

# MAP GUIDELINES

This document provides information to help Operators assemble permit maps that meet the requirements of the Metal Mine Reclamation Act (MMRA) (Title 82, chapter 4, part 3, Montana Code Annotated (MCA)) and its implementing rules (Administrative Rules of Montana (ARM) Title 17, chapter 24, part 103). The primary purpose of the maps is to document and display the site's physical location. The maps also display existing and proposed features of the site, the surrounding area, and the proposed operation. The maps are critical components of the permit application and constitute legal documents that become part of the permit.

## **Section I - Map Criteria**

1. Create a **General Location Map** to show the site's location in relation to the nearest town or major intersection to allow the public to locate the proposed site. Label roads from the nearest town or intersection to the site on the Location Map. The Location Map can be shown on an aerial photo or topographic background.
2. Create a **Project Map** at a readable scale that is zoomed in as close as possible to the proposed site boundary, while showing all features pertinent to the project.
3. Unless submitted in electronic format, maps must be submitted on paper no larger than 8 ½ x 11 or as otherwise approved by the Department.
4. Each map must include the information listed below.

## **Section II - Map Labels & Features**

**ALL MAPS** –The map must include the following items:

1. Map Title
2. Operator Name
3. Site Name
4. Bar Scale
5. Date of Drafting
6. North Arrow
7. Legend identifying all features

**GENERAL LOCATION MAP** - The intent of this map is to meet 82-4-332(2), MCA, which requires the operator to provide a map showing the location of the proposed operation sufficient to allow the public to locate the proposed site. The General Location Map may be displayed on an aerial or topographic background and must show the site's location in relation to the nearest town or city. Roads must be labeled from the nearest town to the site on the General Location Map.

**PROJECT MAP** - Must show and identify the following existing and proposed features as applicable:

- (a) New roads
- (b) Overland travel routes
- (c) Label all Trenches

- (d) Label all Portals
- (e) Label all Drill Pads
- (f) Sump Locations (if outside drill pad footprint)
- (g) Buildings (existing, proposed, and temporary)
- (h) Camp Area
- (i) Lay down/loadout area
- (j) Fuel Storage Area
- (k) Water Crossings
- (l) Other features pertinent to the project

**LEGENDS** – Legends are a useful tool used to explain what the symbols and line types denoted on a map represent. In the legend, the Operator must display the symbol or line type that denotes a feature or features on the map with text explaining what the symbol or line type is. Text **should not** be used in lieu of displaying the symbol in the legend (e.g. black line = stockpile, green dot = soil test pit; are not acceptable). Refer to the below example for the recommended way to utilize a legend:











