Health and Safety

Teck

Teck Quebrada Blanca

> Pictured above: Employee at the Quebrada Blanca Phase 2 project, Chile.

Health and Safety

More than 2.78 million deaths occur every year as a result of occupational disease or workplace accidents, and the economic cost of poor health and safety management practices is estimated at 3.94% of global gross domestic product.²⁶ The COVID-19 pandemic has further emphasized the importance of a resilient occupational safety and health system to protect workers and to manage large-scale health crises.²⁷

The continuing response to COVID-19 is in addition to the ongoing work of the mining sector to reduce the health and safety hazards and risks associated with handling large volumes of materials, the use of heavy equipment and production processes. Teck and other member companies of the International Council on Mining and Metals (ICMM) have set the collective goal of zero fatalities and are implementing measures to reduce injuries.

Safety has long been a core value and strategic priority for Teck. In 2021, the COVID-19 pandemic remained the most critical short-term health and safety issue facing our company. We maintained and further enhanced our preventive measures across all offices and operations to safeguard the health of our employees and contractors, while continuing to operate safely and responsibly maintain employment and economic activity to the extent possible. We have supported and encouraged vaccination efforts by creating awareness, facilitating access, providing incentives and, in some cases, setting mandatory vaccine policies for our employees. We continue to closely monitor and follow guidance from public health authorities, external experts and government.

We were deeply saddened by the fatality that took place in January 2021 at our Red Dog Operations. We have carried out an in-depth investigation into the incident to learn as much as possible and to implement measures to prevent reoccurrences. In 2021, we also started to report on all fatalities confirmed to be related to occupational diseases. Common industry practice is to report on fatalities related to occupational diseases among current employees. However, due to the potential long-term nature of occupational diseases, Teck reports on all identified incidences of fatalities, including former employees. This is a highly transparent practice that Teck considers to be best practice for our industry.

In 2021, the High-Potential Incident Frequency at Teck was 38% lower year over year and our Lost-Time Disabling Injury Frequency was 11% lower. The Total Recordable Injury Frequency also decreased year over year by 10%. While these improvements are very encouraging, we remain vigilant as we work to reach our ultimate goal of everyone going home safe and healthy every day.

GRI Indicators and Topic Boundary

403-103, 403-8, 403-9, 403-10

This topic is considered one of the most material by our employees, contractors and regulators in the context of all Teck sites and in contractor selection and management.

How Does Teck Manage This Topic?

Information about how we manage health and safety, including relevant policies, procedures, management practices and systems, is available for download on our website.

²⁶ Safety and health at work. ILO. 2021. ²⁷ We need a strong, resilient occupational safety and health environment. ILO. 2021.



Our Performance in Health and Safety in 2021

Our Targets and Commitments Health and safety is a core value and strategic priority at Teck; nothing is more important than the health and safety of our people. We engage and develop our people, and work to ensure everyone goes home safe and healthy every day.

Teck has in place a set of standards, policy guidelines, operating procedures and systems that describe accountabilities, controls and other minimum requirements for managing health and safety risks. These apply to all Teck sites and projects (excluding projects or operations in which Teck has an ownership interest but is not the principal operator), including 100% of employees and contractors.

The following table summarizes our performance against our sustainability strategy and goals for health and safety.

Sustainability Strategy Goals	Status	Summary of Progress in 2021				
Strategic Priority: Eliminate fatalities, serious injuries and occupational disease						
Goal: Contribute to the elimination of fatalities and serious injuries through significantly enhanced critical control verification for fatal hazards.	On track	Updated critical control standards and critical control verification (CCV) criteria and processes. 12 new/revised standards have been released to date, and over 30,000 CCVs were conducted in 2021. Advanced our Vehicle Safety Strategy to eliminate serious injuries and fatalities from vehicle-related incidents.				
Goal: By 2025, contribute to the elimination of occupational disease by implementing new technologies in real-time exposure monitoring to improve exposure controls for dust and welding fumes.	On track	Continued to use real-time particulate monitoring (RTPM) technology at multiple sites to identify causal factors for dust exposures. Used this information to prioritize exposure reduction planning for groups with the highest exposure. Developed new critical control standards (with CCV criteria) for respirable particulates.				

