



Montreal Alouettes EnvironmentALS Plan Update

2010

Tackling Climate Change



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Introduction

Leadership. Dignity. Respect. Credibility. Quality. Partnership. These values taken from the mission statement of the Montreal Alouettes have been the guiding principles of the Club and have shaped interactions with key stakeholders and influenced club operations since its return to Montreal in 1996. The fans expect no less.

As a 'customer-driven' organization, the Alouettes have always been attuned to issues that are important to their fans. Therefore, it comes as no surprise that as climate change has become the defining environmental issue for this generation, the Club has formalized its commitment to environmental sustainability.

The Alouettes have always made efforts to operate in a sustainable way; the Club had actively taken steps to reduce waste, increase recycling and energy efficiency, and has constantly looked at ways of reducing its environmental footprint.

In 2008, the Alouettes launched their EnvironmentALS program, which formalized their plan of action and community engagement, focusing on sustainability. This initiative has led to the Alouettes becoming the first 'carbon neutral' football team in the CFL (see appendix 1) – as well as the first professional sports franchise in Canada. It has also led to the development of a new pillar in the Alouettes mission statement, to: "Implement an environmental plan that will help insure the future of our natural environment and take a leadership role in the community by encouraging others to do the same."

This plan has a three-pronged approach:

- Becoming carbon neutral;
- Initiating a comprehensive sustainability program;
- Adopting LEED criteria as guiding principles when planning the Club's ongoing construction projects.

Following a successful program launch and a learning curve that spanned the 2008 and 2009 seasons, the Alouettes are always looking for ways to continually improve their program.

Environmental Initiatives

As an environmentally-responsible corporate citizen and leader in the community, the Club is committed to continuously improving its environmental practices and to developing solutions to our environmental challenges.

In order to meaningfully tackle the critical issue of climate change, the Club kicked off its EnvironmentALS Plan in 2008 with the goal of lessening the environmental and ecological impact of Club operations and to help protect the environment and its resources.



“Going Carbon-Neutral”

One important way to address global warming is through a carbon-neutral initiative. “Going carbon-neutral” has become the catchphrase to signal that an organization has taken action to reduce greenhouse gas emissions so as to contribute to the fight against climate change. It is defined as calculating total climate-damaging greenhouse gas emissions from an event, organization or business, reducing them where possible, and balancing the remaining emissions by purchasing high-quality carbon offsets.

In order to become carbon-neutral, the Alouettes undergo an annual third-party audit of their carbon emissions with Planetair, following a rigorous process which also identifies areas in which the Club can reduce its greenhouse gas emissions.

The Alouettes purchase their carbon offsets from Planetair, whose Gold Standard offset projects adhere to the most widely-accepted quality seal for voluntary offsets currently available. By going carbon-neutral, the Alouettes achieve the equivalent of taking close to 100 cars off the road for one year or over 450 tonnes of CO₂. This comprises the carbon emissions generated by all club operations, including administration and stadium operations, day-to-day team transport, and away-game travel.

Offsets that meet the ‘Gold Standard’ and operate under the guidelines of the Kyoto Protocol are generated from emissions-reducing projects typically found in developing countries. The most common project type is ‘renewable energy’, such as wind farms, biomass energy, or hydroelectric dams which create carbon offsets by displacing fossil fuels. Other common project types include energy-efficiency projects, the destruction of industrial pollutants or agricultural byproducts, methane capture from landfills or livestock, and forestry/land-based projects. To learn more about going carbon-neutral and carbon offsets, visit www.planetair.ca.

Sustainability Program

While the Club will always emit carbon and will always need to purchase offsets if it is to be carbon-neutral, it will continually look for ways to minimize its Carbon Footprint¹, as well as its overall Environmental Footprint².

The Alouettes’ Sustainability Program includes the following policies and procedures, which involve various areas of the Club’s operations:

Administration

- Printing items on environmentally-friendly paper (FSC certified) such as:
 - Tickets for game and events (with vegetable-based ink);
 - Game accreditations;
 - Events brochures;
 - Cheerleader calendars (with vegetable-based ink);
 - Pocket calendars (PEFC certified).

¹ The amount of carbon emissions generated by the operation of the Club which in turn affects climate change.

² A sustainability indicator that determines how much of the Earth’s resources are used due to the operations of the Club.



- Using environmentally-friendly paper for office use (FSC certified);
- Employing electronic invoicing to clients when possible;
- Improving the office recycling system (paper, glass, plastic, and printer ink cartridges);
- Reducing energy consumption by installing programmable thermostats (Energy Star) and light sensors in common areas at the office;
- Replacing incandescent bulbs with compact fluorescent light bulbs (CFLs) to help reduce energy consumption;
- Recycling old computers and office equipment that are refurbished and distributed them to schools and not-for-profit organizations at a low cost;
- Recycling old light bulbs and paint leftovers.

