



ECO-TEA

Golf Course and Sports Playing Field Turf and Grass Management System.

Building on 15 years development in ecological engineering in Canada, the ECO-TEA soil inoculation process can deliver a broad biological (microbes, bacteria and fungi) diversity to the soil to

1. Increase root mass and functionality
2. Deeper penetration of root mass and soil bio-mass creation
3. Suppress soil pathogens and harmful fungi
4. Reduce wear and tear
 - a. Improved recovery time
 - b. Prevents bare patches of grass cover
5. Improve water and nutrient uptake efficiency
6. Increases plant vigour and chlorophyll production
7. Increase stress tolerance (frost, heat, drought, pathogen)

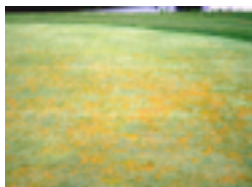
Ecological engineering: "the design of sustainable ecosystems intends to integrate human society with its natural environment for the benefit of both".
 According to Mitsch 1996

The principles of this system have successfully been applied to over 90 golf courses, and Municipal sports fields in Canada.

By introducing a biologically diverse range of microbes, Eco-Tea re-establishes beneficial microbial life that enables managed ecosystems to function with minimal inputs. Significant chemical inputs and current management practices kill off not only soil pathogens, but also beneficial microbes.

Generally speaking, soil pathogens are the first to re-establish after chemical applications. Eco-Tea not only inoculates the soil with beneficial microbes, but provides the food necessary to establish sustainable permanent colonies.

Many microbial products on the market have focused on either single, or small multiples of bacterial and fungal species. The last 15 years of ecological engineering development has demonstrated that effective soil/turf enhancement requires a biologically diverse range of microbes (1000's of species with genetic diversity). And, like any organisms, they need the right food to grow and persevere.



Clear Lake Golf Course Riding

ECO-TEA™ is an organic engineered compost tea

Top left and clockwise: Anthracnose & Basal Rot (*Colletotrichum graminicola*); Brown or Summer Patch (*Rhizoctonia solani*); Fairy Ring (*Lycoperdon, Psalliota, Clitocybe Species And Others*); Red Thread (*Laetisaria fuciformis*) are examples of some of the conditions that affect Canadian turf which ECO-TEA has been used to solve.

created from the highest quality ingredients. It is a living liquid teeming with trillions of microorganisms in every LITRE that breathe oxygen, and are beneficial to plants and soil. ECO-TEA™ contains an abundance of bacteria, fungi, protozoa, as well as many soluble nutrients including: Nitrogen, Calcium, Magnesium, Iron, Zinc, and Copper all of which help to create an optimal environment for plant growth.

ECO-TEA™ Product Details:

ECO-TEA is an actively aerated engineered compost tea with an organic blend of:

1. Humic/fulvic and long-chain amino acids,
2. Atlantic kelp extract,
3. Various compost blends and worm-castings,
4. Simple and complex carbohydrates and,
5. Amino acids and enzymes

It injects soluble macro and micronutrients in chelated (plant-available, non-leachable) form into plant root zones.

ECO-TEA™ contains various sources of active and stable organic matter (earthworm castings and plant-based composts), which contain a vast array of plant growth promoting rhizomicrobes and other functionally important microbes.

ECO-TEA is brewed in special bio-reactors so that:

1. The humic acid chelates macronutrients
2. The fulvic acid chelates micronutrients effectively tying them up in the soil in plant available forms.
3. Atlantic kelp provides a food source for important fungi, while improving the functions of most plant hormones.
4. ECO-TEA can be engineered to contain plant beneficial bacteria or fungi or a combination thereof specifically targeted to the situation.
5. Consistency of quality and microbial counts always remain the same.

The plant beneficial biology within ECO-TEA™ will help to decrease populations of pathogenic bacteria, fungi and some insects through antibiosis, competition for resources and production of pathogen specific antibiotics. This means plants will focus less on producing energy expensive shock proteins, resulting in significantly increased growth rates and wear tolerance.

GENERAL (Has application in agriculture as well)

Eco-Tea™ Soil Inoculation

- A Canadian developed technology
- Composting and soil inoculation technology developed from state of the art ecological engineering utilising plant and soil interactions to maximise active populations of good bacteria and fungi.
- Practical 'tool' to improve soils by engineering compost mixtures to create premium growing conditions for all plants, vegetables and fruits.