Performance Metrics

Indicator ^{(1),(2)} Work-related fatal injuries	Indicator⁽¹⁾⁽²⁾ Lost-Time & Disabling Injury Frequency	Indicator ^{(1),(2)} Total Recordable Injury Frequency	Indicator⁽¹⁾⁽²⁾ High-Potential Incident Frequency
Target Zero fatalities	Target 10% year-over-year reduction	Target 10% year-over-year reduction	Target Year-over-year improvement
2021: 1	2021: 11% reduction	2021: 10% reduction	2021: 38% reduction
2020: 0	2020: 23% reduction	2020: 17% reduction	2020: 32% reduction
2019: 1	2019: 18% reduction	2019: 24% reduction	2019: 16% reduction

All indicators include employees and contractors.
Performance Metrics are related to performance of Teck-managed operations and do not include joint ventures.

Building a Positive Culture of Health and Safety

Launched in 2009, Courageous Safety Leadership (CSL) focuses on challenging values, beliefs and attitudes towards safety, and builds commitment from individuals to work safely. In 2021, we implemented sustaining activities to realize our commitments from the fourth phase of our CSL program. We also continued the Introduction to CSL program using a mix of virtual and in-person sessions across the company for new employees and contractors. In 2021, over 1,600 new employees plus many contractors participated in the Introduction to CSL training. We have established health and safety cultural improvement plans at all operational sites using feedback from the results of the Health and Safety Culture Survey conducted in 2019. The next survey is planned to be conducted in 2022. Implementation of these plans is a business performance metric, and progress is monitored and reported monthly to ensure that operations are addressing opportunities identified in the survey.

High-Potential Risk Control

As of the end of the year, all operations met or exceeded their 2021 High-Potential Risk Control targets for conducting high-potential risk assessments and effectiveness reviews. These targets were to conduct at least four Work Team Risk Assessments and six Effectiveness Reviews per operation. As a result of these improved risk assessment efforts across the company, we identified opportunities and improved controls for key serious injury and fatality risks. We also used this process to identify and share stories of positive change.

In 2021, we continued our company-wide training module, Introduction to Hazard Identification, which was launched in 2019. The training equips employees and contractors with skills and a common understanding of hazard identification, and gives them a clear understanding of key terms such as hazard, hazard types, risk and controls. Since 2019, over 12,500 employees have completed this module at operations, exploration sites and projects. We also continued to review and update critical control standards and critical control verification criteria in line with our High-Potential Risk Control (HPRC) strategy. The implementation of this program allows us to routinely monitor for appropriate and effective critical controls. Teck has identified over 20 fatal hazards that form the basis of our program development. Each standard has been developed to highlight the critical controls that must be in place, together with a set of associated verification criteria that must be assessed routinely to inform the management of the control effectiveness. To date, we have had 12 new or updated critical control standards that were developed with thorough internal and external stakeholder engagement, with another five in final review process. Sites across Teck have implemented CCVs, and in 2021, over 30,000 CCVs were performed across the company.

In addition to the overarching HPRC strategy, Teck has continued to advance our Vehicle Safety Strategy to eliminate serious injuries and fatalities from vehicle-related incidents. Vehicle-related incidents represent Teck's singlelargest category of High-Potential Incidents. Vehicle-related incidents typically result from a combination of three factors: the driver, the road environment and the vehicle itself. Improvement actions have been defined for each of these three key factors. Teck has a business performance metric to reduce vehicle-related High-Potential Incidents. To support this goal, four vehicle-related critical control standards were developed in 2020/2021 for heavy mobile equipment, light vehicles, in-vehicle monitoring systems, and buses and people transport. Guidance for Traffic Management Plan requirements was also developed in 2021. In 2021, we saw a 21% improvement in our Vehicle High-Potential Incident rate.

Case Study: Case Study: Improving Safety through Our Vehicle Safety Strategy

Hazards posed by vehicles are common across the mining industry, independent of the jurisdiction of operation or the commodity being produced. To address this widespread challenge, Teck has been working on a Vehicle Safety Strategy (VSS) to enhance control standards for vehicles and contribute to the overall safety of our employees. Teck's VSS team has been working on programs that consider incidents that result from the driver, vehicle, or road environment. An important element to improving our strategy includes the assessment and adoption of technology, which reduces reliance on individual performance. Technology such as Proximity Detection or In-Vehicle Monitoring Systems has allowed us to monitor and evaluate our performance towards our goal of eliminating serious injuries and fatalities. Read the full case study at teck.com/news/stories.

