Ontario Oil, Gas & Salt Resources Corporation.

#### *Oil and Natural Gas Exploration and Production:*

Dale Norman, Land Manager, Elexco Land Services, Ltd.

Mike Dorland, Consulting Geologist

Terry Carter, Consulting Geologist

Heather Gilpin, Lagasco Inc.

#### *Natural Gas Storage:*

Shelie Cascadden, Senior Geologist, Enbridge Gas

#### *Hydrocarbon Cavern Storage:*

Mike Edgar, Manager, East NGL

#### *Salt Solution Mining:*

*To be determine during the first quarterly meeting of the OOGSRC in 2024.*

#### *Ontario Ministry of Natural Resources (non-voting observer)*

Richard Ostrowski

The chairperson of the Trust Advisory Committee is Dale Norman.

### ***3.4 Oil, Gas and Salt Resources Library Team***

Jordan Clark, Manager

Matt Dupont, Media and Information Technician

Connor MacCloud, GIS and Database Technician

Elizabeth Lenkić, Geological Laboratory Assistant

Zohreh Ghorbani, Geological Laboratory Assistant

## ***4.0 Industry Summary***

Ontario's petroleum and salt solution mining industries include the following activities:

- (i) oil exploration and production;
- (ii) natural gas exploration and production;
- (iii) natural gas underground storage;
- (iv) salt solution mining; and
- (v) hydrocarbon underground storage associated with the petrochemical refining industry
- (vi) compressed air energy storage

These activities provide Ontario consumers with the following:

- (i) a percentage of Ontario produced oil supply and related products; and
- (ii) a percentage of Ontario produced natural gas supply,
- (iii) storage of imported oil by pipeline and rail from sources North America;
- (iv) storage of natural gas imported by pipeline from sources in North America;
- (v) table salt and industrial salt – Ontario is a net exporter of salt produced from salt solution mining;
- (vi) underground storage caverns of product necessary for Ontario's petrochemical and refining industry;

An estimate of the oil and natural gas industry's contribution to the Ontario economy:

- (i) approximately 700 plus people directly employed in exploration, production, storage and salt solution mining in Ontario;
- (ii) industry assets = \$650 million;
- (iii) personal total taxable income = \$55 million;
- (iv) services and goods purchased by the industry = \$90 million;
- (v) lease payments and royalties paid to landowners and the crown = \$10.4 million; and
- (vi) municipal taxes = >\$4 million per year.

The value of production and storage in Ontario in 2018:

- (i) 1,364 wells produced 317,839 barrels of oil = \$19 million
- (ii) 1,167 wells produced 4.7 billion ft<sup>3</sup> of natural gas = \$20 million;
- (iii) 7,875 million m<sup>3</sup> (278 billion ft<sup>3</sup>) of natural gas storage capacity = \$1 billion (estimate) in value;
- (iii) 3.5 million m<sup>3</sup> of hydrocarbon storage capacity = ± \$1 billion in value; and
- (iv) Solution Salt Value – no data available.

The annual value of oil and natural gas sector to the Ontario is estimated at \$5 billion.

## ***5.0 Oil, Gas and Salt Resources Library – A Resource Centre***

### ***5.1 Resources***

The Oil, Gas and Salt Resources Library (Library) can trace its origin to the late 1800's, when the Geological Survey of Canada (GSC) solicited voluntary submissions of drill cuttings and core from oil and gas wells drilled in Ontario and other parts of the country. This informal collection evolved into the establishment of a core and drill cuttings sample processing, storage and study facility in Ottawa. In 1950, a similar facility in Calgary was established which housed all drill cuttings samples from Western Canada. In 1971, the Ontario cores and drill cuttings samples were collected and sent to the new Petroleum Resource Laboratory in London, Ontario that was owned and operated by the Ontario Ministry of Natural Resources

The Library houses resources and data available for study including:

- (i) drill cuttings samples from over 13,100 wells;
- (ii) cores from over 1,000 wells;
- (iii) file information on approximately 27,000 wells including geophysical logs, formations tops, well history and construction;
- (iv) oil/gas/water zones, initial completion results;
- (v) core analyses;
- (vi) oil/gas/water analyses; and
- (vii) an extensive collection of reference books, periodicals, and reprints on the subsurface geology of oil, gas, salt and subsurface storage resources of Ontario.

Maintaining a fully digital and accessible record of the Ontario petroleum industry remained the primary concern of the trust. This project completed approximately 500,000 scans of well plugging and other technical reports now available on-line. New documents as scanned and made available through the website as they arrive at the Library. An up-to-date catalogue of digital documents that accurately reflects what can be found in the files of the physical library is key to maintaining user trust and promoting online use of library resources.

The Ontario Petroleum Data System data entry project is complete with a total count of approximately 27,000 wells on record. Data integrity is an ongoing concern, as with any database, and in its capacity as a library and data maintainer the Oil, Gas and Salt Resources Library is constantly monitoring data quality. New efforts to improve and maintain data quality are undertaken each year by the Library and between the Library and industry partners. In 2016, approximately 80,000 geological picks graded by the MNRF and the Geologic Survey of Canada (GSC) as part of a quality assurance program. Work on the geology portion of the database, with the assistance of GSC, continued from 2019 through 2022.

Newly digitized and quality assured data is published each year in the form of new map products. The annual Pools and Pipelines Maps sums up the total cumulative production numbers for all pools producing natural gas and crude oil in Ontario. A geographical component of this project produced a new layer of updated pool boundaries and published in the Oil and Gas Pools and Pipelines Map of Southern Ontario. In 2020, a new round of advertisers for the map and new advertising opportunities were available.

## 5.2 Services

The Library attracts industry participants wanting to view data files relating to wells drilled in Ontario (i.e., well cards, production information, plugging information, etc.), core and drill cutting samples for wells drilled in Ontario, maps of well locations, and open file reports on the industry. Clients can review materials in the Library, and if relevant, take copies of the data files for studying outside of the Library.

The Library organizes data for use in Geographic Information Systems (GIS) and provides assistance to industry members looking to set up their own GIS system. Data available includes open-source base data maintained by Ontario and industry specific data layers maintained by the Library. A full-time technician with expert training in GIS software is available to meet all client requests. Other laboratory work relating to drill cutting sampling and rock core sampling are also available.

The Library also operates a dynamic website ([www.ogsrlibrary.com](http://www.ogsrlibrary.com)) that contains all relevant data from the Ontario government electronic database, from hard copy records held in the Library, and from special electronic databases created by the Library. Member access includes individual well history complete with geology, analysis, geophysical logs, production, plugging and stimulation. The data is available to view in electronic format and all the original documents are accessible as scans.

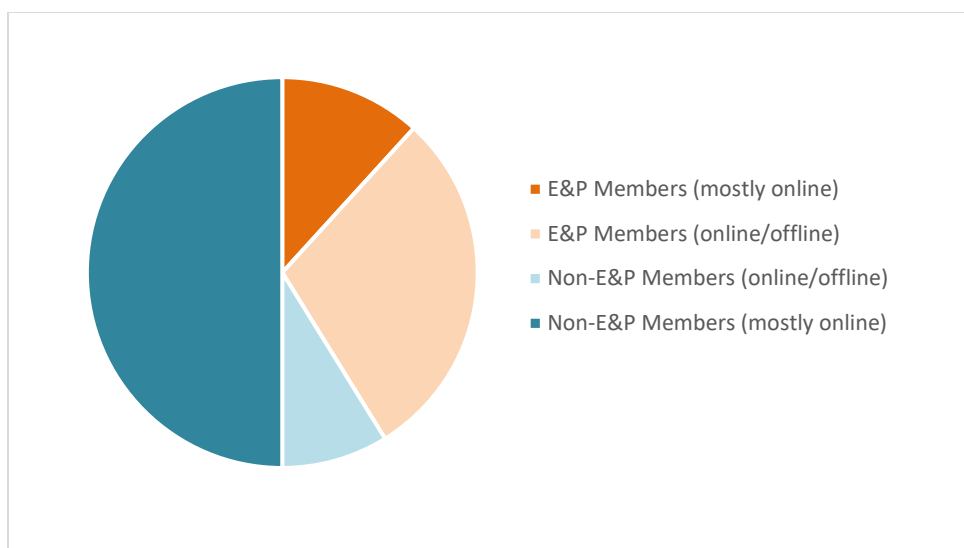


Figure 1: Member Segments by Member Business Focus and Online vs. Offline Usage of Library Resources

As seen above in figure 1, most members of the Library use the resources exclusively online (saturated colours). Further, most current Library members operate businesses outside of hydrocarbon exploration and production (E&P) as indicated by the teal segments of the chart. This highlights the need for the Library to continue focusing and acquiring members outside of the founding exploration and production segments that can utilize the resources exclusively online.

The Library website posts all basic digital petroleum well data for all the counties in Ontario as a complimentary downloading (well location and historical data). A set of enhanced and value-added subsurface data for all counties is available for purchase. The website receives regular updates of verified county data and digital data products. The Library staff utilizes this digital data for plotting specialized maps that combine different data types including well locations, bedrock geology, bedrock topography, oil and gas pools, and digital elevation models for Ontario as well as incorporating results from data queries and filters.

All drill cores and rock chip samples from the Ontario petroleum industry submitted to the Library are processed, catalogued, and stored on-site. Over 12,000 wells with drill samples and 1,100 drill cores are in the Library warehouse. This unique catalogue of raw scientific material is available for viewing and analysis by clients, industry members, consultants, governments, academics, or members of the public. A laboratory is available at the facility for client use and stocked with basic chemicals and equipment for this purpose. Remote users of the Library can request [high-resolution core photography](#) and Library staff can take samples at their request. In most cases, cores at the Library may be sampled and those samples removed from the Library of analysis. In the case of material removal, a small amount of material must always be retained, and the results of the analysis must be added to the Library archives for publication after an agreed upon period.

The Production Module for the Library's well database now incorporates all 80,000-production forms scanned. The forms posted on the website are available for viewing at no charge by the public. This module also contains digitized monthly production data for all wells completed between 1992 and 2016. Annual production reports by well are available from 1967 to 1991. Prior to 1967 production is recorded on a geographic basis dating back to 1897. The Library has over 8 million rows of digital production data available for query and download by individual and corporate members.

Production data from 2017 to 2022 has been scanned and is being made available to members digitally. These years, and all future years, will also be brought to the digital database as requests for this type of data have become increasingly popular, especially from researchers working in the basin but located outside Ontario.

In late 2021 access to production scans, production databases, GIS products, and specialty data tables was greatly enhanced by the introduction of a member's download section in the data area of the website ([www.ogsrlibrary.com/data\\_free\\_petroleum\\_ontario#member-data](http://www.ogsrlibrary.com/data_free_petroleum_ontario#member-data)). This new section exposed a catalogue of member only datasets that were previously available only by request. This list is visible to all visitors of the website, but only active members may download the data.

## **5.3 Ongoing Initiatives**

### **5.3.1 Digital Access to all Oil, Gas and Salt Resources Act (OGSRA) Well Records**

All the public well file documents stored at the Library are scanned and available on-line to members, thanks to an initial project with MNRF. On-line and hard copy sets of OGSRA well records are constantly maintained and being made accessible to the public by the Library.

### **5.3.2 Custom Datasets for Industry Partners**

The Library has worked closely with MNRF, OGS, and GSC to create custom data products for their use. The Library will continue to use its one of a kind collection of drill cuttings, rock cores, and geophysics to provide value to our government clients.

### **5.3.3 High Resolution Core and Rock Cutting Photography**

Core photography and chip sample microscope photography are services made available to enable remote viewing of rock samples. Photographs are done by request and by Library staff on an ongoing basis to create an always accessible catalogue of images.

In 2021 the catalogue of medium-resolution core photographs was made accessible through various channels, including well cards hosted on-line and PxTools for *Google Earth*. This brought 28,000 core photos online in addition to 2,500 chip sample photographs already on-line in the PxTools channel. Over 30,000 rock images are available to browse.

The Library does not see this as a replacement to in-person viewing of samples but a new tool that will allow viewing and comparison of far more samples than was previously possible. It may reveal new patterns and trends to users that could not be identified observing a smaller sample set. In-person core and chip sample viewing will be enhanced by clients being able to identify samples of interest with more accuracy before attending the facility.

### **5.3.4 Quality Assurance of Geology Database**

Geologic data from the OGSRA well geology database has become a critical input to models created by various government agencies. The Library has been working with the Geological Survey of Canada (GSC), Ontario Geological Survey (OGS), and Ontario Ministry of Natural Resources and Forestry to ensure high quality data is available for modelling. Previous modelling efforts have highlighted errors in the geological data. Technicians working at the Library correct the data and distribute it to current and future modelers.

### **5.3.5 Annual Pools and Pipelines Map**

Following the submission of annual reports, the Library does a review of pool production and boundaries. These new submission are used to update pool boundaries and the results, along with the recent year's production statistics, are published on a hard copy map. Sponsors of the 2020-present maps will also receive on-line advertising on the Library website and inside the Library's *PxTools* overlay for *Google Earth* that is heavily trafficked by industry.

### **5.3.6 Seismic Surveys and Shot Lines**

Each year the Library uses reports from operators to update a geographic database of seismic survey locations. This database appears online through the Library's PxTools product for *Google Earth* and the raw data is available directly from the Library. Going forward the Library will be looking to enhance its database of seismic survey locations with links to vendors and actual data if it should present itself.

### **5.3.7 Log Digitizing**

TGI research provided budget for hardware/software to scan and digitize hard-copy geophysical well logs, and some funding for personnel to acquire select project logs. Staff have been trained on digital acquisition and can digitize logs upon client request. A fee for this work is charged. There is a continuous review of current digital data pricing. Demand for digital log formats have been strong in 2021, 2022, and 2023; in response the Library is investing in digitizing more logs.

### **5.3.8 Digital Data Publishing**

The Library will continue to work, in partnership with the MNRF to build, maintain and market a digital database of geological and engineering information on wells drilled in Ontario. The Library will be the data vendor for information on Ontario oil, gas, and salt and storage resources, based on the Data Resale Agreement with MNRF. New data is constantly being uncovered and added to the library catalogue. Addition of a large format scanner at the Library has enhanced data capture capabilities by extending them to larger maps and documents.

### **5.3.9 Digital Archiving of Geophysical Log**

A major undertaking in 2012 was the digital log archiving that produced over 20,000 geophysical log scans from paper records and became the ultimate backup and an on-line resource. Maintenance of this catalogue continues with newly received logs added periodically. Enhancements for 2023 include more conversion of scanned raster logs into true digital vector form. The Library has updated its log digitizing software, digitizing procedure, quality assurance steps, and trained new staff to continue this work in 2023 and into 2024.

### **5.3.10 Petroleum Production Digitizing**

The MNRF provided funding to create a full digital backup of all annual reports, including production documents, and create a searchable database of petroleum production. In all, 80,000 records were scanned and about 500,000 months of production were entered into the database by Library staff using a custom build on-line digitizing portal. The operator can now query and aggregate the information on production, formation, location and on other criteria on a per well basis instantaneously. After verifying the submitted reports, the scanned records and the database are updated.

### **5.3.11 Virtual Reality, 3-D Modelling and Printing**

Virtual reality and other 3-D mediums have become an important tool for science communication allowing people to visit and experience locations deep in the subsurface that are impossible to explore otherwise. Using 3-D modelling assets created in conjunction with GSC

and OGS the Library can create 3-D, 360 virtual reality experiences to help people understand the Paleozoic geology of Ontario. Models can also be 3-D printed to enhance the hands-on subsurface experience that was previously limited to point samples of rock cutting and core. These communication products will result in a new service that can be provided to clients, the public, and educational institutions. Communication via these new mediums aligns with the Library's information management goals by helping people understand the type of information available and some potential applications.

#### **5.4 Current and New Activity:**

- Improvements to the warehouse space are required in 2024 to make space for newly drilled cores by improving the storage efficiency of duplicated and older cores. Purchase of several large racks and hiring of staff will be required.
- MNRF has an operational database of all licensed wells in Ontario within the Ontario Petroleum Data System (OPDS). OGSRL uses the OPDS data to update well cards on the website and provide digital access. In the event of a disruption to OPDS access the OGSRL will continue to serve data from the latest OPDS snapshot until alternatives can be arranged.
- Sale of value-added subsurface data from OPDS by the Library, that began in 2003, will continue through 2024. Data consists of geological formation tops, logging records, and oil/gas/water interval records. The Library will continue to update and enhance these records as part of its work with various project partners.
- Improvements to the lab space include more supplies available to clients and more services. This includes additional core photography, thanks to support from the Ontario Geological Survey (OGS).
- Well production history is one of the most sought-after items by Library users. The Library has produced a digital dataset of well production history and has posted the data for viewing on its website for use by members. Data tables are now available as downloads to members.

## ***6.0 Marketing***

In 2024, the OOGSRC will promote its services to the Ontario oil and natural gas exploration and production, underground storage, salt solution mining and the groundwater industries, and market the Library as a resource centre and provider of member and client services.

These activities will support generating Library sources of non-fixed revenue from six strategic areas:

- **Projects**
- **Membership**
- **Data sales**
- **Data and Mapping Services**
- **Publications and Products**
- **Specimen Processing, Access, and Sampling**

### ***6.1 Business Development***

The Trust's business development activity will target additional project work, sales of information and data, new memberships, publications, and direct support of client activity through data enhancement services. Data enhancements will focus mainly on delivery via a self-serve on-line portal. Library data services and specimens will be promoted to various research parties, belonging to governments and academic institutions, to secure ongoing projects and increase use of Library facilities.

Self-serve actions on the Library website will be developed to allow member sign-ups, renewals, and purchase of data. The Library seeks to automate all repetitive requests for data that require employee intervention. Clients will have faster access to the data products they require, since all products will be listed and immediately accessible upon purchase. Once distribution and access is automated staff will be focus more efforts on creating and updating data products for the distribution channels.

The self-serve portal may also lead to an increase in sales to one-time customers. Individual well files, 3-D models, and conference volume proceedings are relatively inexpensive one-time purchase items that appeal to a broad base of customers from within the Library's existing customer base and to new one-time customers.

The geographical markets are Ontario, Alberta, and the mid-western and northeastern USA. In Ontario, users are primarily the operator of oil and gas wells or other wells licensed under the OGSRA, consultants to these companies, environmental consultants and researchers. In 2024 this may include operations related to newly licensed compressed air storage wells or consultants interested in hydrogen and carbon capture and sequestration. Outside of Ontario, potential clients are resource exploration companies considering new locations for investment or doing research on the wider basins.

The Library will continue to look for opportunities to sell data and information (see Appendix 1), primary assets that the Library has to offer current and potential clients. Various sectors of the economy – energy, telecommunications, construction – responding to market conditions and

regulations, specifically environmental compliance, may require resources offered by the Library.

Potential project work opportunities may come from the Ontario Ministry of Natural Resources and Forestry, Ontario Geological Survey, Natural Resources Canada, member companies, educational institutes, or individuals.

Markets for membership include the oil and gas sector, hydrocarbon storage and salt solution mining companies that fall under the jurisdiction of the MNRF. Academics, researchers, and environmental consultants form an important, and growing, membership market. The other membership potential is with any sector that does subsurface work in Ontario. This includes government ministries and agencies, companies providing geotechnical, geothermal and groundwater services, academic researchers, and the public. With a focus on providing all the member resources through the website geographic barriers for membership have been removed.

## ***6.2 Promotion***

The OOGSRC's promotional activity will focus on developing relationships with organizations that work with subsurface geological data.

Library services and resources will be promoted to government ministries and agencies already involved in regulating the subsurface.

Online promotion and enhanced communication through the website will draw more customers and members once the website is developed to handle e-commerce directly. This promotion will occur through an existing network of social media channels cultivated over the past several years using paid and unpaid media.

The list of potential conferences in 2024 will include:

- EPEX 2024 OPI 61st Conference and Trade Show, June 1st
- Regional-Scale Groundwater Geoscience Open House, February TBD
- Western University GIS Days, November, TBD

The Library will add EPEX 2024 conference talk videos to its *YouTube* channel, a stream that has generated thousands of views annually. Videos guiding visitors through the Library website and data channels will also be published as an always-on virtual attraction.

