

Gemina Laboratories Ltd.

Management Discussion and Analysis
(in Canadian dollars)

For the three months ended April 30, 2024

Gemina Laboratories Ltd.

Management Discussion and Analysis

For the three months ended April 30, 2024

This management discussion and analysis (“**MD&A**”) should be read in conjunction with the unaudited condensed interim consolidated financial statements and notes of Gemina Laboratories Ltd. (“Gemina” or the “**Company**”) for three months ended April 30, 2024. Our unaudited condensed interim consolidated financial statements are prepared in accordance with International Financial Reporting Standards (“**IFRS**”) as issued by the International Accounting Standards Board (“**IASB**”) and all dollar amounts are expressed in Canadian dollars unless otherwise noted. In this discussion, unless the context requires otherwise, references to “we” or “our” are references to Gemina. Additional information relating to our Company is available by accessing the SEDAR website at www.sedar.com.

All information contained in this MD&A is current as of June 28, 2024, unless otherwise stated.

Forward Looking Statements

Certain statements and information in this MD&A contain forward-looking statements or forward-looking information under applicable Canadian securities legislation that may not be based on historical fact, including, without limitation, statements containing the words “believe”, “may”, “plan”, “will”, “estimate”, “continue”, “anticipate”, “intend”, “expect”, “predict”, “project”, “potential”, “ongoing”, “could”, “would”, “seek”, “target” or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words and similar expressions.

Forward-looking statements are necessarily based on estimates and assumptions made by us in light of our experience and perception of historical trends, current conditions and expected future developments, as well as factors that we believe are appropriate. Such forward-looking statements reflect our current views with respect to future events, are subject to risks and uncertainties and are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Gemina as of the date of such statements, are inherently subject to significant scientific, business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause our actual results, performance, achievements, prospects or opportunities to be materially different from any future results, performance or achievements that may be expressed or implied by such forward-looking statements. In making the forward-looking statements included in this MD&A, the Company has made various material assumptions, including, but not limited to: (i) obtaining any regulatory approvals; (ii) assumptions regarding general business and economic conditions; (iii) the Company’s ability to successfully develop its products; (iv) that the Company’s current positive relationships with third parties will be maintained; (v) the availability of financing on reasonable terms; (vi) the Company’s ability to attract and retain skilled employees and consultants; (vii) assumptions regarding market competition; (viii) the products and technology offered by the Company’s competitors and (ix) the Company’s ability to protect patents and proprietary rights.

In evaluating forward-looking statements, current and prospective shareholders should specifically consider various factors,

- the Company’s operations could be adversely affected by possible future government legislation, policies and controls or by changes in applicable laws and regulations;
- the volatility of global capital markets over the past several years has generally made the raising of capital more difficult;
- risks associated with political instability and changes to the regulations governing the Company’s business operations;
- the success of the Company is largely dependent on the performance of its directors and officers;
- the Company and/or its directors and officers may be subject to a variety of legal proceedings, the results of which may have a material adverse effect on the Company’s business;

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- the Company may be adversely affected if potential conflicts of interests involving its directors and officers are not resolved in favour of the Company;
- if securities or industry analysts do not publish research or publish inaccurate or unfavourable research about the Company's business, the price and trading volume of the Common Shares could decline;
- there is no existing public market for the Common Shares and an active and liquid one may never develop, which could impact the liquidity of the Common Shares;
- the Common Shares may be subject to significant price volatility;
- dilution from future equity financing could negatively impact holders of Common Shares;
- internal controls cannot provide absolute assurance with respect to the reliability of financial reporting and financial statement preparation;
- upon becoming a reporting issuer, the Company will be subject to costly reporting requirements;
- the Company may be unable to implement its business strategy;
- the Company may be unable to manage its growth;
- risks associated with security breaches;
- the Company's failure to maintain, promote and enhance its brand status;
- the Company's business now or in the future may be adversely affected by risks outside the control of the Company;
- risks associated with the Company's reliance on strategic partnerships;
- reputational risk; and
- risks associated with protection of intellectual property.