Occupational Health and Hygiene

We work to continuously enhance our occupational health and hygiene risk assessments, and our monitoring and exposure controls, to protect the long-term health of employees. All of our operations were required to continue implementing exposure reduction plans in 2021. All exposure reduction plans are prioritized based on risk and must use engineering controls to control or eliminate exposures at their source. Our RTPM technology is already allowing us to better pinpoint causes of exposures and plan for their control.

We also continue to implement software to support our occupational medical assessment programs and improve the management of data from these programs.

Technology and Innovation

Dust exposure for operators can lead to occupational illness and disease; we are committed to reducing dust exposure using innovative technology and practices. In 2019, we commenced a pilot of Nanozen technology — a real-time, wearable particle sensor — at our Greenhills, Fording River and Highland Valley Copper operations to improve health and safety for haul truck operators. With the pilot complete, we have operationalized RTPM throughout Teck. We have also identified two other models of RTPM for trials that will begin in 2022. Teck is also currently working with other mining companies through the ICMM to advance this technology even further.

Our Technology and Innovation team is also supporting the development of digital tools to improve employee and contractor safety in and around heavy equipment and light vehicle interactions. This area, which is still under development, is expected to improve vehicle safety.

Safety Performance

We were deeply saddened by a fatality on January 16, 2021, on a production drill at our Red Dog Operations. Red Dog Operations implemented corrective actions following the fatality to minimize the potential for reoccurrence of a similar incident. Other corrective actions are under development that will be implemented across Teck. To help prevent this type of incident from occurring again, we conducted a detailed investigation and will be sharing learnings across

our company and industry. Teck also developed a new standard – Critical Controls for Surface Drilling Operations - that provides clear direction on the health and safety requirements for any surface drilling operation.

In 2021, our Total Recordable Injury Frequency (TRIF) was 10% lower than in 2020 and our Lost-Time Disabling Injury Frequency decreased year over year by 11% for Teckoperated sites.

Table 15: Health and Safety Performance — Teck Total^{(1),(3),(4),(5),(6),(7),(8)}

	2021	2020	2019	2018
Total Recordable Injury Frequency	0.64	0.73	0.82	1.01
Lost-Time Injuries	114	85	90	73
Lost-Time Injury Frequency	0.27	0.29	0.34	0.36
Disabling Injury Frequency	0.11	0.14	0.20	0.26
Lost-Time Disabling Injury Frequency	0.39	0.43	0.54	0.62
Lost-Time Injury Severity	31.70	27.52	41.00	73.35
Number of Fatalities	1.2 ⁽⁹⁾	0.4 (10)	1.2	2
Fatality Rate	0.003	0.001	0.004	0.010

Table 16: Health and Safety Performance – Teck-Operated^{(2),(3),(4),(5),(6),(7),(8)}

	2021	2020	2019	2018
Total Recordable Injury Frequency	0.66	0.73	0.88	1.16
Lost-Time Injuries	107	81	86	69
Lost-Time Injury Frequency	0.29	0.31	0.38	0.44
Disabling Injury Frequency	0.10	0.14	0.20	0.27
Lost-Time Disabling Injury Frequency	0.40	0.45	0.58	0.71
Lost-Time Injury Severity	31.95	21.64	43.16	94.59
Number of Fatalities	1	0	1	2