Stadium Operations and Facilities

The Alouettes are working to make the stadium and its operations more energy efficient and environmentally friendly.

1. Waste Reduction

Following each game, Entretien Chateau, the stadium maintenance crew, sorts through approximately 85 per cent of the waste generated by games to maximize recycling. Through this process, the Club diverts approximately 1,488 kg of recyclable waste from landfill per game. By the end of a given season, approximately 1.48 tonnes of materials are diverted.

To further encourage recycling by fans, the Club has increased the number of recycling bins throughout the stadium from 40 in 2008 to 75 in 2010. In order to further engage fans, the Club strategically places key sustainability messages on the recycling bins, on the stadium video screen, and in other areas.

The Club will continuously work to reduce waste created by stadium operations & improve waste recuperation programs in order to increase its diversion rate – the diversion rate means the percentage of waste materials diverted from landfills to be recycled, composted or re-used.

2009 Objectives

In 2009, the Club more than doubled its objective in regards to its diversion rate.

- 5,347 kg of plastic, cardboard, paper and glass recycled in-stadium;
- 21,800 kg of waste sent to landfill from the stadium;
- **20 per cent diversion rate.**

2009 results

In 2009, more than 14,800 kg of material was recycled at the stadium. By doing so, the Club achieved a diversion rate of over 40 per cent.

- 14,880 kg of plastic, cardboard, paper and glass recycled in-stadium;

- 22,210 kg of waste sent to landfill from the stadium;
- **40.1 per cent diversion rate.**

2010 Objectives

- 19,250 kg of plastic, cardboard, paper and glass recycled in stadium;
- 25,500 kg of waste sent to landfill from the stadium;
- **43 per cent diversion rate.**

2. *Energy Efficiency*

Stadium lighting has been adjusted so that lights are fully operational for only six hours per day on game days and run at 15 per cent or less for the remainder of the night (night games only). This adjustment has led to a decrease of 345.6 kWh per game day.

Other initiatives will endeavour to:

- Explore renewable energy opportunities;
- Use electric/hybrid vehicles whenever possible;
- Promote energy conservation initiatives to reduce electricity consumption at McGill Stadium during event periods;
- Reduce lighting capacity whenever possible;
- Replace incandescent bulbs with compact fluorescent light bulbs (CFLs) to help reduce energy consumption;
- Replace scoreboards and 20-second clocks with LED (light-emitting diode) technology.

3. *Toxics*

The Club's maintenance partner uses low-VOC (volatile organic compounds) and non-toxic, environmentally-friendly (and Ecologo certified) cleaning products, and the stadium is outfitted with recycled hand and toilet paper. Please see Appendix II for product specifications.

Transportation

The Club has already made significant efforts to promote public transit to its fans. The Club's shuttle service transports more than 70,000 fans per year to and from the metro system and the stadium.

Through the EnvironmentALS plan, the Club will also:

- Encourage and improve access to alternative transportation to games.
 - Thirty four per cent of the Club's fans drive to games (average 2.5 passengers per car). The Club will work to lessen this number by working to convert drivers into commuters.
- Improve bicycle facilities.





Food and Beverage Concessions Operator

Compass Group is one of the Club's main operating partners. As the largest food service operator in Canada, it manages food and beverage service at McGill Stadium. The Compass Group is committed to a leadership role with regard to sustainability and, to that end, is working closely with the Club to play its part in implementing the EnvironmentALS plan.

Compass Group has worked with the Club to:

- Reduce the amount of product packaging;
- Buy local products in order to reduce transportation (burning fuel & causing emissions);
- Replace plastic, foam and paper plates and bowls in luxury boxes with china dishes;
- Replace plastic wine and beer cups with glass cups in the luxury boxes;
- Replace napkins by eco-responsible products;
- Transform cooking oil into biodiesel;
- Provide condiments pumps instead of individual packets;
- Replace plastic coffee stirrer by wooden ones;
- Use fish that are from sustainable sources;
- Use sternos made of ethanol from sugar cane (See Annex for more details).

Beer supplier and stadium co-sponsor Molson is also putting its support behind the plan, having already introduced recyclable beer cups (class #1 recyclable plastic) in the stadium.

Boissons Gazeuses Environnement (BGE) through the Consortium Écologique supplies the recycling bins for the stadium.

LEED Criteria for Construction

In order to further reduce its footprint, the Club has used LEED (Leadership in Energy and Environmental Design) criteria as its moral compass when planning Phase II of the McGill Stadium expansion project, and will do so on any future renovations and upgrades to the facility and its equipment. The internationally-recognized LEED Green Building rating system provides a suite of standards for environmentally-sustainable construction.