Should one or more of these risks or uncertainties, or a risk that is not currently known to us, materialize, or should assumptions underlying those forward-looking statements prove incorrect, actual results may vary materially from those described herein. These forward-looking statements are made as of the date of this MD&A and we do not intend, and do not assume any obligation, to update these forward-looking statements except as required by applicable securities laws. Investors are cautioned that forward-looking statements are not guarantees of future performance and are inherently uncertain. Accordingly, investors are cautioned not to put undue reliance on forward-looking statements.

1 Overview of the Company

Gemina Laboratories Ltd. (the “Company” or “Gemina”) operates under the name “Gemina Labs.” The Company was incorporated under the laws of British Columbia on October 10, 2017. On February 10, 2021, the Company changed its name from “D1 Capital Corp.” to “Gemina Laboratories Ltd.”. The Company’s head office is located at Unit 302 - 3600 Gilmore Way, Burnaby, BC, Canada, V5G 4W8, and its registered office and records are located at 10th floor, 595 Howe Street, Vancouver, British Columbia. The Company is traded on the Canadian Securities Exchange under the symbol GLAB and as of June 24, 2024, on the OTCQB under the symbol GLABF.

The Company is a biotechnology company that currently operates in the *In Vitro* Diagnostics (“**IVD**”) and human wellness monitoring markets under the name “Gemina Labs”. The Company has developed novel surface functionalization chemistries for the detection of pathogens and biomarkers (the “**Gemina Surface Chemistry**”) with a focus on respiratory diseases. The Company recently completed the development of its first lateral flow test, the Legio X™ COVID-19 Rapid Antigen Test (“Legio X™”), validating the Gemina Surface Chemistry on this platform. The Company is pursuing extensions to its lateral flow test pipeline to include a combination Flu A/B and Covid 19 antigen test and a Streptococcus respiratory test. Additionally, the Company, in collaboration with ReadyGo Diagnostics (a UK Company), is investigating a new platform that utilizes the Gemina Surface Chemistry for molecular assays for diagnosis, the first target being Tuberculosis.

Given the broad, potential application of the Gemina Surface Chemistry, the Company plans to enter into strategic commercial partnerships in respect of applications outside its core respiratory diagnostic focus.

2 Recent developments

LEGIO-X™ COVID RAPID ANTIGEN TEST

The Company’s first product developed, the Legio-X™ COVID Rapid Antigen Test, is a Point of Care (“POC”) COVID Rapid Antigen Test that embeds the Gemina Surface Chemistry in a lateral flow assay test strip and is used to determine if a person is infected with COVID-19. An antigen test is designed to confirm whether a pathogen is present in the subject to a detectable level, providing a very good indication of infection. Unlike nucleic acid-based tests such as PCR, which detect the presence of genetic material, the Company’s POC COVID Antigen Test detects a protein found on the surface of the COVID-19 virus.

The development path for Legio-X™ COVID Rapid Antigen Test involved: the development of a prototype (June 2021) and the prototype transfer to a manufacturing partner (IPOC) for manufacturing process development and small scale production for Phase 1 studies; the completion of Phase 1 (September 2021) demonstrating that the test was able to detect 1 ng/mL of SARS-CoV-2 N protein in pooled human saliva; the completion of sensitivity and specificity trials utilizing more than 500 human clinical samples culminating in the grant of the CE Mark for the European Union (May 2022); and the completion of a large-scale, manufacturing process development, suitable for commercial manufacturing of Legio-X™ COVID Rapid Antigen Test (Dec 2022).

In 2023, the market for Covid tests has reduced significantly but the market for Covid/Flu combination tests is growing, and evidence is that the Covid and Flu testing markets will combine. With Gemina’s progress on the development of their Flu test the Company is well positioned to

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take advantage of this. Gemina is currently investigating various manufacturing and distribution plans before launching these respiratory combination tests commercially.

Pipeline

In 2022, the Company initiated the development of a pipeline of products for the diagnosis of infectious respiratory diseases. The completion of Gemina's prototype Flu A/B test in December 2022 triggered the full development phase of this project and allowed for the commencement of feasibility studies for a new Streptococcus respiratory test, the next target in our respiratory panel.