 Safety statistics in Table 15 include both employees and contractors at all of our locations (operations, projects, closed properties, exploration sites and offices). For sites where Teck owns more than 50%, safety statistics are weighted 100%, for sites where Teck owns 50% or less, safety statistics are weighted according to Teck's ownership of the operation. This includes the Antamina mine (22.5% interest). For tills interest), Neptume Bulk Terminals (46% interest) and NuevaUnion (50% interest). We define incidents according to the requirements of the U.S. Department of Labor's Mine Safety and Health Administration. Severity is calculated as the number of days missed due to Lost-Time Injuries per 200,000 hours worked.
Safety statistics in Table 16 include both employees and contractors at all of our locations in which Teck holds majority ownership and directly manages (operations, projects, closed properties, exploration sites and offices). For sites where Teck owns more than 50%, safety statistics are weighted 100%. We define incidents according to the requirements of the U.S. Department of Labor's Mine Safety and Health Administration. Severity is calculated as the number of days missed due to Lost-Time Injuries per 200,000 hours worked.
Increase in severity in 2021 is a consequence of having a fatality in 2021 versus no fatality in 2021 versus of one or more days beyond the initial day of the injury from the employee's scheduled work beyond the date of injury.
A Disabiling Injury is a work-related injury that results in close of one or more days beyond the initial day of the injury from the employee's checkuled work due on the next scheduled work shift after the day of the injury.
A fatality is defined as a work-related injury tha (1) Safety statistics in Table 15 include both employees and contractors at all of our locations (operations, projects, closed properties, exploration sites and offices). For sites where Teck owns more than

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High-Potential Incidents

High-Potential Incidents (HPIs) are incidents that have a reasonable likelihood to have caused a serious, permanently disabling, or fatal injury.²⁸ In 2021, our HPI frequency was 38% lower compared to 2020. Three Potentially Fatal Occurrences²⁹ (PFO) were reported at Teck-operated locations, which were investigated, and corrective actions were developed. Where relevant, the results are shared with all of our business units and operations in order to facilitate

a local gap analysis against the findings to prevent similar occurrences. We investigate potentially fatal occurrences to the same standard as fatalities.

While our total HPI frequency and severity have declined since 2017, our business units and operations continue to experience HPIs. As such, we continue to focus on improving our understanding of high-potential risk and control effectiveness.



Figure 18: High-Potential Incident Performance — Teck Total^{(1),(2),(3)}

Figure 19: High-Potential Incident Performance – Teck Operated^{(1),(2),(4)}



(1) Frequency indicators in Figures 18 and 19 are calculated by the number of events in the period multiplied by 200,000 and divided by the number of exposure hours in the period, which refers to the total number of actual hours worked by employees/contractors at a site where one or more employees/contractors are working or are present as a condition of their employment and are carrying out activities related to their employment duties.

activities related to their employment duties. Rounding of the individual numbers may cause a discrepancy in the total value. Safety statistics in Figure 18 include both employees and contractors at all of our locations (operations, projects, closed properties, exploration sites and offices). For sites where Teck owns more than 50%, safety statistics are weighted 100%; for sites where Teck owns 50% or less, safety statistics are weighted according to Teck's ownership of the operation. This includes the Antamina mine (22.5% interest), Fort Hills mine (21.3% interest), Neptune Bulk Terminals (46% interest), and NuevaUnión (50% interest) Safety statistics in Figure 19 include both employees and contractors at all of our locations in which Teck holds majority ownership and directly manages (operations, projects, closed properties, exploration sites and offices). For sites where Teck owns more than 50%, safety statistics are weighted 100%.

(4)

Process Safety Events

Process safety events are those that typically involve an unexpected mechanical integrity failure in a pipeline system or processing facility that may result in a fire, explosion, rupture or hazardous chemical leak. All HPIs (including

process safety events) were thoroughly investigated to identify corrective actions to minimize the potential for reoccurrence.

Table 17: Process Safety Events – Teck-Operated⁽¹⁾

	2021	2020	2019	2018
Process-Related HPIs	0	5	2	7
Frequency (per 1,000,000 hours)	0	0.10	0.04	0.22

(1) Teck-operated data covers all operations in which Teck holds majority ownership and directly manages.

Teck uses an HPI Classification Model to assess and determine HPIs, including Serious HPIs and PFOs

29 A PFO is an undesired, high-potential occurrence with the reasonable likelihood to have, under slightly different circumstances, resulted in a fatal injury to an employee or contractor.

Collaboration with Industry

We work with various local, national and international organizations and programs to incorporate best practices of health and safety into our system. We actively participate in health and safety programs and initiatives of the ICMM, the Earth Moving Equipment Safety Round Table (EMESRT) and the Mining Association of Canada (MAC).