Through Phase II of the McGill Stadium expansion project, some environmentally-friendly elements that became reality are:

- Use of Arriscraft International stone products that are environmentally-responsible (see Appendix IV);
- Ultra-low-flush toilets and urinals (See appendix V);
- Green roof on the ticket office;
- Planting of 270 trees (3-for-1) and 500 shrubs to improve the biodiversity of the sector;
- Reducing noise pollution in the residential areas near the stadium;
- Reducing lighting pollution outside the stadium;
- Luxury boxes have windows that can open completely to provide natural ventilation instead of an air conditioning system.



Communications and Community Outreach

By taking a leadership role in the community, the Club hopes that its partners, suppliers and fans will undertake their own environmental initiatives, in both their professional and personal lives.

The Club has an incredible opportunity to motivate and educate fans about environmental sustainability and to mobilize them to become agents of change.

Through the EnvironmentALS plan, the Alouettes will reach out to their existing fans, as well as appeal to a young audience that is concerned about the impact of global warming on their future. By educating the public about global warming solutions, the Alouettes hope to motivate individuals to lead more sustainable lives – and even go carbon-neutral themselves.

With a captive audience of loyal fans at each home game, the Club has an incredible opportunity to coach fans and to influence their behaviour.

Opportunities for 'in stadium' communication includes:

On the video board:

- Commercials & animations during games (STM shuttle bus service, encourage fans to recycle in-stadium, etc.);
- Quizzes and tips (David Suzuki Challenge);
- Mascot involvement.

In-stadium:

- Signage on the premises;
- Signage on recycling containers.

The Alouettes can also inform and educate fans and the public through:

- The Club website: MontrealAlouettes.com;
- A targeted media campaign;
- A section in the *Playbook for Success* newspaper distributed in schools throughout Quebec is dedicated to environmental issues (see appendix IV);
- The incorporation of the EnvironmentALS plan logo and or key messages in other Alouettes materials.

Community Relations Initiatives

The Club has expanded the scope of its CN Adopt an Alouette program, which reaches an average of 60,000 Quebec youth annually, to incorporate an environmental awareness and sustainability module. With the integration of key messaging as part of the program, young people will learn about how they can become agents of change and reduce their own impact on the environment – collectively and individually.



The Alouettes are collaborating with the David Suzuki Foundation, one of Canada's most respected environmental non-governmental organizations, to develop materials for the CN Adopt an Alouette program and joint community outreach efforts.

Since 1990, the David Suzuki Foundation has worked to find ways for society to live in balance with the natural world that sustains it. The Foundation uses science and education to promote solutions that conserve nature and help achieve sustainability within a generation.

2010 Activities

The Club intends to increase its participation in events and activities in the community whose objectives are to raise awareness of environmental issues, such as:

- 1) Alouette players will participate in the "Roulez Mieux" campaign, an initiative by the David Suzuki Foundation and Planetair to promote better driving habits in order to reduce the amount of gas emissions; launched on Mar.30, 2010;
- 2) The Alouettes will issue a press release on Apr. 22, Earth Day, to disclose their updated EnvironmentAls program and highlight their new initiatives and objectives for 2010;
- 3) The Club will participate in the "Conférence Entreprise et développement durable", organized by Unisféra on Apr. 26 and 27 at which the Club's EnvironmentAls program will be presented to Quebec's institutional and corporate leaders;
- 4) The Alouettes' cheerleaders will participate in the Earth Run on June 5, Environment Day, to raise funds for local and national environmental organizations;
- 5) Alouette players and mascot will participate in the event "En ville, sans ma voiture" that will be held the week of Sept. 20 to promote alternative means of transportation other than the automobile.
- 6) In-stadium
 - The Club will implement an in-stadium promotion that will happen during a game time-out. Team mascot Touché will go through the stands to collect recyclables from fans with the purpose of showcasing the Club's in-stadium initiatives to our fans;
 - Team mascot Touché will have his own EnvironmentAls jersey;
 - The Club also intends on having an "Environment" game theme at McGill Stadium this season to showcase the efforts made by the Club and present ways to help the environment to spectators.



Conclusion

With deep roots in the Montreal community, close connections with fans and a high profile, the Alouettes offer an unmatched opportunity to demonstrate solutions to global warming.

By going 'carbon-neutral' and formalizing their commitment to becoming a more sustainable organization through the EnvironmentALS plan, the Alouettes are taking action and providing leadership on key issues. By encouraging their fans and partners to do the same, the Club is becoming a positive role model for the public and other organizations.

As the first major professional sports franchise in Canada to go carbon-neutral, the Alouettes have set the standard for other professional sports franchises in the country.

Year after year, the Alouettes continually seek to expand the scope of their environmental plan to identify further areas of improvement and introduce new, innovative initiatives.

Appendices

Appendix I Carbon credits



Appendix II Cleaning products

Annex to Alouettes contract

Season 2010

Charteau Maintenance agrees to use the following products: North River and Envirologic paper products and Vert-2-Go chemical products.