To date, Gemina's focus has been on developing tests using the lateral flow assay ("LFA's") platform, but the Company recognised that lateral flow technology would not be suitable for diagnosing all respiratory disorders. To address this, the Company established a master services and license agreement with ReadyGo Diagnostics ("ReadyGo" of the United Kingdom. Under this agreement the two companies will work together using the ReadyGo Geo and Gemina chemistries to develop and launch a tuberculosis ("TB") test for primary care screening. This programme is designed to deliver Gemina's first molecular assay (i.e. DNA based test). The agreement gives Gemina the rights to market and sell the resulting TB diagnostic test globally, on an exclusive basis.

In June 2023, the Company announced, that in collaboration with ReadyGo, the successful feasibility testing for the detection of Mycobacterium Tuberculosis ("MTB") in a saliva matrix using the ReadyGo GEO platform. This breakthrough in MTB detection paves the way for affordable testing which will have the potential to significantly impact MTB eradication efforts in countries such as India, Indonesia, and other affected regions worldwide.

The Company is also investigating Wellness testing concepts in targeted areas (for instance, in applications such as sports and fitness). Unlike the conventional point-of-care diagnostics market, the market for wellness monitoring is nascent. As such, Gemina's approach is to work with significant customers and research counterparties to help define strong product-market matches.

Research and development

The Gemina research team continues to innovate and further develop our chemistry platform, and during 2022 the Company filed important extensions to its existing patents. These filings include the application of the chemistry to enable the use of novel materials, such as cellulose, in LFA's that are far more environmentally friendly than the current materials used worldwide. Such innovations open the prospect of developing fully bio-degradable lateral flow devices. Gemina foresees a major evolution in test design that includes the use of sustainable materials which, as far as the Company is aware, are only made possible by the versatility and strength of Gemina's chemistry platform.

The patent filings also cover Gemina's "Universal Test Platform" which allows for the creation of an extremely versatile lateral flow test, which is not only more stable, but much more responsive and adaptive to changing needs and diagnostic requirements around the world.

In May 2023 the Company announced that its proprietary surface chemistry reduced the amount of antibody required for nitrocellulose binding, a standard material used in lateral flow assays, by 75%, without affecting the limit of detection, compared to the standard physisorption methods currently used in production.

In July 2023, Gemina deployed cellulose (paper) test strips in the lateral flow assay format, a fully biodegradable, environmentally friendly alternative to the industry-standard nitrocellulose strip. The Gemina team solved this critical challenge by utilizing the Gemina Bridge molecule to anchor

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antibodies (and other biomolecules) to test strips made from a variety of cellulose materials, all of which are fully biodegradable alternatives to nitrocellulose. Developed in the 1800's, nitrocellulose is formed by treating cellulose with a mixture of nitric and sulfuric acids to produce a flammable compound that only degrades slowly in the environment, releasing nitric acid in the process.

Strategic partnerships and investments

On April 2, 2024, the Company announced its first strategic license deal.

Personnel

Dr. Robert Porter did not stand for re-election as a director at the Company's recent AGM on May 13, 2024 and no longer holds the position of president.

Financings

Short term loan

On October 10, 2023, and subsequently amended in May 2024, the Company entered into a short-term, secured, loan agreement with two creditors. Under the terms of the agreement the Company received aggregate proceeds of \$200,000 (US\$150,000) from the creditors, re-payable on June 30, 2024. The loan is secured by the assets of the Company.

As interest for the loan, the Company is required to issue an aggregate 100,000 common shares to the creditors on repayment of the loan. On receipt of the loan, the Company recognized an obligation to issue shares of \$45,000 and a corresponding deferred financing expense based on the trading price of the Company's common shares on the date the funds were received. As at January 31, 2024, the Company had recognized \$19,261 as a finance expense and the remaining amount will be recognized over the term of the loan.

Private placement of convertible notes

On March 18, 2024, the Company raised gross proceeds of \$910,000 under its non-brokered private placement of unsecured convertible notes ("Notes") of the Company. The Notes have a maturity date (the "Maturity Date") of 12 months from the date of issuance, unless earlier converted in accordance with the terms of the Notes. At the option of the Note holder, any principal amount (the "Principal") may be converted into common shares in the capital of the Company ("Common Shares") at a price per Common Share equal to:

- (i) \$0.50 (the "Standard Conversion Price"); or
- (ii) in the event the Company completes an equity financing prior to the maturity date (the "Future Offering").