Occupational Diseases

We report the incidence of occupational diseases at Teck, based on accepted workers' compensation claims from each jurisdiction in which we work, for the disease categories set out in Table 18. In some cases, as our systems for reporting occupational diseases continue to mature, occupational

disease cases and rates may increase in the short to medium term. This is a reflection of the long latency period associated with the development of occupational disease. We continue to enhance our application of improved risk-based controls to prevent occupational diseases.

Table 18: Occupational Disease Cases^{(1),(2),(3)}

Disease Category	2021	2020	2019	2018
Respiratory Diseases	3	2	1	1
Hearing Loss ⁽⁴⁾	2	0	4	2
Musculoskeletal Disorders	14	23	11	6
Cancer	0	0	2	0
Other Medical Disorders	3	5	1	8
Total	22	30	19	17

Table 19: Occupational Disease Cases by Gender^{(1),(2),(3)}

Disease Category	2021	2020	2019	2018
Female	4	6	1	4
Male	18	24	18	13
Total	22	30	19	17

Table 20: Occupational Disease Rate^{(1),(2),(3)}

Disease Category	2021	2020	2019	2018
Total Occupational Disease Rate (per 200,000 hours)	0.27	0.31	0.18	0.17
Total Occupational Disease Rate (per 1,000,000 hours)	1.35	1.57	0.90	0.84

Occupational disease data is collected from insurance providers such as WorkSafeBC; global exploration sites or marketing offices are not included.
Occupational diseases are defined as an adverse, generally chronic and irreversible health effect associated with overexposure to chemical, physical or biological agents in the workplace (e.g., silicosis, bladder cancer, beryllicsis, metal fume fever, asthma).
Workers' compensation claims data is for accepted claims over the past four years and is for employees only; contractor data is not included.
The reporting for hearing loss may be under-reported, due to limited data availability.

Occupational Disease Fatalities

Based on accepted workers' compensation claims and safety reporting from each jurisdiction in which we work, Teck is in some cases able to identify where long-term occupational diseases have contributed to fatalities. Common industry practice is to report on fatalities related to occupational diseases among current employees. However, due to the potential long-term nature of occupational diseases, Teck reports on all identified incidences of fatalities confirmed to be related to these conditions. This includes former employees, regardless of the length of time since the end of employment at Teck. This is a highly transparent practice that Teck considers to be best practice for our industry.

We recognize that, even with this industry-leading practice, there are limitations to this approach. Using claims approved by workers' compensation providers as the basis for these values may lead to under-reporting of occupational disease incidence. This is because most occupational diseases are captured by publicly funded or other medical systems, with little to no opportunity to identify the root causes of occupational disease. This can be due to challenges with latency, lack of association between the exposure and the disease, the multifactorial nature of occupational diseases, and limited medical surveillance.

Table 21: Occupational Disease Fatalities by Gender

	2021
Female	0
Male	0
Total	0

Case Study: Evolving Teck's Response to COVID-19: An Interview with Health and Safety Leadership

In 2021, two new health and safety experts joined Teck: our Vice President of Health and Safety, and Teck's first Chief Medical Officer. Combined, they bring over 50 years of experience in health and safety. While health and safety is a core focus of Teck and the mining industry as a whole, the COVID-19 pandemic has highlighted the cross-cutting role that health and safety leadership must have in all areas of business decisions and operations. We sat down with them to talk about the evolution of Teck's medical programs through the changing pandemic conditions, and how companies need to likewise evolve to adapt to the new reality of health and safety. Read the full case study at teck.com/ news/stories.

COVID-19 Response

In 2021, the COVID-19 pandemic remained the most critical short-term health and safety issue facing our company for the second year in a row. The year was marked by the worldwide spread of several variants of the COVID-19 virus, including the Delta and Omicron variants. In all instances, Teck responded quickly and worked to follow best evidence and the advice of local public health authorities. We maintained and further enhanced our preventive measures across all offices and operations to safeguard the health of our employees and contractors, while continuing to operate safely and responsibly maintain employment and economic activity to the extent possible. We continue to closely monitor and follow guidance from public health authorities, external experts and government.

