FORM 51-102F3

MATERIAL CHANGE REPORT

Item 1. Name and Address of Company

BIOHARVEST SCIENCES INC. Suite 1140 – 625 Howe Street Vancouver, BC, V6C 2T6

Item 2. Date of Material Change

December 8, 2021

Item 3. News Release

The news release was issued on December 8, and was released through Newsfile

Item 4. Summary of Material Change

BioHarvest Sciences Inc. (the "Company") has announced that it has produced a meaningful amount (10 kilograms) of full-spectrum Cannabis biomass at a commercial scale without growing the plant itself. (For full illustration, watch the <u>"Cannabis Without Plants – History in the Making" video</u> at <u>https://youtu.be/NAurl6oa1xo</u>)

Item 5. Full Description of Material Change

A full copy of the news release is attached in "Schedule A".

Item 6. Reliance on Subsection 7.1(2) or (3) of National Instrument 51-102

Not applicable.

Item 7. Omitted Information

None.

Item 8. Executive Officer

Dave Ryan VP Investor Relations & Director 604-622-1186

Item 9. Date of Report

December 8, 2021

SCHEDULE A



NR: 1-120821

CSE:BHSC – FSE:8MV – OTC: CNVCF

BioHarvest Sciences Inc. Produces Significant Amount of Cannabis Without Growing the Cannabis Plant

- Cannabis produced has a Trichomes density of up to 200 times greater than in a plant-grown product while solving major industry challenges of consistency, safety, and environmental sustainability
- The Company is ready to engage with key players in the global Cannabis industry

VANCOUVER, CANADA, AND REHOVOT, ISRAEL, December 8, 2021 – BioHarvest Sciences Inc. ("BioHarvest" or the "Company") (CSE: BHSC) has announced that it has produced a meaningful amount (10 kilograms) of full-spectrum Cannabis biomass at a commercial scale without growing the plant itself. (For full illustration, watch the "Cannabis Without Plants – History in the Making" video at https://youtu.be/NAurl6oa1xo)

It is the first time that any group - in either industry or academia - has successfully produced meaningful quantities of full-spectrum Cannabis biomass without growing the plant itself. The Cannabis biomass is not genetically modified and was produced using the Company's proprietary BioFarming technology platform, which grows plant cells in their natural structure in proprietary bioreactors.



Figure 1: BioHarvest Cannabis BioMass Recently Produced

The result of the breakthrough by the Canadian-Israeli biotech firm is Cannabis biomass that is uniquely consistent and clean, resolving two major pain points related to product quality in the medicinal Cannabis industry. Namely – product variability and product contamination.

"The legal Cannabis industry has been waiting for this moment as many of the challenges it has faced are being resolved using BioHarvest's technology and capabilities," said BioHarvest CEO Ilan Sobel. "With this milestone, we are ready to start engaging with key players in the global Cannabis industry for the right partnerships ahead of the introduction of our new Cannabis products."

The biomass consists of Cannabis cells, including Cannabis Trichome cells containing Cannabinoids such as CBD, THC, as well as other compounds that are naturally occurring in the Cannabis plant. BioHarvest's Cannabis Trichome cells are amalgamated in a proprietary high-density coral-shaped structure, which enables a Trichome density (number of trichomes per unit surface) of up to 200 times greater than the conventional agriculture case.

Figure 2: BioHarvest Cannabis Trichome Density (left side) vs Regular Cannabis Plant Trichome Density (Right side)



The result is a win for global sustainability, ushering in a new era by conserving land not just from Cannabis cultivation but that of other plants. BioHarvest is already achieving this with red grapes, olives, and pomegranates. BioHarvest's production facilities use some 95% less physical space than traditional farming; for reference, one seven-foot bioreactor produces what would require 240,000 square meters of land annually for the production of the key polyphenols contained in its red grape VINIA[®] product.

The Cannabis biomass produced by BioHarvest's technology has significant advantages compared to Cannabis produced through conventional cultivation, summed up by what the Company refers to as the 5 Cs:

1. Consistency: Critical for medicinal Cannabis and any pharmaceutical application as well as for largescale application to major brands in the food and beverage industry.

- 2. Cleanliness: The aseptic and highly controlled environment means no fungi, yeast, or mold, or any other contamination source, no pesticides, and no requirement for irradiation of the product.
- 3. Cost: A significant reduction in the production costs, resources, and time required versus indoor and greenhouse Cannabis cultivation.
- 4. Composition: Full spectrum in the original molecular conformation, allowing to optimize bioavailability.
- 5. Climate: Third-party assessments confirm BioHarvest's growing process generates no direct greenhouse gas emissions and no hazardous waste, and only produces 100% biodegradable wastewater while requiring less than 10% of the land resources and significantly less energy when compared to conventional cultivation.