To ensure customized solution of both selected bacteria and fungi, a bio-reactor is used on-site for easy preparation of colonies and required feed input to maintain healthy microbial eco-system. Preparation on-site delivers both quantity and quality of active micro-bacteria.

- Controls soil pathogens and disease by inoculating the soil with bacteria and fungi colonies, and providing the food for these beneficial organisms to multiply and activate the soil.
- Develops beneficial micro-bacterial environment around the roots.
- Most plants have a desired balance of different bacteria – the bio-reactor process can customise required soil blends with bacteria colonies specifically to benefit the particular crop and soil conditions. Key input component is vermiculture castings.
- Creates suitable micro-bacterial environment to allow greater water holding (water reduction up to 40%) and nutrient absorption (25% reduction in requirement) for plants in poor soil areas
- Customized recipe of a range of bacteria tailored to specific soil tasks, including **soil renovation, plant recovery and out-populating pathogens and nematodes for healthy soil.**
- Suitable in open-field and greenhouse agriculture
- Enhances growth of grass, vegetables, fruit trees, and trees



Custom Soil Blending for
Your Exact Needs

APPENDIX 1.

DIFFERENCE BETWEEN ECO-TEA AND FERTILISERS.

ECO-TEA is a general fertilizer beneficial to all plants. When considering alternatives to ECO-TEA, please consider the following:

- ECO-TEA works differently than synthetic fertilizers. The effects of ECO-TEA increase and improve with time instead of being depleted and used up as the growing season progresses. This is a result of the organisms within ECO-TEA reproducing in the soil surrounding turf and grass once it has been applied.
- Chemical fertilizers and pesticides destroy soil biodiversity by creating salt compounds. Salts are toxic to most organisms and contribute to problems such as nutrient leaching and acidification of soil. ECO-TEA restores the soil biodiversity helping to reduce nutrient leaching by creating stable soil structure. The microorganisms that are introduced into the soil by the application of ECO-TEA also help break down both chemical and plant produced toxic compounds.
- ECO-TEA is an aerobic tea meaning that the bacteria within ECO-TEA breathe oxygen. Caution: There are many anaerobic teas (lacking oxygen) on the market. Anaerobic tea is the result of poor aeration. When a tea becomes anaerobic it becomes toxic to plants. NEVER apply anaerobic teas to plants. Many pathogenic organisms proliferate under low oxygen conditions and thus if applied to soil these pathogens are introduced and they begin to attack plants, killing them.

APPENDIX 2.

Common Issues for Turf Grass Managers and How Eco-Tea Helps:

- 1) **Root Development** – Many golf course superintendents have issues with root development on greens in the heat of the summer (especially *Poa*-based greens), this in-turn leads to other issues with turf health including water stress, nutrient deficiencies and increased pathogen problems.
 - a. Eco-Tea is a biological product specifically designed to inoculate roots zones with plant-growth-promoting-rhizomicrobes. A healthy community of plant beneficial microbes in the rhizosphere (root zone) can help mitigate many of these stress-related issues by directly stimulating the growth and development of fine roots and root hairs.
 - b. Eco-Tea helps with root development which in-turn creates higher field capacity and nutrient holding and cycling ability of turf.
 - c. Eco-Tea works best where soils are very sandy because there is little organic matter and much of the microbial life is pathogenic. Eco-Tea re-introduces the beneficial microbes to the system and with continued use – keeps them there.
- 2) **Wear tolerance** – Stress on greens from play (compaction and wear from traffic) can cause unwanted problems with the turf. Eco-Tea contains stress-alleviating compounds that help to decrease wear and tear on the turf, by helping it to recover faster. For example, some of the microbes in Eco-Tea produce Indole-3-Acetic acid which is a root stimulating hormone. When released it promotes the growth of roots and helps to speed up the recovery from wear.
- 3) **Water Usage** – on some greens, holding water is a challenge. Eco-Tea's root stimulating ability has helped golf course superintendent in Canada reduce water usage, specifically as it relates to hand water, because deeper, finer roots are able to find soil water better, reducing field capacity and thus reducing overall water requirements.
- 4) **Pathogen suppression** – Eco-Tea is not a fungicide (or fertilizer) but helps plants in both areas. Fungicide programs are non-selective and in many cases kill beneficial microbes as well as pathogens. Eco-Tea, when integrated properly into a turf management program, will help to re-introduce the beneficial microbes at high population sizes, helping to out-compete and suppress pathogens (over time). Many golf courses using Eco-Tea have been able to greatly reduce their seasonal fungicide applications because of low risk.
- 5) **Sustainability and Public Perception** – Outside of turf health, Eco-Tea is a completely ecologically sustainable, environmentally friendly liquid biological amendment. Made from plant-based compost, worm castings and various grain meals, humic substances, amino acids, sugars and minerals, it encompasses the idea of renewable, sustainable crop production principals.

