

Mines Act Permit

Annual Reclamation Report – General information and format requirements

Updated May 2025

A. General information

1. Public disclosure

Annual Reclamation Reports (ARR) are public documents and are made available upon request. Annual Reclamation Reports are now posted on the [BC Mine Information Website](#).

Although the ARR are screened under the Freedom of Information Act harms assessment process prior to public posting, this is a reminder to please refrain from including sensitive information in reports that you do not want publicly released.

The province reserves the right not to accept copyrighted ARRs.

2. Purpose of the Annual Reclamation Report

The ARR is an annual reporting requirement of the Health, Safety and Reclamation Code for Mines in BC (the Code) (Part 10, S10.3.4) for mines in BC. In some cases, where S10.3.4 does not apply to a particular mine, the ARR is required as per conditions of the Mines Act permit. Conditions of a Mines Act permit may also spell out specific reportation requirements to include in the ARR. Submission of the ARR is necessary to maintain compliance with the Mines Act and the Code.

The Ministry of Mining and Critical Minerals (MCM) views the ARR submission as a synopsis of mining and reclamation activities, and as an opportunity to demonstrate compliance with approved plans, permit conditions, and best practices. It also allows for tracking effectiveness of monitoring programs for key mitigations implemented, identification of potential issues and liabilities that will require mitigation, and documentation of information gathered throughout life of mine. It is acceptable to provide the required information in appendices or external reports (submitted); however, if supplementary information is included as part of the submission, it must be included within the body of the report and outline why its pertinent to the ARR requirements.

Proponents must include information that highlights where plans have changed in comparison with previous reports and provide commentary on lessons learned and adaptive management actions in the relevant sections.

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The format requirements below are intended to provide guidance to proponents on the Chief Inspector's expectations of minimum content.

REMINDER: The mine is responsible for ensuring compliance with all conditions under the Mines Act, the Code, and site-specific permits. Please ensure that all information required by the permit is included in the Annual Reclamation Report.

3. Changes to mine plan, environmental protection program, or reclamation and closure plan

The ARR is not to be used as a mechanism for notifying MCM of any proposed changes to the approved Mine Plan and Reclamation Program. Proposed changes must be submitted to the Chief Permitting Officer as a permit amendment application, or as a Notice of Departure.

4. Submission instructions

Submission of the ARR is due by March 31st of the following year.

The ARR and associated spatial files can be submitted electronically.
Please note, starting January 1, 2026, reports will no longer be accepted via email.

All ARR's and accompanying spatial data must be submitted via the government mining industry web portal MineSpace at <https://minespace.gov.bc.ca>.

Proponents can login to MineSpace using a personal or business BCeID once they register with the Mines Digital Services (MDS) team at mds@gov.bc.ca.

NOTE: Submission of hardcover copies of the ARR are no longer required

5. Cover Letter/Email

The ARR submission must be accompanied by a cover letter that includes the following data in the tabulated format shown below:

Company:		
Mine Name:		
Mines Act Permit #:		
	Previous Report (e.g., 2024)	Current Report (e.g., 2025)
Total Disturbance Area (ha)¹		
Total Reclaimed Area (ha)²		
Total Revegetated Area (ha)³		
Total Area Exempt from Revegetation (ha) (i.e., pit walls)⁴		
Total Area Exempt from reclamation as per permit approval (ha)⁵		
Mining Production (annual total)		
Milling Production (annual total)		
Total Liability Estimate		
Date for next Five Year Mine Plan and Reclamation Plan update		

1. Cumulative total of all disturbances associated with the mine regardless of reclamation status.
2. Total of all reclaimed areas that have been signed off as “reclamation complete” and accepted by MCM.
3. Total of all areas that have been revegetated. In order for an area to be recorded as “revegetated”, it must have supported vegetation that will lead to the designated land use objective for at least one year.
4. Total of all areas that are exempt from revegetation as per Code Sections 10.9.2 and 10.9.13 (HSRC, 2024)
5. Total area exempt from reclamation standards as per Code Section 10.9.3 of the (HSRC, 2024) and/or permit conditions.

6. Shapefile/Digital Spatial Data

MCM requires that digital spatial files (i.e. shapefiles) be submitted with all ARR. Please note that the areas identified in the shapefile should correspond to the areas reported in Table 1 of the ARR. MCM requires that the spatial data submitted as part of prior year's reporting is updated to reflect any new disturbance and/or reclamation in the current reporting year. Any changes from shapefiles submitted in previous years must be clearly explained in the ARR.

