

TSM Performance by Company

Avalon Advanced Materials



Avalon Advanced Materials (formerly Avalon Rare Metals) is a Canadian mineral development company with a primary focus on niche market metals and minerals with growing demand in new technologies. The company has three advanced-stage projects across Canada, all 100% owned, which are focused on lithium, tin, indium, zirconium and the rare earth elements. Avalon is currently focusing on its Separation Rapids Lithium Project near Kenora, Ontario, and its East Kemptonville Tin-Indium Project in Yarmouth, Nova Scotia.

Avalon believes a strong sustainability framework is fundamental to its long-term success. The company has implemented the TSM Guiding Principles in order to meet or exceed industry best practices, and to continuously improve on its social, environmental, and health and safety performance. As Avalon is a development stage company, its annual TSM self-assessment is voluntary.

Avalon has demonstrated leadership among junior companies in the mineral development sector by producing an annual sustainability report compliant with the Global Reporting Initiative's (GRI) guidelines. Avalon reports on its activities to hold itself accountable, drive company performance and demonstrate the benefits of sustainable practices to its stakeholders.

In December 2015, Avalon published its fourth annual sustainability report and its second in accordance with GRI G4 guidelines. For two consecutive years (2015 and 2016), Avalon has placed among Corporate Knights' Future 40 Responsible Corporate Leaders in Canada.

HIGHLIGHTS OF AVALON'S VOLUNTARY 2015 TSM SELF-ASSESSMENT

During the 2015 reporting period (September 1, 2014, to August 31, 2015), Avalon continued to advance its projects openly and transparently, with a commitment to the economic and social well-being of its projects' local communities.

At the East Kemptonville project in Yarmouth County, Avalon met with local political representatives, Chamber of Commerce representatives and members of the Tusket River Environmental Protection Association, a local NGO concerned with the Tusket River watershed in which the East Kemptonville site is located.

“Avalon has also developed a risk management program to identify and manage risks and opportunities.”

Avalon also initiated discussions with the Acadia First Nation. These discussions were focused largely on business opportunities, leading to a contract with a local First Nation-owned business to manufacture the 2,000 core boxes needed for the 2015 drilling program.

Avalon has also developed a risk management program to identify and manage risks and opportunities. The program was expanded in 2015 to address risks associated with the increasingly important East Kemptville and Separation Rapids projects to ensure both are managed effectively.

SAFETY AND HEALTH ASSESSMENT

Avalon's Sustainability Policy, which broadens and clarifies the company's sustainability objectives to encompass health and safety, environment, and communities and people, was endorsed by company management during the reporting period. Avalon's Board of Directors and employees were then introduced to and trained on the policy.

The company updated health and safety training for all employees at the East Kemptville project site, and all employees participated in a site-specific health and safety risk assessment. Regrettably, there was one medical-aid accident during the year. The accident investigation resulted in retraining of personnel at the East Kemptville site in key areas of concern.

ENERGY USE AND GHG EMISSIONS MANAGEMENT

Avalon implemented energy use monitoring at the East Kemptville project site; however, attempts to identify energy intensity performance targets were unsuccessful due to the lack of control on material effects (e.g., ground conditions during drilling).

Avalon also completed an air quality management plan at the Nechalacho project and initiated environmental studies at the East Kemptville project.

ABORIGINAL AND COMMUNITY OUTREACH

Avalon identified the communities of interest surrounding the East Kemptville project and established a core box construction contract with the local Acadia First Nation.

CRISIS MANAGEMENT PLANNING

Avalon updated all emergency response plans, and completed a risk assessment and emergency response training at the East Kemptville project site.

BIODIVERSITY CONSERVATION MANAGEMENT

Avalon prepared Wildlife, Wildlife Habitat Protection and Wildlife Effects monitoring plans for its Nechalacho project, and initiated baseline and Species at Risk Act studies at the East Kemptville project. The company also participated in Caribou Management Area planning in the Northwest Territories.