How Can ECO-TEA Reduce Nutrient and Pesticide Usage?

A healthy soil system is robust and contains a vast array of microbial life. Artificial growing media and heavily “used” agricultural fields lose a lot of the beneficial life that enable the system to function with minimal inputs. ECO-TEA re-introduces these microbes in an active form so they can establish

Regular ECO-TEA applications are effective in

1. decreasing the frequency and severity of soil pathogen, disease, weed and fungal outbreaks reducing herbicide and fungicide costs
2. increasing nutrient availability within the soil improving the effectiveness and use reduction of regular fertilizer.

APPENDIX 3: TESTIMONIALS AND REFERENCES.

Some Top Canadian Golf Courses Using Eco-Tea:

- 1) The National Club of Canada, Toronto, Ontario (Ranked #1 golf course in Canada)
- 2) St. Georges Golf and Country Club, Toronto, Ontario (Ranked #2 golf course in Canada and #30 in the world)
- 3) Uplands Golf and Country Club, Victoria, British Columbia
- 4) Victoria Golf and Country Club, Victoria, British Columbia
- 5) Capilano Golf and Country Club, North Vancouver, British Columbia (Ranked #5 course in Canada)
- 6) Donalda Golf and Country Club, Toronto, Ontario
- 7) Niakwa Golf and Country Club, Winnipeg, Manitoba
- 8) City of Burnaby, British Columbia (3 Courses)
- 9) Whistler Golf Course. Whistler, British Columbia
- 10) Okanogan Golf and Country Club, Kelowna, British Columbia
- 11) Quilchena Golf and Country Club, Richmond, British Columbia
- 12) Clear Lake Golf Course, Riding Mountain National Park, Manitoba
- 13) City of Vancouver (4 Courses), Vancouver British Columbia
- 14) St. Boniface Golf Course, Winnipeg, Manitoba
- 15) OslerBrook Golf and Country Club, Collingwood, Ontario
- 16) Muskoka Bay Golf and Country Club, Muskoka, Ontario
- 17) Red Devil Golf Course, Calgary, Alberta
- 18) Victoria Golf Club, City of Edmonton, Edmonton, Alberta
- 19) Uplands Golf and Country Club, Victoria, British Columbia
- 20) Bear Mountain Golf Course, Victoria, British Columbia
- 21) Whitevale Golf and Country Club, Toronto, Ontario
- 22) Bears Paw Golf and Country Club, Calgary, Alberta
- 23) Falcon Lake Golf Course, Falcon Lake, Manitoba
- 24) Oakdale Golf and Country Club, Toronto, Ontario
- 25) Morgan Creek Golf Course, Vancouver, British Columbia
- 26) Fox Hollow Golf Course, Calgary, Alberta
- 27) Pridis Greens Golf Course, Pridis, Alberta

Eco-Tea Case Studies and References:

Uplands Golf and Country Club, Victoria, British Columbia:

Superintendent – Brian Youell (Master Superintendent, Canadian Superintendent of the Year 2013)

- Uplands golf course is a private facility located in Victoria, Canada. The course averages 70,000 rounds annually and operates year round. The greens consist of a poa/bentgrass blend (70:30) and are constructed to USGA specs. Historically root development has been poor resulting in higher maintenance costs from various factors:
 - o Poor wear tolerance – after busy days and tournaments the turf is stressed and takes time to rebound.
 - o Higher watering costs – Poorly developed root systems increase the water requirements for turf. Summertime water restrictions impair the greenskeepers ability to keep the course in top playing conditions.
 - o Tournament play increases the wear and tear on the golf course (specifically greens), such that play can be affected for days post tournament play.
 - o Poor root development hinders the greens ability to withstand stress and drastically affects recovery rates.
- Eco-Tea was incorporated into the management program at Uplands in 2014. Visually there has been little difference in the color of the greens. However, root development has improved drastically after one season of applications.
 - o Roots have gone from 1” to 1.5” at best to 2” and 2.5” consistently across the course.
 - o Fine roots, white roots are more prominent (tertiary and quaternary roots)
 - o Wear tolerance and recovery from tournament play is one of the noticeable results of the Eco-Tea program.
 - o Water and the need to hand water greens have also diminished as a result of stronger healthier root systems.
 - o Overall health of the greens has increased since incorporating Eco-Tea