The Green Approach

Wood Wyant is a leader in providing environmentally sound solutions. Environment protection, today and for future generations, is a major concern for all Wood Wyant employees.

It is a direction taken by the company more than 25 years ago when it started marketing its *Envirologic paper products*.

Green Products

Paper without trees: Envirologic paper products

Wood Wyant is one of the first companies to promote «Paper without trees». We offer a complete line of paper products manufactured entirely with recycled fibre and processed chlorine-free. The manufacturing process uses 80% less water than the industry average, and 70% of the water used is reintroduced into the manufacturing process. Also, Wood Wyant uses innovative manufacturing processes using less energy and producing less green house gas emissions.

These products are Terra Choice EcoLogo certified.

Vert-2-Go: Environmentally-friendly products

The Vert-2-Go product line has been formulated to meet the requirements of housekeeping professionals and specialists while offering safety and environmental benefits. Our formulas are eco-friendly, low in VOC, without fragrance and biodegradable; they do not contain any NPE, APE or NTA. Also, additional effort has been put forth to reduce packaging waste.

These products are cost effective and meet all requirements of existing regulations.

Green Seak® or TerraChoice Ecologo[®] certified, they offer the performance you deserve and the safety and environmental benefits you are demanding.

Green Seal and Terra Choice EcoLogo requirements





- Toxicity
- Eutrophication
- Skin and eye Irritation
- Skin sensitization
- Combustibility
- Indoor and outdoor air quality
- Toxicity to aquatic life
- Aquatic biodegradability
- Packaging
- Concentrates
- Fragrances
- Prohibited ingredients
- Training
- Animal testing
- Labelling
- Carcinogens and reproductive

Vert-2-Go Bio: a step greener

The Vert-2-Go Bio line is a new generation of green cleaning products. It complements the Vert-2-Go line, which also meets the very stringent requirements of Green Seal and Terra Choice EcoLogo certifications.

The Vert-2-Go *Bio* products are EcoLogo certified and formulated using the most recent enzyme and microbial technology, and are environmentally friendly.

Green systems

There is no doubt cleaning is the first line of defence in protecting the health of people and the building in which we live and work.

Wood Wyant offers several tools that are available to green your building, namely:

- A environmental impact audit of the building to be cleaned to help benchmark current situation and develop specific objectives;
- Recommendations for chemicals, paper, equipment, cleaning processes and technologies;
- Implementation plan detailing what needs to be accomplished, how this will be completed and what is the necessary time frame to get this accomplished;
- Communication program that includes customized newsletter, static sticker and planned communication meetings to review objectives, goals and results;
- A complete training program consisting of classroom and hands-on, on-site sessions.

The Wood Wyant team offers you its expertise and the partner you need to reach your green objectives.



[Click here to view the North River product line.](#)

Paper manufacturing is incredibly resource-intensive, consuming vast amounts of water, fiber and energy. Responsible tissue product manufacturing is even more critical due to the disposable nature of the products being produced.

Cascades' North River is a leading environmental commercial tissue brand that adheres to sustainable manufacturing practices through one of the most comprehensive, stringent and innovative programs in the industry. Our latest environmental initiative maintains our status as industry leaders in addressing climate change. We're working to ensure North River meets the strictest environmental standards across the board.

Water

Cascades is the only certified Processed Chlorine Free tissue manufacturer in North America: we use no chlorine or chlorine-containing compounds in our manufacturing. Furthermore, we use in average 80% less water than the North-American paper industry average: 10 m³/ton at Cascades vs. the industry average of 49.7 m³/ton. (Source: National Council for Air and Stream Improvement)

Fiber

All North River products are 100% recycled with 60–100% post-consumer content. This helps Cascades preserve more than 37 million trees annually and contributes to the 2.2 million short tons of recycled fiber that Cascades processes each year. Cascades has extensive experience as a recycling company dating back to 1964. Today, we are the first recycler in Canada, using recovered fiber to supply our own mills.

Certified Green

With "green" products proliferating in the market, concerns of false environmental claims are also growing. Customers need a mechanism to ensure that these products properly support these claims.

North River 100% recycled towel and tissue products are *Certified Green*[™], carrying more third-party environmental certifications than any other brand. To obtain these certifications, our products and processes are fully audited against the certification's environmental criteria. Third-party verification allows users to make informed environmental purchasing decisions. Our products carry multiple environmental certifications: assurance that you are purchasing environmentally responsible products. North River's certifications include Green Seal[®], EcoLogo[®], and Processed Chlorine Free[®]. With the addition of wind energy to North River, the renewable energy we purchase is also certified Green-e[®].



Click our logo to view the North River product line.