MCM requests spatial data for the following:

- One shapefile which depicts both:
 - Disturbance areas (total cumulative, including areas where reclamation activities have occurred); and,
 - Revegetated areas and areas where reclamation activities are ongoing.

Please note: MCM requires the submission of ONE shapefile which depicts both the mine disturbance and reclamation status information. There should be no overlapping polygons.

Spatial Data Submission Standards are provided in Attachment 1, and additional file format information is available at [Annual Reclamation Reports - Province of British Columbia \(gov.bc.ca\)](https://www2.gov.bc.ca/gov/content/spe/spe2017/annual-reclamation-reports)

All spatial data must adhere to the spatial data standards identified in the link above. Starting January 1, 2026, spatial data which does not meet data standards will be rejected.

Mine spatial data may become publicly available through the BC Data Catalogue.

7. Standard Tables

Several tables are provided to assist mine proponents to report information required by the Chief Inspector. The following tables **may** be required for your project. If it is deemed not necessary to include one or more of the tables, please provide a brief rationale for the omission in the ARR. Note that it may be necessary to modify the table to accommodate the specific activities conducted at your site. The following tables are required:

Table 1: Summary of Areas Disturbed and Reclaimed

- Ensure that the exempt area reported is not double counted under the different classifications. In the body of the report, the exempt areas must be specified,

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rationale provided for the exemption, and maps included depicting the exempt areas.

Table 2: Quantities of Waste Rock, Tailings, Low Grade Ore, Coarse Reject, and Other Mine Waste

- Ensure that all waste types (including any water treatment wastes and contaminated soil), disposal areas and volumes are included even if waste was not added in the reporting year. Ensure maps include all waste disposal areas.

Table 3: Monthly Mining and Milling Production

- Ensure all areas mined are included in the table.

Table 4: Monthly Custom Milling Production

- Ensure that information on volumes of various ore feeds is reported in the table. Summarize the number of ore and tailings samples that have been collected to characterize the ML/ARD potential of the materials milled. Include all raw data and data interpretation in the report.

Table 5: Quantities of Soil and Overburden Salvaged and Stockpiled for Reclamation Use

- Ensure that characterization data are provided in the report that represent the materials salvaged and stockpiled, and maps included depicting stockpile locations.
- Ensure that areas that could not be salvaged due to safety or other reasons are identified in the report, along with a supporting rationale.
- Include volumes of imported growth medium material, if applicable.

Table 6: Summary of New Disturbance Through Departure of Approvals

- Identify the area of new disturbance (include disturbance to previously revegetated areas), associated with Departures from Approvals.

B. Report format requirements

The ARR must describe activities conducted in the previous year (or years), describe plans for activities to be conducted in the upcoming year, and follow the general format provided below.

Cover page

- “Annual Reclamation Report for 2025” Mines Act Permit Number: _____
- Name of Property:
- Company Name:
- Names and Phone Numbers of Mine Manager AND Person Responsible for Reclamation/Environment:
- Company and Authors of Reclamation Report (if different from above):
- Date:

Table of contents

Executive summary

- Summarize the essential information in less than a page.

1.0 Introduction

- Provide a brief history of the project.
- Describe the general location of the site and provide a location map.
- Describe baseline and/or regional environmental/ecological conditions.
- Describe regional management plans.
- Identify the goals and objectives of the reclamation program, including approved end land use(s) and land capability objectives.
- Summarize all reclamation activities conducted at the site and tabulate areas reclaimed (**Table 1**).
- Discuss how the current program fits into the concept of “progressive and ongoing reclamation”.

2.0 Mining program

Describe:

- Surface development to date.
- Current life of mine plan.
- Surface development in the past year.

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- Surface development projected over the next five years.

Discuss:

- Areas disturbed (location, aspect, and size in hectares).
- Disposal/storage locations and volumes of tailings, waste rock, coarse rejects, ore, low grade ore, overburden, water treatment wastes, and other (**Table 2**).
- Mining and milling production (**Table 3**).
- Custom Milling production (**Table 4**).
- Stockpiling of surface soil materials (location, volume, and characteristics) (**Table 5**).
- Areas disturbed by Departures from Approval (**Table 6**).