Testimonial from Brian – “Hi Dale

As you know, Eco Tea does not necessarily produce any real visual improvements, but under the turf canopy its a different story. Poa annua does not produce the deep roots at the best of times, but what my staff noticed was, when they change holes the plug would break off at approximately 3/4” - 1” below the surface by late summer due to root loss, this did not happen this summer. I have been taking regular profiles inspecting the roots, we have consistently seen our poa roots at the 2” depth through out the summer, this is usually when Poa is loosing root mass.

I have not doubt Eco Tea has had an impact on plant health for us, and even though we are just completing our 3rd driest summer on record, we came through the year very successfully. I will be running my applications until the end of October, depending on temperatures, but I look forward to use Eco Tea next year. I will take some pictures, but all in all, I think you have a great product.

I hope all is going well for you, and please feel free to share any info or documentation on Eco Tea. I’m always a student who likes to learn. Have a great day.”

- Brian is looking to use Eco-Tea on Tees and Fairways moving forward.

Clear Lake Golf Course, Riding Mountain National Park, Manitoba:

Superintendent - Greg Holden (Master Superintendent, Superintendent of the Year winner, former president Canadian Golf Course Superintendents Association)

- Clear Lake Golf Course is a highly regarded public facility in Riding Mountain National Park. The course averages 25,000-30,000 rounds annually and operates 5 months of the year. Greens are 100% *Poa* and are all pushup construction. Being located in a National Park, it has a focus on sustainable, ecologically friendly management practices. Cold prairie winters, late cool springs and short hot summers can create a host of problems on the dominant poa greens. Root development and disease have historically plagued the course.
 - Poor root development and low wear tolerance were major issues (1990's-2008).
 - Disease was frequent and lead to increased use of fungicides. Regulations to minimize fungicide use in National Parks (2006).
 - Drought and localized dry spot were prominent summer issues.
- Eco-Tea program began in 2008
 - The first golf course in Canada to use Eco-Tea (2008).
 - Went from having ½" to 2"+ roots in one season.
 - From high incidence of disease to very low incidence of disease (specifically *fusarium*).
 - Hand water costs from localized dry spot greatly reduced.
 - Overall health and wear tolerance of greens consistent under various unfavorable weather conditions.
- "We have been using Eco-Tea for 7 years now and our greens are consistent, healthy and have never been better. Before Eco-Tea we were losing turf on our greens, now they are the highlight of our course" – *Greg Holden*

Riverway Golf Course, Vancouver, British Columbia:

Superintendent – Peter Sorokowski M.Sc. – Manages 4 golf complexes for the City of Burnaby, a suburb of Vancouver. Peter was the first Eco-Tea adopter in British Columbia.

- Riverway golf course is a public facility located in Burnaby, British Columbia, Canada. The course was built on top of a decommissioned landfill. The course averages 70,000 rounds annually and operates year round. The greens consist of a poa/bentgrass blend (70:30) and are pushup construction. Historically root development has been poor resulting in higher maintenance costs from various factors:
 - Poor wear tolerance – after busy days and tournaments the turf is stressed and takes time to rebound.
 - Higher watering costs – Poorly developed root systems increase the water requirements for turf. Summertime water restrictions impair the greenskeepers ability to keep the course in top playing conditions.
 - Disease is a major issue all times of year. Major pathogens include *Microdochium*, *fusarium* and *Anthraxnose* – *amongst others*.
 - Poor root development hinders the greens ability to withstand stress and drastically affects recovery rates.
- Eco-Tea was incorporated into the management program at Riverway in 2011 (full course from 2012). The course was split in to half and 50% of the greens were treated. Visually there was little difference in the color and appearance of the greens. However, root development has improved drastically after one season of applications.