Green-e®

Green-e is the nation's leading independent certification for renewable energy products and purchases. The Green-e logo used on Cascades' North River towel and tissue products is a nationally recognized symbol which helps our customers identify products that promote certified renewable energy. This commitment to using clean, emission-free renewable energy helps combat climate change through the reduction of carbon emissions. Green-e verifies Cascades' purchase of Renewable Energy Certificates (RECs) and certifies the RECs to ensure they meet strict environmental and consumer protection standards. All the electricity used to manufacture North River's towel and tissue products is offset with 100% Green-e certified wind energy.



Green Seal®

Green Seal is an independent non-profit organization dedicated to safeguarding the environment and transforming the marketplace by promoting the manufacture, purchase, and use of environmentally responsible products and services. Green Seal provides science-based environmental certification standards that are credible, transparent, and essential in an increasingly educated and competitive marketplace. Their industry knowledge and standards help manufacturers, purchasers, and end users alike make responsible choices that positively impact business behavior and improve quality of life.



Processed Chlorine Free

The Chlorine Free Products Association's Processed Chlorine Free seal is reserved for recycled content paper. PCF papers have not been manufactured with chlorine-containing compounds. A minimum of 30% post-consumer content is required. The PCF emblem is the only certification mark in the world that clearly identifies that no chlorine or chlorine compounds were used in the papermaking process; all virgin components need to be certified as totally chlorine free and require a chain of custody for all fiber, and the mill does not use old growth forest for any of the virgin pulp.



Other products used:

Chemspec DFC Calcium Lime and Rust Remover which meets the following standards:



* We also use plastic garbage bags and gas and oil for blowers.

**Appendix III
Compass Environmental
Measures**



**EnvironmentAls – 2010 initiatives
Percival Molson Stadium – 2010 season**



Resources and tools Financial impacts	Objectives and initiatives	Details and Actions	Environmental impacts
In effect (white in the place of Mocha)	Cascades napkins and distributors <i>Concessions Loges</i> REDUCE	Replace napkins by ecological Cascade products – White, one ply made entirely of recycled fibres. - Place messages of awareness on the distributors.	Reduce the environmental impact.
In effect More pumps in 2010	Ketchup and Mustard pumps <i>Concessions</i> REDUCE	Replace the individual ketchup and mustard packs with pumps. Heinz products in location. (Always have individual packages ready in the event a client asks for it)	Reduction of waste.
In effect	Wood coffee stir sticks <i>Concessions and Loges</i> REDUCE	Offer wood stir sticks rather than plastic ones	Biodegradable alternative
In effect	Paper Coffee Cups <i>Concessions and Loges</i> REDUCE	Replace Styrofoam coffee cups with paper coffee cup	Biodegradable alternative
In effect	Eco-responsible fishing	Replacement of Atlantic cod by sustainable Pollock from Alaska Replacement of farmed salmon by sustainable Pacific wild salmon	
In effect	<i>Loge Plates</i>	Use of washable dishes in the loges and marquises	



Loisirs et Divertissements



EnvironmentAls – 2010 initiatives
Percival Molson Stadium – 2010 season



In effect	Eco-Flames sterno	Sugar cane ethanol, renewable source Recyclable wrapping No landfill and is not a dangerous waste No toxic emissions such as carbon monoxide or dioxin and diminished carbon dioxide emissions	
In effect	Beer Cups REDUCE	Use of Plastic cups (plastic #1) for the sale of beer.	Reduction of waste
In effect	<i>Loge Lunch Boxes</i>	Boite à lunch Impressions en carton. 100% fibres recyclées.	Reduction of waste
In effect	Regular maintenance of equipment	Regular maintenance of refrigeration equipment. Regular maintenance of faucets	Reduce the energy cost Reduce the use of water
In effect	Fridges REDUCE	All the fridges from the sponsor (COKE) are new Energy Star efficient ones	Reduce the energy cost (electricity)
In effect	Follow the 3 R (Reduce, Re-use, Recycle) REDUCE	Waste recyclables generated by the operations of Compass at the points of production and services are deposited in areas designated by the Alouettes: cardboard boxes, glass and plastic.	Reduction of waste Put into the effect the recycling procedures
In effect	Transformation of cooking oil into biodiesel	Cooking oil collected and transformed into biodiesel	
In effect	Inform consumers	Messages on videoboard	
In effect	Inform	Develop a program of adequate signage. Inform and educate consumers	Signage on the distributors Poster promoting awareness to reduce the consumption of individual packages where the use of pumps is not in place



Loisirs et Divertissements

Appendix IV
Arriscraft LEED principles

ENVIRONMENTALS



Building
Green
with Arriscraft International

ENVIRONMENTALS



Arriscraft products support the fundamental principles of green management with additional durability, design and economic benefits.

