

# MVLWB

## Standards for Geographic Information Systems (GIS) Submissions

March 1, 2012

Mackenzie Valley Land and Water Board  
Gwich'in Land and Water Board  
Sahtu Land and Water Board  
Wek'èezhìi Land and Water Board



*Mackenzie Valley Land and Water Board*



## 1.0 Introduction

The Mackenzie Valley, Wek'èezhii, Gwich'in, and Sahtu Land and Water Boards (the Boards) developed the following standards to ensure that Geographic Information System (GIS) submissions are complete and accurate and will enable all current and future uses. GIS data must be submitted with applications and final plans associated with the following types of projects:

- ◇ mineral exploration
- ◇ oil and gas exploration and development
- ◇ seismic activity
- ◇ pipelines and gathering systems
- ◇ mining and milling developments
- ◇ new access for both all-season and winter roads
- ◇ hydro developments and transmission lines.

If GIS data are not available, contact Board staff before submitting your application or final plan. The Boards may also request GIS data at other stages during the life of the project.

## 2.0 GIS Submission Standards

### 2.1 Content

Please submit electronic GIS data, when available, for all aspects of the project including:

- ◇ buildings
- ◇ structures
- ◇ campsites
- ◇ fuel and supply storage sites
- ◇ cutlines, roads, trails, rights-of-way
- ◇ drill locations
- ◇ sumps
- ◇ well sites
- ◇ water withdrawals
- ◇ water crossings
- ◇ any other works/sites to be constructed or used in the operation or which would be affected by the operation

Hard copies of map data must also be submitted with all applications unless otherwise directed. Please contact Board staff to confirm the requirements for hard copies.

### 2.2 Format

GIS data must be submitted in a format compatible with ArcGIS 9.x Desktop. The Boards will accept ArcView-compatible formats including:

Vector Data: Shape (.shp) files only. AutoCAD drawings are not acceptable.  
Image (Raster) Data (satellite imagery, aerial photography, DEMs): GeoTIFF, ortho-corrected and georeferenced

### 2.3 Projection

All data must be in the following projection standard:

- ◇ Name: NAD83 / NWT Lambert
- ◇ EPSG Code: CRS 3580
- ◇ Projection: Lambert Conformal Conic
- ◇ Datum: NAD83
- ◇ 1st standard parallel: 62.0
- ◇ 2nd standard parallel: 70.0
- ◇ Central meridian: -112.0
- ◇ Latitude of origin: 0.0
- ◇ False easting: 0
- ◇ False northing: 0
- ◇ Scale Factor 1

### 2.4 Metadata

Your data sets must include basic metadata documentation to be considered complete. We suggest that you use one of the Federal Geographic Data Committee (FGDC) approved metadata standards to fill out the ESRI metadata stylesheet. For more information, visit the FGDC Website: <http://www.fgdc.gov/metadata/geospatial-metadata-standards>.

The documentation must include, at a minimum, the following:

- ◇ company name
- ◇ project / data set description
- ◇ scale of data set compilation (e.g. 1:20,000)
- ◇ datum and projection of data set compilation (see above)
- ◇ data set creation date and date and details of any updates
- ◇ agency and person responsible for the data set and contact information
- ◇ list of attributes and description of each.