These conferences as well as others offer potential opportunities for the OOGSRC to collaborate with other organizations, the OPI and MNRF to maximize its exposure. As in-person events continue to return the Library will seek more opportunities to showcase new virtual reality and 3-D printed material that both provide more immersive data experiences and highlight what is possible with Library data.

## ***7.0 Budget***

### ***7.1 Revenue***

The Trust has fixed and non-fixed revenue.

Fixed revenue comes from well license fees collected annually through Ontario Regulation 245/97 that obligates producers to pay a yearly production-based fee assessed by the MNRF. Fixed revenue is projected to decline by a small amount in 2024 with production volumes.

The non-fixed revenue comes from memberships and data sales and is expected to remain strong in 2024 with improvements to the website and online member signup and interest in new bedrock resource uses.

Revenue for Special Projects is expected to be more than \$225,000 due, in part, ongoing and potential projects with the Geological Survey of Canada (GSC), Ontario Geological Survey, and Ministry of Natural Resources and Forestry.

The 2024 Library fee schedule is attached as Appendix 1.

### ***7.2 Expenses***

The Trust expenses for 2024 are anticipated to increase due to higher staffing costs associated with a larger volume of projects. Internal investment expenses include additional staff to address a backlog of warehouse operations and \$10,000 to create in-person and virtual core workshops. A capital expenditure of \$15,000 is allocated for shelving to provide additional storage capacity for rock cores.

Expenses related to telephone, internet, and copying have continued to rise in recent years and alternative vendors will be explored to curtail these costs.

The details on the expenses are in Appendix II Oil, Gas and Salt Resources Trust Budget. In accordance with the Trust Indenture the budget must be approved by TAC.

## ***8.0 A Sustainable Future***

The Oil, Gas and Salt Resources Trust has successfully supported the oil and natural gas industry, hydrocarbon storage, and the salt/solution mining, geological fluid, and subsurface industries with an interest in the Paleozoic rocks of Ontario.

A contingency reserve of over \$700,000 has been built to ensure it has operational stability.

## ***9.0 Oil, Gas and Salt Resources Trust Priorities 2024***

Enhance the website hosted at ogsrlibrary.com to provide a more coherent user experience, expose more data, and become completely self-serve. Create a more secure and seamless experience for users on all browsers and platforms, desktop and mobile. Continue to expose more member products and products available for purchase through the website.

Promote the use of Library resources in the exploration of existing and novel sedimentary rock resources and uses in Ontario through a series of core workshops to be presented in conjunction with the annual industry conference. Persistent version of the core workshops will also be made available as recording or augmented reality experiences.

Conduct a business development campaign targeting various Government of Ontario ministries and sector associations to promote the Library's services and systems expertise.

GIS services and products - provide the most up-to-date data available and develop a broad selection of products based on an expanding database of subsurface sources to offer members and clients. GIS and database building are an essential part of being able to offer clients the data they require to advance their business interests. This includes maintaining GIS systems and staff with expertise in operating those systems and responding efficiently to client requests. The role of GIS professionals at the Library will shift from focusing on one-on-one service to maintaining data available to all users through an on-line portal and creating new 3D assets for AR and printing.

Upgrade core storage racking in the Library warehouse and organize cores to make room to receive newly drilled cores. Have staff reorganize warehouse space. Draft a long-term core storage plan with MNRF to deal with duplicate cores and overflow of core warehouse. Continue working with MNRF to ensure that rock core and sample processing fees are increased to reflect recent increases in expenses.



## **Appendix I**

### ***2024 Fees - Oil, Gas and Salt Resources Library***

#### **Membership Fees:**

|                                      |              |
|--------------------------------------|--------------|
| Annual fee – corporate               | \$1,975/year |
| Annual fee – individual              | \$690/year   |
| Premium Geophysics and Raster Access | \$500        |

#### **User Fees:**

|                             | <b>Member</b> | <b>Non-Member</b>               |
|-----------------------------|---------------|---------------------------------|
| Use of Core & Cuttings Room | No fee        | \$20/hour<br>Plus, setup charge |

|                                   |        |           |
|-----------------------------------|--------|-----------|
| Use of File & OGSRL Research Room | No fee | \$10/hour |
|-----------------------------------|--------|-----------|