The Note holder may elect to convert the outstanding principal into common shares at any time prior to the maturity date. If the Note holder elects not to convert the outstanding principal into common shares until after completion of the Future Offering, the conversion price will be equal to the Standard Conversion Price, subject to an 8% increase every 30-days up to a maximum price that is equal to the issue price (the "Future Issue Price") of the securities offered in the Future Offering. If at any time after completion of the Future Offering, the 10-day volume-weighted-average-price of the common shares is equal to or greater than the price which is 10% higher than the Future Issue Price, there will be a forced conversion of principal into common shares at the Future Issue Price.

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Interest on the Notes will accrue at a rate of 10% per annum, payable in cash on the maturity date or in the case of conversion of the entire principal, at the time of conversion. The Note holder may elect to have the interest repaid in cash or converted into common shares at the applicable conversion price, in accordance with the terms of the Note and by providing the Company with written notice of such election.

The Company intends to use the proceeds from the Private Placement for general working capital and corporate purposes.

All securities issued in connection with the private placement will be subject to a four-month hold period from the date of issue under applicable Canadian securities laws, in addition to such other restrictions as may apply under applicable securities laws of jurisdictions outside Canada.

Exercise of warrants

On May 3, 2024, the Company received proceeds of \$81,777 following the exercise of 181,727 warrants.

Related party promissory note

On May 27, 2024, the Company agreed a loan facility in the form of a promissory note for proceeds of \$150,000 from a related party. The unsecured loan is non-interest bearing, due on demand and may be repaid in cash or converted to equity at the option of the holder. The conversion to equity would be based on the share price of a future equity financing.

3 Selected Financial Information

The financial information reported here-in has been derived from the consolidated financial statements prepared in accordance with IFRS as issued by the IASB. The Company uses the Canadian dollar as its functional and presentation currency. From time to time, the Company may deal with several research and development contractors, consultants and suppliers in other countries. Our financial results may be subject to fluctuations between the Canadian dollar and other international currencies.

The table below sets forth unaudited quarterly results prepared by management for the eight previous quarters to April 30, 2024:

| | April 30, 2024 | January 31, 2024 | October 31, 2023 | July 31, 2023 |
|--|-----------------------|-------------------------|-------------------------|----------------------|
| Research and development expenses | \$207,979 | \$534,174 | \$278,020 | \$883,350 |
| General and administration expenses | \$597,318 | \$504,370 | \$593,966 | \$694,771 |
| Finance expense | \$19,942 | (\$276,872) | \$296,133 | - |
| Loss and comprehensive loss | \$825,239 | \$761,672 | \$1,168,119 | \$1,578,121 |
| Basic and diluted loss per share | \$0.01 | \$0.01 | \$0.02 | \$0.02 |

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| | April 30, 2023 | January 31, 2023 | October 31, 2022 | July 31, 2022 |
|--|----------------|------------------|------------------|---------------|
| Research and development expenses | \$896,644 | \$1,312,374 | \$691,794 | \$1,567,560 |
| General and administration expenses | \$812,233 | \$643,683 | \$559,784 | \$422,653 |
| Loss and comprehensive loss | \$1,708,877 | \$1,956,057 | \$1,251,578 | \$1,990,213 |
| Basic and diluted loss per share | \$0.02 | \$0.03 | \$0.02 | \$0.03 |

The following table represents selected financial information for the Company's three months ended April 30, 2024 and 2023.

Selected Consolidated Statement of Loss and Comprehensive Loss:

| | Three months ended April 30, 2024 | Three months ended April 30, 2023 |
|--|-----------------------------------|-----------------------------------|
| Loss and comprehensive loss | \$825,239 | \$1,708,877 |
| Weighted average number of shares | | |
| Basic and diluted | 73,325,878 | 69,786,387 |
| Basic and diluted loss per share | \$0.01 | \$0.02 |

The Company incurred a loss and comprehensive loss for the three months ended April 30, 2024, of \$825,239 compared to a loss and comprehensive loss of \$1,708,877 in the corresponding period of the prior year. The decreased loss reflects reduced net operating expenses as described below.