3.0 Environmental protection program

Describe the Environmental Protection Program over the **past year** and **next year** (in detail), and projected for the **next 5 years** (in summary), including the following (where applicable):

Environmental Protection Program:	Report Requirement:
Environmental Management Systems/Plans/Audit	<ul style="list-style-type: none">- Summarize the environmental management plans implemented.- Summarize the audit undertaken to review the EMS, EMPs, and SOPs.- Document and provide a schedule for the revisions necessary to address the audit findings.
ML/ARD Characterization and Mine Waste Management	<ul style="list-style-type: none">- Describe static and kinetic testing programs.- Provide raw, cumulative, summary data and interpretation (e.g., acid base accounting, mineralogical, and elemental composition).- Provide an inventory of volumes of all materials excavated, exposed, created, or disturbed during mining (e.g., waste rock, tailings, ore, low grade ore, coarse reject and other) by ML/ARD classification (Table 2).- Summarize the effectiveness of mine waste handling and management programs. Identify any issues encountered or expected and actions that have or will be undertaken to address.
Surface Water Quality and Quantity	<ul style="list-style-type: none">- Summarize the drainage monitoring program, including flows and water quality at monitoring locations both on and off of the mine property.- Include data range and central tendencies for data

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Environmental Protection Program:	Report Requirement:
	<p>summaries.</p> <ul style="list-style-type: none"> - Include maps depicting hydrologic features and monitoring locations. - Include figures illustrating time series of parameters including pH, sulphate, alkalinity, acidity, base cations, major metals, trace elements, and major nutrients. - Identify any water quality trends or issues and any actions that have or will be undertaken to address.
Groundwater Quality and Quantity	<ul style="list-style-type: none"> - As above under Surface Water Quality and Quantity.
Water Quality Prediction, Mitigation, and Treatment	<ul style="list-style-type: none"> - Include a comparison of predicted water quality versus measured water quality, including key source terms used in predictions. - Summarize and assess effectiveness of water quality protection and mitigation measures for the mine, including ML/ARD. Identify any issues encountered or expected and actions that have been or will be undertaken to address.
Water Management	<ul style="list-style-type: none"> - Describe and map pre-mining drainages/watersheds. - Describe and map the current configuration of water management conveyance features and infrastructure, and changes to natural drainages/watersheds.
Erosion and Sediment Control	<ul style="list-style-type: none"> - Describe erosion and sediment control activities (project-specific, routine, seasonal/event-based). - Describe ESC effectiveness monitoring programs (and summarize results).
Soil Salvage and Stockpiling	<ul style="list-style-type: none"> - Map of soil and overburden stockpiles. - Tabulate volumes of soil and overburden stockpiled and identify sources of origin (i.e., salvage locations) Table 5. - Describe soil characteristics and suitability for reclamation. - Describe activities conducted to protect soil stockpiles.
Landfarm Management	<ul style="list-style-type: none"> - Describe landfarming activities (material volumes, contaminants, treatment, monitoring, use/disposal), if applicable.

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Environmental Protection Program:	Report Requirement:
Vegetation Management	<ul style="list-style-type: none"> - Describe vegetation monitoring and management (e.g., construction clearing, invasive plant species, and metal uptake).
Wildlife Protection	<ul style="list-style-type: none"> - Summarize programs for preventing wildlife-human interactions and wildlife monitoring. - Provide results were applicable (including summary of incidental observations).
Archaeological Resources	<ul style="list-style-type: none"> - Describe archaeological and heritage sites identified.

4.0 Reclamation program

Describe the Reclamation Program over the past year and next year (in detail) and projected for the next 5 years (in summary), including the following (where applicable):

Reclamation Standard/Activity:	Report Requirement:
End Land Use	<ul style="list-style-type: none"> - Summarize the end land use plan and provide a map of approved end land use(s) for the mine site .
Long-Term Stability	<ul style="list-style-type: none"> - Summarize any work completed to address stability of waste dumps, dams, impoundments, pits, borrows, roads, and watercourses.
Revegetation	<ul style="list-style-type: none"> - Describe revegetation treatments, application area, species selection, application specifications, amendments/fertilizers, locations, objectives (such as trials, erosion control, and final reclamation for specified end land use). - Provide a map identifying the location of revegetation activities. - Describe the revegetation evaluation/effectiveness program(s) for revegetation treatments.
Growth Medium	<ul style="list-style-type: none"> - Describe soil replacement depth/volumes, locations, application area, surface