#### **Copying**

|                                                                                 |          |          |
|---------------------------------------------------------------------------------|----------|----------|
| Standard copying charge<br>(self-serve photocopy, custom staff e-mail, and pdf) | 25¢/copy | 50¢/copy |
|---------------------------------------------------------------------------------|----------|----------|

|                                       |       |          |
|---------------------------------------|-------|----------|
| Geophysical log copying on paper bond | \$5/m | \$7.50/m |
|---------------------------------------|-------|----------|

|                         |      |      |
|-------------------------|------|------|
| Plotting (D-Size sheet) | \$25 | \$25 |
|-------------------------|------|------|

#### **Research and Data Retrieval**

|                                                                |           |           |
|----------------------------------------------------------------|-----------|-----------|
| General Research/Retrieval by OGSRL Staff:<br>(1-hour minimum) | \$35/hour | \$55/hour |
|----------------------------------------------------------------|-----------|-----------|

|                                                                     |           |           |
|---------------------------------------------------------------------|-----------|-----------|
| Digital Data Research/Retrieval by OGSRL Staff:<br>(1-hour minimum) | \$65/hour | \$95/hour |
|---------------------------------------------------------------------|-----------|-----------|

#### **Digital Products and Services**

|                                                                                          |        |               |
|------------------------------------------------------------------------------------------|--------|---------------|
| Ontario Digital Base Maps (GIS)<br><i>GIS (shape file) coverage of Southern Ontario.</i> | No fee | Not Available |
|------------------------------------------------------------------------------------------|--------|---------------|

Digital Surface Data (DBF) FREE at [www.ogsrlibrary.com](http://www.ogsrlibrary.com)

*Well location and historical information for over 26,000 well records.*

|                               |         |          |
|-------------------------------|---------|----------|
| Digital Subsurface Data (DBF) | \$7,000 | \$10,000 |
|-------------------------------|---------|----------|

|                          |       |     |
|--------------------------|-------|-----|
| Data Maintenance Updates | \$450 | N/A |
|--------------------------|-------|-----|

*Digital tables with oil, natural gas, water, casing, logging and geological formation intervals.*

Geophysical Logs

\$15.00/image (TIFF)

\$20.00/smart raster (depth calibrated TIFF)

\$25.00/LAS curve

Core Photos: \$15/box (set of three: dry, wet, UVF)

### Maps

Pool & Pipelines of Southwestern Ontario \$60/map

*Oil and gas pools, underground storage and major pipelines map at 1:400,000*

(The pools and pipeline map will be updated and available for purchase on a yearly basis)

Well Location Maps:

|             |      |
|-------------|------|
| E-size plot | \$50 |
|-------------|------|

|             |      |
|-------------|------|
| D-size plot | \$25 |
|-------------|------|

*Over 26,000 well locations plus roads, rivers and other culture.*

### Spacing Orders

Free PDF at [www.ogsrlibrary.com](http://www.ogsrlibrary.com)

E-size plot - \$50.00

### Sample Processing Fees - New Wells

|                              |                |
|------------------------------|----------------|
| Cuttings Bagged and Unwashed | \$3.90 per bag |
|------------------------------|----------------|

Minimum one bag per three metres or one bag per six metres in a horizontal segment.

|                             |                 |
|-----------------------------|-----------------|
| Cuttings Washed and Vialled | \$2.60 per vial |
|-----------------------------|-----------------|

Minimum one vial per three metres or one vial per six metres in a horizontal segment.

### Core Processing Fee

|                                 |            |
|---------------------------------|------------|
| Delivered, not to specification | \$45/meter |
|---------------------------------|------------|

|                                     |            |
|-------------------------------------|------------|
| Delivered, to Library specification | \$15/meter |
|-------------------------------------|------------|

### Miscellaneous

Exclusive use of Core & Cuttings Room - \$300.00/day

Shipping & Handling - \$15 plus postage

Shipping & Handling applies to all products not picked up at the OGSRL

**All fees are subject to applicable taxes.**



## ***Oil, Gas and Salt Resources Library***