Selected Consolidated Statements of Financial Position:

| | April 30, 2024 | January 31, 2024 |
|---------------------|----------------|------------------|
| | \$ | \$ |
| Cash | 1,665 | 990 |
| Current assets | 101,732 | 92,667 |
| Total assets | 1,438,545 | 1,456,288 |
| Current liabilities | 3,481,684 | 2,835,500 |

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| | | |
|---|-------------|-------------|
| Total liabilities | 3,666,748 | 3,041,482 |
| Total shareholders' equity (deficiency) | (2,228,203) | (1,585,194) |

During the three months ended April 30, 2024, cash increased to \$1,665 (January 31, 2024 - \$990) primarily due to the net funds received from a private placement.

Results of Operations:

| | Three months ended April 30, 2024 | Three months ended April 30, 2023 |
|------------------------------------|---|---|
| | \$ | \$ |
| Operating expenses | | |
| Research and development | 207,979 | 896,644 |
| General and administrative | 597,318 | 812,233 |
| Finance expense | 19,942 | - |
| Loss and comprehensive loss | 825,239 | 1,708,877 |

Operating expenses - Research and Development

Our research and development expenses consist primarily of personnel compensation, research and development contractors, materials and supplies, and intellectual property expenses net of grant funding.

Research and development expenses were \$207,979 for the three months ended April 30, 2024 compared to \$896,644 for the corresponding period last year. The decrease in research and development expenses related primarily to reduced contractor fees, contract research expenses and salaries.

The Company expects to continue pursuing the following activities as funding allows:

- development of our first molecular assay in TB with our collaborator ReadyGo Geo
- investigation of potential wellness applications utilizing Gemina Surface Chemistry
- investigation of Gemina Surface Chemistry in conjunction with affimers as an alternative to antibody-based tests.
- development of protein production technologies and manufacturing processes.

Operating expenses - General and Administrative

Our general and administration expenses consist primarily of personnel expenses, professional fees, office related expenses and share-based compensation.

General and administration expenses for the three months ended April 30, 2024, were \$597,318 compared with \$812,233 for the prior year. The decrease reflects lower share-based compensation expense, contractor and professional fees for the period.

4 Liquidity, Capital Resources and Outlook

| | April 30, 2024 | January 31, 2024 |
|------|----------------|------------------|
| | \$ | \$ |
| Cash | 1,665 | 990 |

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| | | |
|-----------------------------------|-------------|-------------|
| Working capital (deficit) | (3,379,952) | (2,742,833) |
| Shareholders' equity (deficiency) | (2,228,203) | (1,585,194) |

As at April 30, 2024, the Company had cash of \$1,665 and net working capital deficiency of (\$3,379,952) compared to cash of \$990 and a net working capital deficiency of (\$2,742,833) at January 31, 2024. Cash from financing activities was offset by cash used in operations. The increase in the working capital deficiency reflects a net increase in current liabilities as a result of the Notes liability, partially offset by the net pay down of accounts payable with the proceeds from the Notes financing.

Management of Cash Resources

The Company uses cash flow forecasts to estimate cash requirements for the ensuing twelve-month period. Based on these requirements, we seek to raise equity capital as required to provide the necessary financial resources for operations, ideally for a minimum of twelve months. The timing of equity financings will depend on market conditions and the Company's cash requirements. The Company's cash flow forecasts are updated on a regular basis to reflect actual cash inflows and outflows so as to monitor the requirements and timing for additional financial resources.

The Company monitors opportunities to raise equity capital and/or secure additional funding through non-dilutive sources such as government grants and additional license agreements. However, it is possible that our cash and working capital position may not be enough to meet our business objectives in the event of unforeseen circumstances.

Cash Flows for the Three Months Ended April 30, 2024

Cash flows from financing activities

Cash from financing activities was \$805,189 for the three months ended April 30, 2024, compared to \$3,076,598 cash provided by financing activities in the prior year period. In the current period, the cash from financing activities relates primarily to the net proceeds of \$882,841 from the private placement of convertible notes completed March 18, 2024. See "Recent Developments - Financing".