"For its therapeutic qualities, Hemp-based CBD holds a significant potential for the F&B industry to which we have been supplying ingredients for over 40 years," said Vince Pinneri, President of Batory Foods, a leading ingredient distributor for the US food industry. "That is why we decided to team up with BioHarvest in order to guarantee the F&B industry the highest quality CBD with fingerprint consistency and ultimate cleanliness that their BioFarming technology can produce. The outstanding sustainability credentials of the BioFarming technology will also be well received by the growing population of environmentally conscientious customers. We are looking forward to bringing to the US market the best hemp-based CBD, from BioHarvest, in the near future."

BioHarvest has a market capital of about CAD\$ 152M and has raised about CAD\$ 57.3M to date. The Company's next stage will consist of producing Cannabis biomass in industrial-scale bioreactors. Its offering will consist of multiple strains, carefully selected based on specific indications and B2B customer requirements.

"This major scientific and technological achievement is unprecedented in the Cannabis world and is a strong validation of the superiority of the BioFarming technology," said CTO Yochi Hagay. "BioHarvest's global leadership position in plant cell biology is proving itself now on a wide variety of applications."

Reflecting the breadth of possible applications, earlier this month, BioHarvest appointed renowned astronaut Chris Hadfield to its board of advisors as part of a drive to leverage its biotechnology platform to create products that address the challenges of space exploration. Chris Hadfield joined the BioHarvest board several weeks after a visit to the Company's laboratories in Rehovot, Israel, when he spent several hours with the Company's scientists.

Among other examples, BioHarvest's BioFarming technology can produce primary metabolites that amount to food for humans in space. It also can produce antioxidant compounds that can relieve human cellular stress and damage caused by microgravity and ionizing radiation.

About BioHarvest Sciences Inc.

BioHarvest Sciences Inc. (CSE: BHSC) is a fast-growing Biotech firm listed on the Canadian Securities Exchange. BioHarvest has developed a patented bio-cell growth platform technology capable of growing the active and beneficial ingredients in fruit and plants, at industrial scale, without the need to grow the plant itself. This technology is economical, ensures consistency, and avoids the negative environmental impacts associated with traditional agriculture. BioHarvest is currently focused on nutraceuticals and the medicinal cannabis markets. Visit: www.bioharvest.com.

BioHarvest Sciences Inc. Ilan Sobel, Chief Executive Officer

For further information, please contact: Dave Ryan, VP Investor Relations & Director Phone: 1 (604) 622-1186 Email: dave@bioharvest.com



Forward-Looking Statements

Information set forth in this news release might include forward-looking statements that are based on management's current estimates, beliefs, intentions, and expectations, and are subject to a number of risks and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. There is no assurance that we will achieve our objective of making our products available in multiple markets including bio-space and exposing our technology to different verticals. In particular, there is no assurance that the Company will be able to leverage its technology platform to successfully provide essential nutrition and active ingredients for space exploration. There is no assurance that the Company will be successful in expanding its technology to broader medical applications or conduct clinical trials to validate the efficacy of the Company's products for new forms of medical treatments. There is no assurance that the ability to produce a commercial sized biomass will result in the Company entering into commercial production of Cannabis. Clinical trials are subject to risks of significant cost overruns and lengthy delays with no assurance they will confirm desired results. Even where desired results are obtained government approvals for treatments take considerable time and cannot be guaranteed. There is no assurance the BioFarming technology will make a significant impact on multiple verticals of life science based businesses in general or in the bio-space industry. There is no assurance that we will achieve our objective of being a leading supplier of Cannabis. Delays and cost overruns may result in delays achieving our objectives obtaining market acceptance and regulatory approvals for geographic expansion is subject to risk and cannot be guaranteed. Projected sales of Cannabis will require the company to obtain production and / or export licensing which cannot be assurance.

All forward-looking statements are inherently uncertain, and actual results may be affected by a number of material factors beyond our control. Readers should not place undue reliance on forward-looking statements. BHSC does not intend to update forward-looking statement disclosures other than through our regular management discussion and analysis disclosures.

Neither the Canadian Securities Exchange nor its Regulation Services Provider accept responsibility for the adequacy or accuracy of this release.