Preventive Measures

In line with the advice of local public health authorities, we strongly encourage work from home wherever possible and limit all unnecessary travel. Recognizing the increased risk of aerosol-based transmission we now mandate the use of KN95/N95 respirators at operations and further focus on improving ventilation/filtration efforts.

We continue to use testing as a key layer of defence. With Teck's early adoption of testing and appropriate planning, we offer significant testing capacity at our sites despite a global shortage of rapid antigen tests. We also offer tests to our corporate office employees who are working from home.

A critical cornerstone of our approach is vaccinations. We actively support and encourage vaccination efforts through a combination of education, facilitating access, providing incentives and, in some cases, setting mandatory vaccine policies.

We continue to be vigilant and responsive to the changing COVID-19 pandemic, with a strong focus on the safety of our people and our communities.

Employee Engagement and Resources

We provide opportunities for our employees to demonstrate courageous safety leadership through participation in

peer-to-peer communications. Our Stopping the Spread – It Starts with Me and Speak Up to Stop the Spread campaigns provided employees with a forum to offer a personal perspective on the importance of stopping the spread of COVID-19 at work and in the community. Our Best Defence campaign provided employees with information on preventive measures, including information on COVID-19 vaccines and encouraged employees to get vaccinated and to get booster shots.

Employees are encouraged to send any feedback, questions or concerns regarding our COVID-19 response. Our *Doing What's Right* program provides a confidential and secure means for our employees to anonymously report concerns about conduct that may be contrary to our values and standards, including concerns regarding our COVID-19 response. The program is managed by a third party and prohibits retaliation against any person reporting a concern in good faith, or participating in an investigation relating to a concern.

We continue to have open conversations about the impact of the ongoing pandemic on mental health and well-being. We

have tried to recognize the impact of the latest wave of the pandemic on people's personal and professional lives, and we have advanced additional mental health supports. See the Mental Health section on page 65 for details. We continue to be vigilant and responsive to the changing COVID-19 pandemic, with a strong focus on the safety of our people and our communities.

Learn more on the Employee Resources page on our website.

Assessing Effectiveness

Teck has conducted tens of thousands of assurance checks against the preventive measures put in place, and continues to achieve very high rates of control conformance. These assurance checks cover Teck employees as well as contractors.

Communities and Public Health

Teck is also supporting critical social initiatives and increased healthcare capacity in areas where Teck operates. See page 93 of the Relationships with Communities section for more details.

Mental Health

At Teck, mental health is an important component of our goal of everyone going home safe and healthy every day. Our Employee and Family Assistance Program provides resources and support to help maintain good mental health. These include free access to mental health professionals for both in-person and virtual counselling for short-term needs; providing support for stress arising from grief and loss, crisis situations, relationship and family issues, and workplace challenges; nutrition-related services; and services for financial and legal advice. . In 2021, we also increased extended health benefits for clinical counselling. In addition, various health and wellness initiatives, including mental health awareness training and access to telehealth services, have been implemented across Teck.

Teck is currently in the process of developing a company-wide Mental Health Policy to further strengthen our existing initiatives. In response to the mental health impacts of the COVID-19 pandemic, Teck has implemented new and expanded services to help support our people. This includes providing our employees and their families in Canada, the U.S. and Chile with access to telemedicine services via phone, video or mobile health app. Our Canadian employees also have access to Best Doctors Mental Health Navigator, a virtual service that provides plan members with confidential and expert mental health guidance. Users can use these virtual health services to speak with and seek advice from clinicians, including psychologists and psychiatrists, about medical or mental health concerns. See page 82 of the Our People and Culture section for more details.

Community Health and Well-Being Initiatives

As a major producer of copper and zinc, Teck is working to promote best practices in our industry and to help improve the lives of people around the world through initiatives such as our Zinc & Health and Copper & Health programs. Through our initiatives, we are working toward advancing the United Nations Sustainable Development Goal 3: good health and well-being.

Teck is committed to helping solve the global health issue of zinc deficiency through therapeutic zinc, zinc

supplementation, food fortification, crop nutrition, awareness and advocacy. Through our Zinc & Health program, we have reached more than 160 million people globally, to date. See more details about the program on our website.

With our Copper & Health program, Teck is building partnerships, raising awareness and improving health outcomes for those most at risk and as we move through our daily lives. See more details about the program on our website.