- Roots have gone from 1” to 1.5” at best to 2” and 2.5” or more consistently across the course.
 - White roots significantly increased, specifically tertiary and quaternary roots. Especially noticed during the trial.
 - Disease incidence has decreased and plants recover more quickly from pathogen stress.
 - Wear tolerance and recovery from play is one of the noticeable results of the Eco-Tea program.
 - Overall water use and the need to hand water greens have reduced as a result of stronger healthier root systems.
- “Last year we had an outbreak of anthracnose that affected many courses in the lower mainland. To my amazement Riverway was not affected, when it is normally the first. There is no question Eco-Tea has something to do with the health and robust nature our greens have exhibited since we began using Eco-Tea in 2012” *Peter Sarokowski*

Okanogan Golf and Country Club, Kelowna, British Columbia:

Superintendent – Adrien Van Dyke, Manager of the year 2013 Golf BC.

- Okanogan Golf and Country Club is a private facility located in Kelowna, Canada. The facility is 36 holes and consist of two courses a) The Quail and b) the Bear course. The courses average 50,000 rounds annually and operate March - October. The greens consist of a USGA spec 100% bentgrass (Quail) and 100% *Poa annua* (Bear) Push up construction. Historically root development has been poor resulting in higher maintenance costs from various factors:
 - Poor wear tolerance – after busy days and tournaments the turf is stressed and takes time to rebound.
 - Higher watering costs – Poorly developed root systems increase the water requirements for turf. Summertime water restrictions impair the greenskeepers ability to keep the course in top playing conditions.
 - Disease is a major issue all times of year. Major pathogens include *Microdochium*, *fusarium* and *Take all patch – amongst others*.
 - Poor root development hinders the greens ability to withstand stress and drastically affects recovery rates.
- Eco-Tea was incorporated into the management program on the Quail course in 2013 (full facility 2014). The greens have seen drastic improvements in health and root development with significant results from the Eco-Tea program.
 - Roots have gone from 2” to 2.5” at best to between 5” and 9” or more consistently across the course.
 - Fine roots, white roots significantly increased (tertiary and quaternary roots). Especially noticed during the trial.
 - Disease incidence has decreased and plant recovers more quickly from pathogen stress.
 - Wear tolerance and recovery from play is one of the noticeable results of the Eco-Tea program.
 - Overall water use and the need to hand water greens have reduced as a result of stronger healthier root systems.

Testimonial From Adrian Van Dyke (in conversation):

"Hi Adrien,

If you wanted to help us out with some answers below that would be great.

- 1 - How long have you been on the ECO TEA program?*
- 2 - What were your challenges before you began?*
- 3 – What has been your experience and what results have you seen so far?*

This will help us to communicate our global results to others who may be considering getting on the program...

*Thanks again,
Dale"*

ANSWER -

"Hey Dale,

Easy questions...

- 1. Began Eco Tea program on The Quail Course (predominantly 007 bentgrass) in April of 2013. Beginning Eco Tea program on The Bear Course (predominantly Poa annua) in April 2014*
- 2. The main challenges with both the bentgrass and Poa greens are maintaining a vigorous root systems under the harsh conditions of a putting green (low mowing heights, traffic, etc.), combined with extreme environmental factors (heat, cold, moisture, low light, etc.).*
- 3. Results have been consistent throughout all of the greens that have been part of the program. The main result is an extensive root system with many fine roots present. Even under high Okanagan temperatures of July, and August we saw continual root development and expansion where normally you would see root reduction as part of the process of photorespiration. The extensive root system basically helped with every part of greens health, making overall healthier looking greens with drastic reductions in inputs. Reductions in pesticides, fertilizer, water, and labour for hand watering were all noticed.*

Cheers,

Adrien"

Poplar Ridge Golf Course, Onanole, Manitoba:

Superintendent – Ryan Myers

- Poplar Ridge Golf Course is a newer facility near Riding Mountain National Park. The course was constructed in 2009. Greens are 100% Bentgrass and are all USGA construction.
 - o Poor root development and low wear tolerance were major issues during grow in.
 - o Take All patch was considered high risk because of new bentgrass greens.
 - o Drought and localized dry spot were prominent summer issues.
- Eco-Tea program began in 2010
 - o Root growth immediately improved.
 - o Went from having 2½” to 6”+ roots in one season.
 - o Overall health and wear tolerance of greens consistent under various unfavorable weather conditions.