Cash flows from investing activities

Cash flow used in investing activities was \$nil, compared to cash used in investing activities in the prior year of \$34,092 primarily related to the purchase of equipment.

Cash flows used in operations

Cash flows used in operations for the three months ended April 30, 2024 was \$804,514 compared to \$2,063,421 in the corresponding quarter of the prior year. In the current quarter, cash flow used in operations primarily reflect the net loss and comprehensive loss discussed above, adjusted for non-cash items, primarily the add back of share-based compensation and the decrease in non-cash working capital components primarily driven by the paydown of accounts payable and accrued liabilities balances from January 31, 2024.

5 Going Concern

The condensed unaudited interim consolidated financial statements have been prepared on a going concern basis, which assumes that the Company will be able to continue in operation for the

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foreseeable future and will be able to realize its assets and discharge its liabilities in the normal course of operations.

The ability of the Company to continue as a going concern is dependent on its ability to generate future cash flows from operations and obtain additional financing. As at April 30, 2024, the Company had a working capital deficit of \$3,379,952 (January 31, 2024 – deficit \$1,585,194), had not yet achieved profitable operations and had accumulated a deficit of \$17,590,121 since its inception and will require additional funding to maintain its operations. These conditions indicate the existence of a material uncertainty that may cast significant doubt regarding the Company's ability to continue as a going concern.

The condensed unaudited interim consolidated financial statements do not give effect to any adjustments, which would be necessary should the Company be unable to continue as a going concern and, therefore, be required to realize its assets and discharge its liabilities in other than the normal course of business and at amounts different from those reflected in the accompanying condensed interim consolidated financial statements. These adjustments could be material.

6 Long-Term Obligations and Other Contractual Commitments

Contractual Commitments

The Company has entered into a lease agreement with Thermo Fisher Financial Services Inc., with respect to laboratory equipment. The lease commenced on September 1, 2021, with monthly lease payments of \$307 until August 1, 2024.

The Company has entered into a sublease agreement with Anodyne Chemistries Inc, a related party (see Note 11), with respect to its laboratory in Burnaby, British Columbia. The lease commenced on October 1, 2022, with monthly lease payments of \$4,956 until September 30, 2024, \$5,116 from October 1, 2024 to September 30, 2026 and \$5,277 from October 1, 2026 to September 30, 2027.

The Company has entered into a lease agreement with Omnimar Enterprises Inc, to provide additional space for its laboratory in Burnaby, British Columbia. The lease commenced on July 1, 2023, with monthly lease payments of \$3,414 until June 30, 2025 and \$3,517 from July 1, 2025 to June 30, 2026.

7 Transactions with Related Parties

Key management personnel are the persons responsible for the planning, directing and controlling the activities of the Company and include both executive and non-executive directors, and entities controlled by such persons. The Company considers all directors and officers of the Company to be key management personnel.

During the quarters ended April 30, 2024, and 2023, the Company entered into the following transactions with related parties:

- Paid or accrued salaries and benefits of \$62,500 (2023 - \$62,500) to the Chief Executive Officer ("CEO") of the Company and recognized share-based compensation of \$56,946 (2023 - \$124,707) in relation to stock options granted to the CEO.
- Paid or accrued professional fees of \$14,514 (2023 - \$18,853) to a company controlled by the Chief Financial Officer ("CFO") of the Company.

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- Paid or accrued salaries and benefits of \$39,018 (2023 - \$39,018) to the Chief Technology Officer (“CTO”) and director of the Company and recognized share-based compensation of \$1,548 (2023 - \$3,828) in relation to stock options granted to the CTO and director.
- Paid or accrued contractor fees of \$19,687 (2023 - \$40,687) to a company controlled by a director of the Company.
- Recognized share-based compensation of \$22,873 (2023 - \$9,684) in relation to stock options granted to directors of the Company.

As at April 30, 2024, \$2,812 (January 31, 2024 - \$6,343) was included in accounts payable and accrued liabilities owing to the CTO and director of the Company in relation to reimbursement of expenses.

As at April 30, 2024, \$52,613 (January 31, 2024 - \$66,512) was included in accounts payable and accrued liabilities owing to the CEO of the Company in relation to accrued wages (\$41,955) and reimbursement of expenses (\$10,658).