Energy Conservation

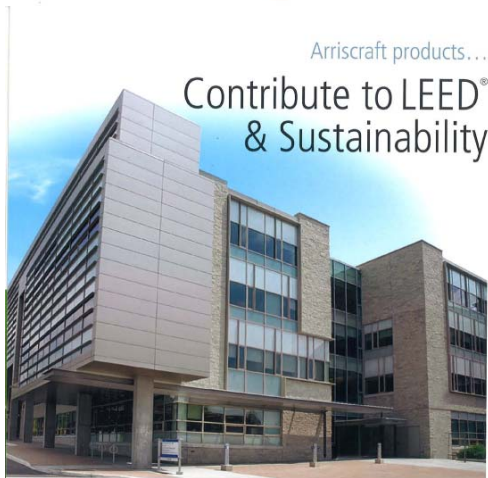
Resource Re-use & Protection

Recycled Content

Construction Waste Management

Durable Buildings

Local/Regional Materials



Arriscraft products... Contribute to LEED® & Sustainability

What is LEED?

According to the U.S. Green Building Council, the Leadership in Energy & Environmental Design rating system, or LEED "promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality."

Thoughtful material selection can contribute to the development of high performance green buildings that minimize impact on building users and on the local and global environment.

Through superb durability and energy efficiency, exceptional life span, and timeless architectural appeal, Arriscraft products can contribute to LEED points and to sustainability.

Energy and Atmosphere

Credit 1:
Improved Energy Performance (1 to 10 points)

Thermal mass of solid stone masonry helps to reduce heat transfer. This results in increased thermal comfort by reducing indoor temperature swings and results in energy savings. The thermal mass of stone walls or floors can be used in passive solar designs to help capture this renewable energy source.

Materials and Resources

Credit 1 & Credit 2:
Building Reuse and Construction Waste Management (up to 2 points)

The long life of an adaptable, stone masonry exterior allows for future remodeling or reconfiguration of the building to suit changing needs. The durability associated with Arriscraft products ensures that the masonry shell of a building will be viable for reuse for generations to come.

Arriscraft stone is available in various modular sizes with through-body colour. Modular construction can be easily adapted to site sizing requirements with minimal waste.

Credit 3.1 & 3.2:
Salvaged Materials (1 to 2 points)

The durable and lasting nature of Arriscraft masonry products lends itself ideally to re-use applications. All final waste products can be crushed to aggregate for alternate uses.

Credit 4:
Recycled Content (1 Point)

Pre-consumer and post-consumer. Raw materials that compose Arriscraft stone can include up to 25% by mass of post-industrial recycled material. This recycled content includes fine silica and mineral oxide pigments.

Credit 5.1 & 5.2:
Regional Materials (2 Points)

Arriscraft has three manufacturing facilities located within prime distance to many urban centers. Consequently, many building sites fall within the 500 mile (800 km) radius LEED requirement. In addition, our products are manufactured using raw materials that are abundant and nearby.

Materials and Resources

LEED Canada Credit 8:
Durable Building (1 Point) or
Credit 1: Innovation in Design (1 to 4 Points)

The architectural appeal of Arriscraft stone masonry is timeless, allowing for future remodeling and building extensions. Backed by an industry-unique lifetime warranty, our products have been proven to stand the test of time. Arriscraft's Technical Information System and Masonry Envelope Review services support the integrity of your design by recommending sound design and best construction practices.

Innovation in Design

Credit 1:
Innovation in Design (1 to 4 points)

The use of Arriscraft stone products in creative and resourceful design can provide the opportunity to earn credits in the Innovation in Design category.

For example, whereas the intent of Credit 4.2 under Indoor Environmental Quality is to utilize paints, adhesives and coatings with low VOCs, the goal of this credit can also be realized with the use of interior stone finishes, with no VOC emissions, and not requiring additional sealers.

Arriscraft Thin-Clad Renaissance® units can also have potential contribution to Innovation in Design credits. For example, the use of thin bed masonry product in lieu of a traditional full bed means that the transportation is effectively reduced and thus the intent of the "distance from job site" credit has been achieved. These transport savings will be passed on to structural components as well, as a thinner, lighter wall system requires less "structure" to support it.

- Lightweight - transportation costs are significantly reduced
- Reduced Structural Requirements - steel leneles are eliminated, steel shelf angles are eliminated, and 5" to 7" of tank ledge on footing is no longer required
- Reduced overall wall thickness contributes to more useable floor space or a smaller building footprint and more green space!

Appropriate use of product and documentation to support the design may earn up to 4 points in this category.

Arriscraft Renaissance®, and Building Stone products support the fundamental principles of green management with additional durability, design, and economic benefits.



At Arriscraft...