Testimonial from Ryan Myers

“Eco-Tea has been part of our fertility and disease management program here at Poplar from the beginning. We are confident that the product is highly effective and economical to use. We have been very lucky that our course has faired so well first 6 seasons so well. Eco-Tea is a great product” – Ryan Myers

Oslerbrook Golf and Country Club, Collingwood, Ontario:

Superintendent – Jason Honeyball, Audubon certified, environmental stewardship award 2014

- Oslerbrook golf course is a private facility located in Collingwood, Ontario near the shores of Georgian Bay. The course was built in 2004, averages 25,000 rounds annually and operates 6 months of the year. The greens consist of 100% bentgrass and to USGA specs. Take All patch, dollar spot and vigorous root development have historically been issues at Oslerbrook:
 - o Poor wear tolerance – after busy days and tournaments the turf is stressed and takes time to rebound.
 - o Higher watering costs – Poorly developed root systems increase the water requirements for turf.
 - o Disease is a factor during the season. Major pathogens include *Sclerotinia*, *Rhizoctinia*, *Gaeumannomyces* and *Anthraco*se – *amongst others*.
- Eco-Tea was incorporated into the management program at Oslerbrook in 2013. Noticeable differences in root development after one season of applications.
 - o Roots have gone from 5 to 6.5” to 7” and 9” or more consistently across the course.
 - o Fine, white roots significantly increased (tertiary and quaternary roots) after only a few Eco-Tea applications.
 - o Disease incidence has decreased.
 - o Wear tolerance and recovery from play is one of the noticeable results of the Eco-Tea program.
 - o Overall water use and the need to hand water greens have reduced as a result of stronger healthier root systems.

“Eco-Tea is a great addition to our greens program. It is truly sustainable and effective, a combination not seen often. Our root health has increased and our greens are in top shape. Dale really knows his stuff and it shows in the performance of Eco-Tea” Jason Honeyball

Eco-Tea Use on Sports Fields:

Similar to Golf Courses, Eco-Tea can help increase the health and stress tolerance of sports fields. The main issues with sports fields include:

- Wear and tear from traffic and,
- Compaction

There are other issues as well, but these are the primary causes of damage to sports field turf. Eco-Tea has been effective in increasing the wear tolerance of sports turf. This is accomplished by inoculating the roots with growth promoting microbes – specifically root growth promoting species. Healthier roots will enable swifter recovery of shoot tissues after damage from play. Further, healthy roots will mitigate compaction as well by creating air space and stable soil aggregates. This directly and indirectly affects various management requirements positively.

- increased nutrient retention times in the soil,
- increased water use efficiency,
- Increased pathogen suppression,
- Increased rates of recovery from wear

City of Richmond, British Columbia, 2014 – Eco-Tea used on all municipal sports fields.

Noticeable differences in wear tolerance of turf. Root development improved.

City of Oakville, Ontario, 2014 – Eco-Tea used on premiere sports fields. Root growth and overall plant health increased. Wear tolerance improved.

City of Calgary, Alberta, 2013 – Eco-Tea used at Glenmore athletic park. Wear tolerance improvement and overall healthier turf.

Other notable properties using variations of engineered compost tea:

- Brooklyn Bridge Park, New York, USA
- Rockefeller Center, New York, USA
- Harvard University, Campus and Sports Fields, Cambridge, Mass, USA
- Hudson Park Boulevard, New York, USA
- University of Colorado, Boulder, Colorado, USA

APPENDIX 4: THE COMPANIES

WST Solutions Pty Ltd.(WST)

WST is a specialist in delivering food security and good environmental outcomes managing the interactions of plant, soil and water with novel technology. The company aim is to identify global technologies that make a difference, are cost-effective, and replace the general toxic load of broad spectrum chemicals with targeted, innovative environmentally friendly interventions.

WST is the exclusive distributor for OEE technology for Australia.

Background to Overton Environmental Enterprises Inc.:

Dale Overton, Founder of OEE, is a Canadian Entrepreneur with an extensive background in soil ecology, microbial engineering and crop production. He obtained a B.Sc. Ecology (2004) and Masters in Land Reclamation (2011) from the University of Manitoba.

Dale has built a solid reputation in the turf management and agricultural sectors in Canada. Eco-Tea is an accumulation of 15 years of research and promoted through his company OEE. A list of golf courses OEE has worked with is appended.

OEE also works closely with clients in turf management and agriculture, and with companies like JR Simplot and McCain global foods who aim to transform the way they manage organic waste streams, using advanced microbial composting techniques.

Currently OEE Inc. is partnered with leading scientist Dr. Ehsan Kafipour, University of Manitoba, bioinformatics and metagenomics.

OEE is also working with the Industrial Research and Application Program (a Canadian federally funded agency) to build new microbial extraction technology.

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