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Reclamation Standard/Activity:	Report Requirement:
	<p>preparation, decompaction, and drainage/erosion control.</p> <ul style="list-style-type: none"> - Provide a map identifying the location of soil replacement activities - Describe the soil monitoring program.
Landforms	<ul style="list-style-type: none"> - Describe landscaping, contouring, and resloping previously conducted (specify application area). - Provide a map identifying the location of surface preparation activities.
Structures and Equipment	<ul style="list-style-type: none"> - Describe removal of equipment, scrap/recyclables, and treatment of foundations.
Waste Dump Reclamation	<ul style="list-style-type: none"> - Describe progressive and final reclamation on waste dumps (include details such as material characteristics, locations, elevations/heights, size of areas, slope angles, and aspects).
Watercourse Reclamation	<ul style="list-style-type: none"> - Describe progressive and final reclamation for watercourses.
Open Pit Reclamation	<ul style="list-style-type: none"> - Describe progressive and final reclamation for open pits.
Tailings Storage Facility and/or Impoundment Reclamation	<ul style="list-style-type: none"> - Describe progressive and final reclamation for impoundments.
Road Reclamation	<ul style="list-style-type: none"> - Describe progressive and final reclamation for access and mine haul roads.
Infrastructure Decommissioning/Reclamation	<ul style="list-style-type: none"> - Describe decommissioning/reclamation of infrastructure (e.g., buildings, power distribution and transmission lines, fuel farms, etc.).
Securing Openings	<ul style="list-style-type: none"> - Describe activities conducted to secure potentially dangerous surface areas and underground openings.
Disposal of Hazardous Materials, Chemicals and Reagents	<ul style="list-style-type: none"> - Describe removal and disposal activities for hazardous materials. - Describe programs for investigating contaminated sites, remediation of contaminated media, and hazardous materials and chemical management and disposal.

Reclamation Standard/Activity:	Report Requirement:
Reclamation Research	<ul style="list-style-type: none">- Describe research activities, for example, plant species selection, optimal soil depths for specified end land uses, surface preparation/erosion control/compaction treatment techniques, native species collection, propagation, transplanting, landforming, drainage modeling, and water body reclamation.- Describe research collaborations and outreach.- Detailed research programs documented in standalone reports may be submitted separately.
5 Year Reclamation Plan	<ul style="list-style-type: none">- Describe the nature and scope of reclamation and research programs for the next 5 years.

5.0 Reclamation liability cost estimates

Provide a detailed estimate of the total expected costs of outstanding reclamation obligations of the mine, including all long-term costs for monitoring, maintenance, and water treatment. Development of Reclamation Liability Cost Estimates are to follow the [Interim Major Mines Reclamation Security Policy \(MCM 2022\)](#) and the [Major Mine Reclamation Liability Cost Estimate Guidance \(MCM 2024\)](#).

Proponents are reminded that estimated costs should be calculated over the next 100 years. Clearly indicate estimated liability costs associated with work completed under Notice of Departures for the year.

If the detailed cost estimates are expected to be filed as a separate confidential report, please clearly specify in the report cover letter. The total reclamation liability estimated for the site should still be provided in the Cover Letter Summary Table.

6.0 Notice of departures

As per MCM's [Departure from Approval Guidance for Major Mine Permit Holders \(2023\)](#), proponents are required to report Departures from Approval in the Annual Reclamation Report. Provide details related to new disturbances associated with Notice of Departures (Table 6), estimate of the new liability, and map of all new disturbances.

7.0 Maps and photos

Maps and photos should be included within the body of the text where possible. Large maps and photo series can be included in appendices; however, page references or hyperlinks should be provided to help reviewers locate the information.

In addition to the shapefiles required, maps must also be provided within the report document, such as:

- Maps of the current Mines Act permit boundary, including disturbed areas, mine components/facilities, waste disposal locations, and soil stockpiles depicted graphically on contour maps, ortho-photo mosaic overlays, or other similar methods, at a scale of 1:10,000 or better. Clearly indicate the map projection used.
- Reclamation areas must be shown on contour maps or ortho-photo mosaic overlays at the same scale as the surface development map. If it is not possible to provide maps in the body of the report, please ensure that the specific location maps are provided, and that Appendices are clearly identified.
- Representative and annotated photos should be included that complement the written descriptions of activities conducted on-site.
- Include a map showing the location and extent of all new disturbances created through Notice of Departures for the year.