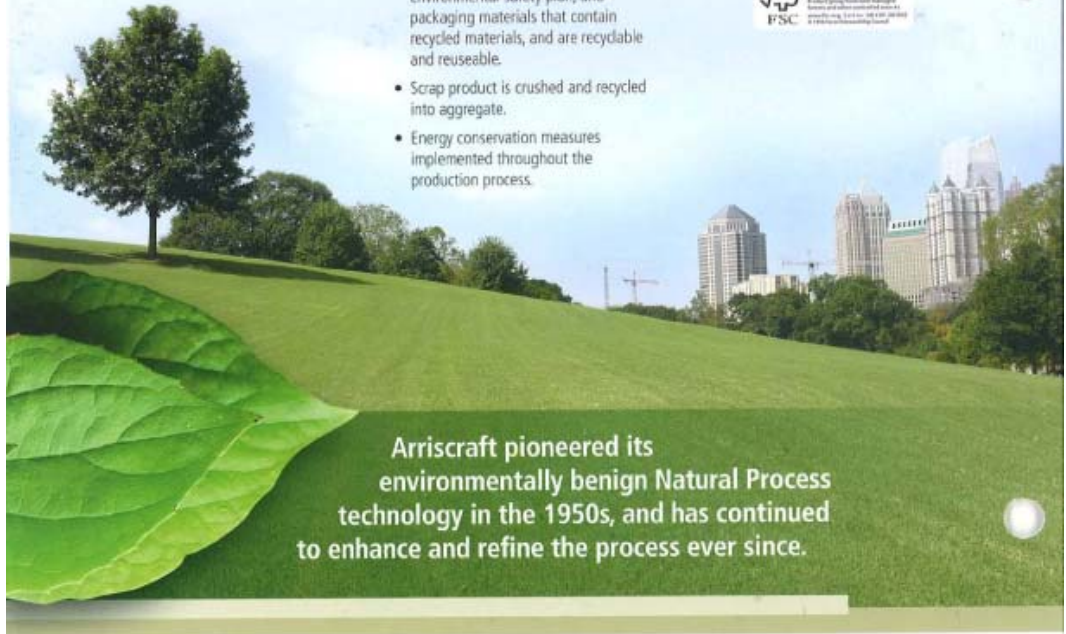
We take sustainability and environmental stewardship seriously.

Across North America, environmental practices and performance are more important than ever before. Not only do we manufacture products that contribute to sustainability, we start thinking green before our product is even made. Thoughtful planning and manufacturing techniques allow us to maintain our commitment to the environment, and to responsible manufacturing. Our position on environmentally sensitive practices is governed by our company's corporate objectives, which state that "social and environmental concerns are of the utmost importance and must not be compromised in the setting and execution of policies."

How?

Arriscraft practices environmentally responsible manufacturing, which encompasses:

- Use of abundant all natural ingredients in our products.
- Use of post-industrial recycled materials, including post-industrial recycled silica and mineral oxide pigments. Where possible, select products include up to 25% recycled materials by mass.
- Recycling and re-use of water during our production process to promote conservation of one of earth's most valuable resources.
- Non-toxic manufacturing process. As a result there are no toxic emissions to pollute our water or air.
- Facility-wide recycling program, environmental safety plan, and packaging materials that contain recycled materials, and are recyclable and reusable.
- Scrap product is crushed and recycled into aggregate.
- Energy conservation measures implemented throughout the production process.



Arriscraft pioneered its environmentally benign Natural Process technology in the 1950s, and has continued to enhance and refine the process ever since.

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INTERNATIONAL
BUILDING STONE • BRICK • LIMESTONE
General Shale Brick
Building The American Dream



Appendix V Ultra-low flush urinals

EcoVantage™ Z5798 Ultra Low Consumption Urinal



The Pint™

Zurn continues to demonstrate leadership in plumbing system innovation. The Z5798 ultra low consumption (1/8 gpf) urinal system is the latest product to follow in that pioneering spirit. It leads the way with ultra low water consumption, latest in sensor technology, and high quality vitreous china.



Patent Pending

Model Description

Z5798	The Pint™ Top Spud, 0.125 gpf Ultra Low Consumption Stall Urinal
Z5799	The Pint™ Back Spud, 0.125 gpf Ultra Low Consumption Stall Urinal
Z5738	The Small Pint™ Top Spud, 0.125 gpf Ultra Low Consumption Small Footprint Urinal
Z5758	The Retro Pint™ Top Spud, 0.125 gpf Ultra Low Consumption Enlarged Retrofit Footprint Stall Urinal
Z5759	The Retro Pint™ Back Spud, 0.125 gpf Ultra Low Consumption Enlarged Retrofit Footprint Stall Urinal

"The Pint™" The ultra low consumption series urinals consume one pint of water providing 85% savings with each flush.



Typical 1.0 gpf Urinal

Features and Benefits

1/8 Gallon of Water Per Flush Every Time

Internal flow regulator guarantees consistent water savings with each flush

Sanitary Washdown and Trap Water Exchange

Optimized distribution plate and water trap pass all ASME A112.19.2-2003 urinal performance tests

High Efficiency Alternative to Waterless Urinal

- Lower building maintenance costs
- No replacement traps to buy or maintain
- Satisfies end user who prefers washdown action, providing more sanitary feel
- Saves over 30,000 gallons of water per year over standard urinal

Sensor Flush with Smart Technology

Sanitary hands-free operation with the latest in sensor technology

Battery Operated

Optimized electronics for 200,000 cycle battery life

All Metal Chrome Plated Housing

Heavy-duty commercial grade construction to resist vandalism

Chloramine Resistant Internal Seals

Long lasting, dependable performance in harsh water conditions

Easy to Retrofit

- In many cases, urinal can be retrofitted to existing carrier and outlet rough-ins
- Large wall footprint to cover existing installations
- Flush valve mounts to standard urinal stop valves

Z5798 Comparative Cost of Operation

	Male Occupants in Facility	Frequency of Use (Daily)	Gallons Per Cycle (Day)	Total Gallons Per Year	Water/Sewage Yearly Cost
Z5798	50	2	12.5	3,250	\$ 22.75
1.0 gpf	50	2	100	26,000	182.00
1.5 gpf	50	2	150	39,000	273.00
3.0 gpf	50	2	300	78,000	546.00

The Z5798 total yearly cost of operation is \$22.75. The ROI calculation based upon water/sewage alone is quite simple. In addition to the water/sewage savings, many municipalities offer rebates between \$200-\$300 for installing high efficiency urinals. Please feel free to contact our Customer Service Department to discuss your municipality and application.



Appendix VI Playbook for Success

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Scott Flory

Guard

6-foot-4 and 296 lbs

Education: University of Saskatchewan

Born: July 15, 1976

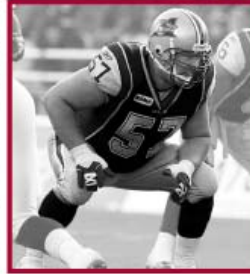


KIDS HAVE AN IMPORTANT ROLE AS YOUNG ENVIRONMENTALISTS



I am more aware of doing what's right for the environment because of my two young kids. They have been taught at school not to waste things and to recycle as much as possible. So they automatically put newspapers and plastic containers into our recycling bin at home.

My wife and I try to make smart environmental choices because we're concerned about the kind of world that we're leaving for our children. So, for example, we don't buy water in plastic bottles or let water run for no reason. We also keep the heat lower. People who visit our home usually need



to wear a sweater.

Whenever we can, we go to a local farm to buy our fruits and vegetables. It's very important to me that our kids realize where their food comes from... that it doesn't just magically appear in supermarkets.

In August and September, we love to eat Quebec corn. During the fall, we always go apple picking. We also have a small garden with herbs and tomatoes so that we can watch how some of our food grows. I think it's very important to try to eat fresh local food – for the environment and to stay healthy.

ENVIRONMENTALS

Take the David Suzuki challenge



Karel Mayrand

Director General of Quebec's
David Suzuki Foundation

Saving the environment should be a top priority for young people. It's your future at stake. Challenge yourself to make a positive difference.

Switch things off. Lights, computers, televisions, video games and other devices that are left on while not in use account for up to 10% of our electrical consumption.

Explore outdoors. Go outside to play. Use books and websites to identify trees and plants. Become aware of different wildlife species and their importance.

Be an energy detective. All those little drafts through windows and doors at home could equal a hole as big as a basketball. Encourage your parents to seal off drafts. Remind them of the heating costs they could save.

Eat smart. Every time you eat fresh local products rather than packaged and frozen meals you help reduce pollution, because it takes less energy to produce and transport fresh local food.

Have a vegetarian day. Ask your parents if your family can skip having meat at least one day a week. Producing meat takes huge quantities of water to grow the grain to feed animals.

Get moving! Walk, cycle, skateboard or take a bus or metro whenever you can instead of going by car.

Travel smart. Of course, you can't always walk everywhere. Some places are too far or it's too late to travel alone. But make trips as efficient as possible. Draw a map showing all the places you go regularly. Can you plan your day so you don't have to make extra trips?

Get involved. Find out whether your community holds special activities for the environment. Encourage your family to volunteer with you. Or think of a project your class or school can do. Use your imagination!

Become a responsible consumer. Don't buy things on impulse. Even if you really want something, wait a day to see if you still can't live without it.

Learn and teach others. Read everything you can about saving the environment. Talk about what you learn with family and friends. Choose the environment as your topic for assignments.

Be an Earth ambassador. Make your concerns known. Write letters. Circulate petitions. Draw posters. Paint images. Create collages. Shoot videos. You need to convince others – especially adults – that everyone has a responsibility to save this planet for future generations.

Find out more at www.davidsuzuki.org

LET'S HUDDLE



Discuss with your classmates what you could do to make your school a greener environment. Come up with at least one project that can be done before the end of the school year.