RPM Aerial Services

Applications for Civil Engineering

Doing it by the Book! Safely & Professionally

RPM Aerial Services (RPM) is a Canadian company located in Holyrood, Newfoundland & Labrador. We provide high density aerial data via LiDAR derived digital elevation modeling (DEM), and other professional aerial services. RPM utilizes unmanned and/or manned aviation equipment for data collection depending on project scope to minimize overall project costs and complete the work as efficiently as possible.

Our Capabilities:

- LiDAR
- Photogrammetry
- High Definition Aerial Inspections:
  - High resolution picture and video captured with state-of-the-art high-fidelity aircraft & sensors to ensure precise, reliable and repeatable data capture
  - Thermography utilizing high resolution radiometric calibrated infrared sensors

Services we offer:

- Localized high-density topographic models and floodplain mapping
- Linear route mapping
- Coastal and riverbank erosion monitoring
- Landslide / avalanche hazard monitoring
- Site, progress, and as-built surveys (LiDAR and photo based)
  - Dams, road infrastructure, docks, airports etc.
- High / wide load route planning
- Aerial photos, orthomosaics and photogrammetry
- Infrared based Inspections and orthomosaics
- Construction based wildlife monitoring
- Mine site volumetric, progress and environmental monitoring
- In class and in field RPAS (Remotely Piloted Aircraft Systems) training

Your sole source aerial data provider.

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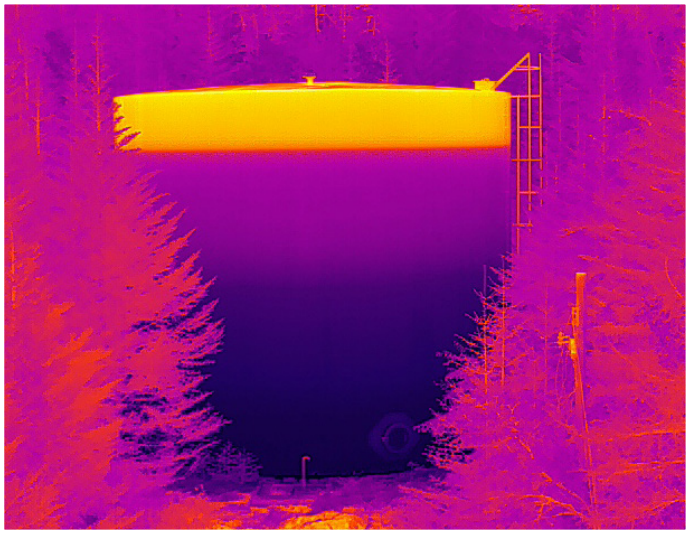
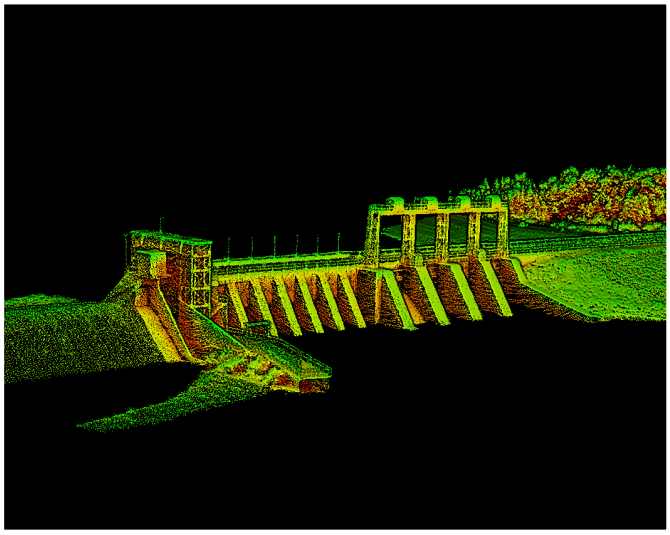


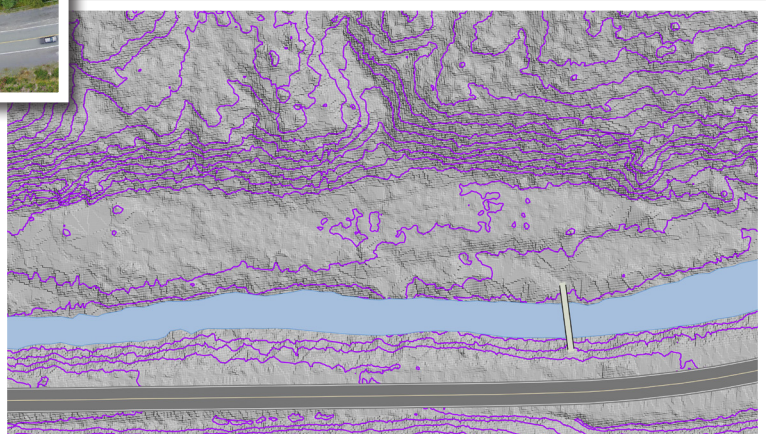
Utilizing state of the art infrared cameras RPM Aerial can capture subtle temperature changes which can be used to detect water levels, sediment levels and in ground water leak detection.

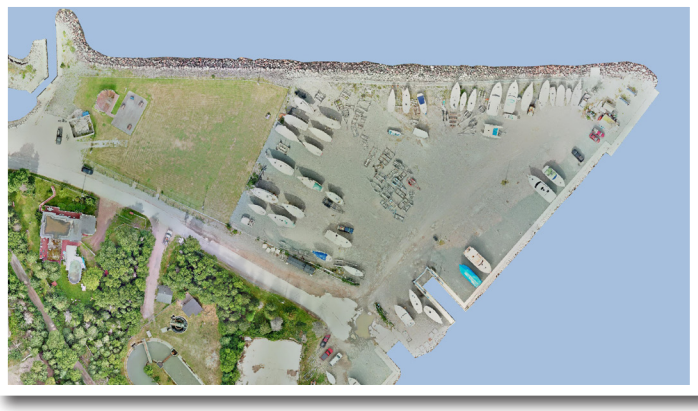


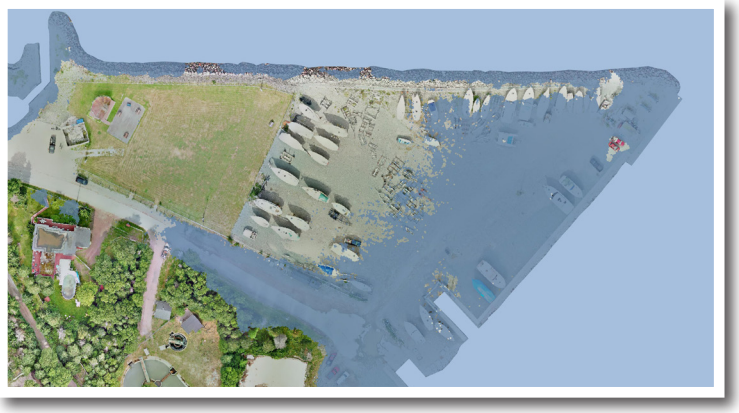
LiDAR derived as-built surveys can model infrastructure such as dams, buildings, and roads with centimeter accuracy.

Orthomosaics are large, high quality images derived from combining multiple smaller aerial images known as Orthophotos.

LiDAR derived surveys provide highly accurate topographic models even in heavily vegitated areas.







LiDAR derived models can project flooding such as storm surge events.