📄 For more information, please visit: www.avalonadvancedmaterials.com





2015 TSM Results

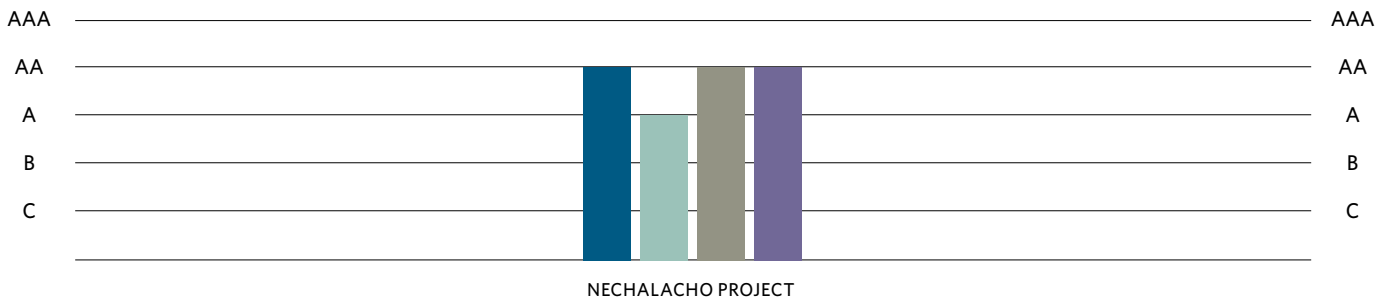
Avalon Advanced Materials

Crisis Management Planning Assessment

FACILITY	PREPAREDNESS	REVIEW	TRAINING
NECHALACHO PROJECT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

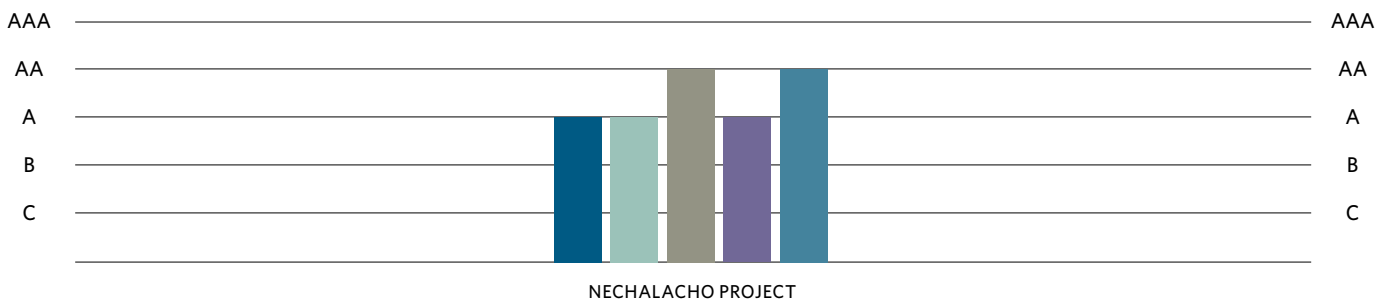
Aboriginal and Community Outreach Assessment

- COMMUNITY OF INTEREST (COI) IDENTIFICATION
- COI RESPONSE MECHANISM
- EFFECTIVE COI ENGAGEMENT AND DIALOGUE
- REPORTING



Safety and Health Assessment

- POLICY, COMMITMENT AND ACCOUNTABILITY
- TRAINING, BEHAVIOUR AND CULTURE
- PLANNING, IMPLEMENTATION AND OPERATION
- MONITORING AND REPORTING
- PERFORMANCE

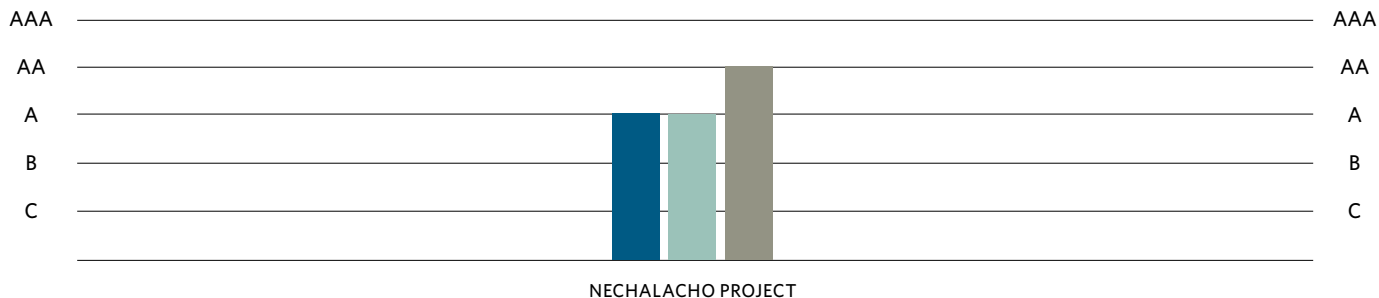


Voluntary self-assessment.



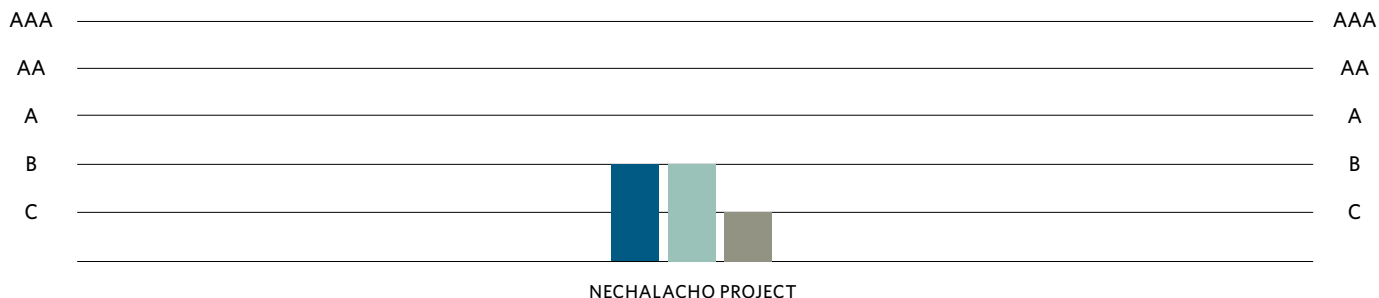
Biodiversity Conservation Management Assessment

- CORPORATE BIODIVERSITY CONSERVATION POLICY, ACCOUNTABILITY AND COMMUNICATIONS
- FACILITY-LEVEL BIODIVERSITY CONSERVATION PLANNING AND IMPLEMENTATION
- BIODIVERSITY CONSERVATION REPORTING



Energy Use and GHG Emissions Management Assessment

- ENERGY USE AND GHG EMISSIONS MANAGEMENT SYSTEMS
- ENERGY USE AND GHG EMISSIONS REPORTING SYSTEMS
- ENERGY AND GHG EMISSIONS PERFORMANCE TARGETS



Voluntary self-assessment.

