



mnc



High River Flood Relief:

MNC Delivered GIS Support for Emergency Flood Recovery in High River

In June 2013, the Town of High River, Alberta, was severely impacted by catastrophic flooding that caused widespread damage to public and private infrastructure. In response, the Government of Alberta contracted Tervita Corporation to lead the remediation and recovery efforts. To support this urgent work, Tervita engaged the joint team of **MNC (Martin Newby Consulting Ltd.)** and Silvacom Ltd. to deliver critical

geospatial support and develop a centralized digital solution.

MNC and Silvacom's rapid GIS support, along with the development of an application for field-based property assessment, helped streamline coordination during a complex emergency response effort.



Aftermath of the June 2013 High River flood.

CHALLENGE

In the wake of the disaster, Tervita required fast and accurate GIS support to assist the Government of Alberta, insurers, and municipal staff in compiling, organizing, and sharing location-based information across the Town of High River.

KEY CHALLENGES INCLUDED:

- **Managing spatial data** for a wide range of public and private assets impacted by the floods.
- Creating a system to **support real-time field assessments** and recovery coordination.
- Enabling multiple stakeholders to **access and contribute to shared geospatial data** during an evolving crisis.

SOLUTION

The MNC / Silvacom team worked closely with Tervita to provide essential GIS services and develop a digital tool to support ground-level flood recovery.

KEY STEPS IN THE SOLUTION:

1 RAPID GIS SUPPORT AND DATA MANAGEMENT:

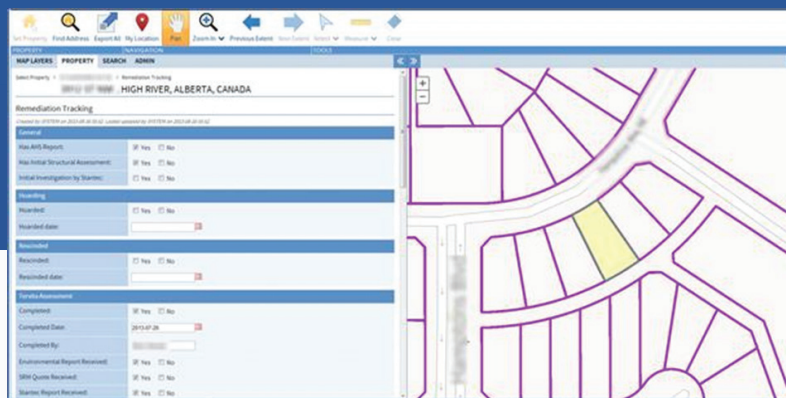
- Delivered immediate GIS services and data entry to support the operational needs of recovery teams.
- Compiled and structured asset-related data for integration into a shared mapping platform.

2 WEB-BASED APPLICATION DEVELOPMENT:

- Silvacom developed a centralized web application using Esri's ArcGIS platform.
- Enabled secure data collection, storage, and retrieval to track property-level information during assessments.

3 MOBILE-ENABLED FIELD COORDINATION:

- Deployed a spatial interface accessible via iPads for field crews.
- Included mapping tools, form-based data collection, and coordination features for command center supervisors and door-to-door teams.



Software created for the High River flood relief effort

RESULTS

The final solution provided a centralized and interactive platform that supported both office-based supervisors and field crews in recovery coordination.

KEY BENEFITS INCLUDED:

- **Enabled map-based visualization** of property recovery status and asset information.
- **Supported integration** of operational layers and base maps to guide decision-making.
- **Facilitated structured workflows** for damage assessment and property tracking.
- **Enhanced coordination** between assessment teams, remediation crews, and agency stakeholders.

As solution providers during the emergency, **MNC and Silvacom demonstrated the value of rapid GIS deployment for emergency response**, enabling faster decision-making, improved resource coordination, and more effective communication in times of crisis.

MNC SERVICES & TECHNOLOGY USED

SERVICE CATEGORIES:

- GIS Strategy and Planning
- Data Conversion and Migration
- ArcGIS Services
- Geospatial Development

TECHNOLOGY PLATFORM & TOOLS:

- ArcGIS (Esri)



CONTACT US TODAY to discuss your geospatial needs.

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ABOUT MNC

The Cadastral and Parcel Mapping Experts



MNC is a trusted leader in cadastral and parcel management with 25+ years of experience delivering GeoAI-ready datasets, modernizing parcel fabrics, and automating GIS workflows. As an Esri Gold and Cornerstone Partner with a Parcel Management Specialty and State and Local Government Specialty, MNC provides scalable advanced GIS, ArcGIS Pro, FME automation, MicroStation, AutoCAD and cloud-ready geospatial systems that improve data quality and support government land administration modernization across Canada, the USA, and the Caribbean.