As at April 30, 2024, \$15,238 (January 31, 2024 - \$48,479) was included in accounts payable and accrued liabilities owing to the company controlled by the CFO of the Company in relation to professional fees.

As at April 30, 2024, \$67,042 was included in accounts payable and accrued liabilities owing to a director of the Company in relation to reimbursement of expenses \$1,542 (January 31, 2024 - \$1,542) and director compensation \$65,500 (January 31, 2024 - \$55,875).

As at April 30, 2024, \$114,459 (January 31, 2024 - \$91,765) was included in accounts payable and accrued liabilities in relation to advisory fees owed to a company controlled by a director of the Company.

As at April 30, 2024, \$46,250 was included in accounts payable and accrued liabilities owing to directors of the Company in relation to director compensation (January 31, 2024 - \$63,750) and reimbursement of expenses \$nil (January 31, 2024 - \$7,759).

As at April 30, 2024, \$32,262 was included in accounts payable and accrued liabilities (January 31, 2024 - \$32,222) due to EcoMine, a majority shareholder of the Company.

As at April 30, 2024, \$14,529 was included in receivables (January 31, 2024 - \$14,299) due from Brokkr Mineral Resources Corporation (formerly 3R Circuits Solutions Corp.), a company controlled by directors of the Company.

As at April 30, 2024, \$51,490 was included in accounts payable and accrued liabilities (January 31, 2024 - \$15,898) due to Anodyne Chemistries Inc., a company controlled by directors of the Company.

8 Off Balance Sheet Arrangements

The Company has no material undisclosed off-balance sheet arrangements that have, or are reasonably likely to have, a current or future effect on our results of operations or financial condition.

9 Critical Accounting Estimates and Judgments

The preparation of financial statements in compliance with IFRS requires the Company's management to make certain estimates and assumptions that they consider reasonable and realistic. Despite regular reviews of these estimates and assumptions, based in particular on past achievements or anticipations, facts and circumstances may lead to changes in these estimates and assumptions which could impact the reported amount of the Company's assets, liabilities, income and expenses. Actual results may differ from those estimates.

Significant judgements

Research versus development expenses – The accounting for research and development expenses differs with research expenses recognized in the statement of loss during the period incurred, whereas development expenses are recognized as an intangible asset in the statement of financial position when incurred. The Company's operations, from time to time, may include both research and development activities. Management has used judgement to determine whether activities should be recognized as research expenses or as an intangible asset for development expenses. To date, management has determined that its activities are research activities and has not incurred any expenses that would qualify as recognition as an intangible asset in the statement of financial position.

Significant estimates

Share-based compensation - The Company generally utilizes the Black-Scholes option pricing model to determine the fair values of the share-based payments and warrants issued in unit offerings. The Company uses significant estimate in the evaluation of the input variables in the Black-Scholes calculation which includes: risk free interest rate, expected stock price volatility, expected life and expected dividend yield.

Fair value of RAPIvD investment - The Company has elected to classify its investment in RAPIvD as FVOCI. In determining the fair value, the Company utilizes unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities. Accordingly, management uses significant estimates in the evaluation of RAPIvD's fair value.

10 Financial Instruments and Financial Risk Management

Fair value

Financial instrument disclosures establish a fair value hierarchy that requires the Company to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The Company primarily applies the market approach for recurring fair value measurements. This section describes three input levels that may be used to measure fair value:

Level 1 – unadjusted quoted prices in active markets for identical assets or liabilities. An active market for the asset or liability is a market in which transactions for the asset or liability occur with sufficient frequency and volume to provide information on an ongoing basis.

Level 2 – quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 – unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

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The carrying values of cash, receivables and accounts payable and accrued liabilities, and short-term loan approximate their fair values due to their short-term maturity. The carrying value of lease liabilities approximate its fair value due to being discounted with a rate of interest that approximates market rates.

Market risk

Market risk is the risk that changes in market prices, such as foreign exchange rates and interest rates, will affect the Company's income or valuation of its financial instruments.

a) Foreign exchange risk

Foreign exchange risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. At April 30, 2024 the Company is exposed to currency risk through accounts payable and short-term loan held in US dollars, Euros and GBP. Based on these foreign currency exposures, a 10% depreciation or appreciation of all the above currencies against the Canadian dollar would result in an approximate increase or decrease of \$104,000 in the Company's net comprehensive loss.

b) Interest rate risk

The Company has cash balances and no interest-bearing debt. The interest rate risk on cash is not considered significant.

Liquidity risk

Liquidity risk is the risk that the Company will encounter difficulty in raising funds to meet cash flow requirements associated with financial instruments. As indicated in Note 1, a material uncertainty exists that may cast significant doubt regarding the Company's ability to continue as a going concern.

The Company continues to manage its liquidity risk by monitoring its cash flows regularly, comparing actual results with budgets and future cash requirements.

The following table summarizes the relative maturities of the financial liabilities of the Company:

| | Maturity less than one year | Maturity greater than one year |
|--|--|---|
| | \$ | \$ |
| Accounts payable and accrued liabilities | 2,400,417 | - |
| Short-term loan | 200,000 | - |
| Lease liabilities | 80,610 | 185,064 |
| Convertible debt | 800,657 | - |
| Total | 3,481,684 | 185,064 |

Credit risk

Credit risk is risk of financial loss to the Company if a counterparty to a financial instrument fails to meet its contractual obligations. The Company's cash is held in large Canadian financial institutions

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and its receivables mostly consist of amounts due from the Canadian government. As such, the Company determined that it is not exposed to significant credit risk.

11 Risks and Uncertainties

The primary risk factors affecting the Company are set forth in our Annual Information Form. A copy of our Annual Information Form is available on SEDAR at www.sedar.com.

12 Outstanding Share Capital

As at the date of this MD&A, the Company had the following common shares, warrants and stock options outstanding:

Common shares

There were 73,507,605 common shares issued and outstanding.

Warrants

| Number of Warrants | Exercise Price | Expiry Date |
|---------------------------|-----------------------|--------------------|
| 3,700,835 | \$0.45 | July 16, 2024* |
| 5,626,735 | \$0.80 | June 30, 2027** |
| 393,871 | \$0.60 | June 30, 2027** |
| 1,536,200 | \$0.80 | July 11, 2027** |
| 51,356 | \$0.60 | July 11, 2027** |
| 11,308,997 | | |

* The share purchase warrants are subject to an acceleration clause that allows the Company to accelerate the expiry date of the share purchase warrants in the event that the volume weighted average trading price of the common shares on the Canadian Securities Exchange exceeds \$1.00 for 10 consecutive trading days.

** The share purchase warrants are subject to an acceleration clause that allows the Company to accelerate the expiry date of the share purchase warrants in the event that the volume weighted average trading price of the common shares on the Canadian Securities Exchange exceeds \$1.20 for 10 consecutive trading days.

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Stock options

| Exercise Price | Number Outstanding | Number Exercisable | Expiry Date |
|-----------------------|---------------------------|---------------------------|--------------------|
| \$ | | | |
| 0.30 | 1,850,000 | 1,850,000 | February 19, 2031 |
| 0.45 | 440,000 | 293,304 | September 10, 2026 |
| 0.45 | 200,000 | 200,000 | September 10, 2026 |
| 0.45 | 200,000 | 200,000 | September 14, 2026 |
| 0.45 | 100,000 | 100,000 | November 17, 2026 |
| 0.45 | 250,000 | 83,333 | March 9, 2027 |
| 0.60 | 2,000,000 | 1,000,000 | September 6, 2032 |
| 0.54 | 50,000 | 37,500 | January 25, 2028 |
| 0.60 | 285,000 | 272,500 | July 4, 2028 |
| 0.46 | 300,000 | - | April 5, 2029 |
| 0.75 | 400,000 | 400,000 | May 26, 2031 |
| 0.45 | 250,000 | 250,000 | May 26, 2031 |
| 0.80 | 115,000 | 115,000 | May 27, 2031 |
| | 6,440,000 | 5,044,167 | |

13 Additional Information

Additional information about the Company, including the Annual Information Form, is available on SEDAR at www.sedar.com.