

Aggregate Use and Permitting as administered by the Ministry of Natural Resources & Forestry

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Colin Hovi, Regional Aggregates Specialist
Northwest Region

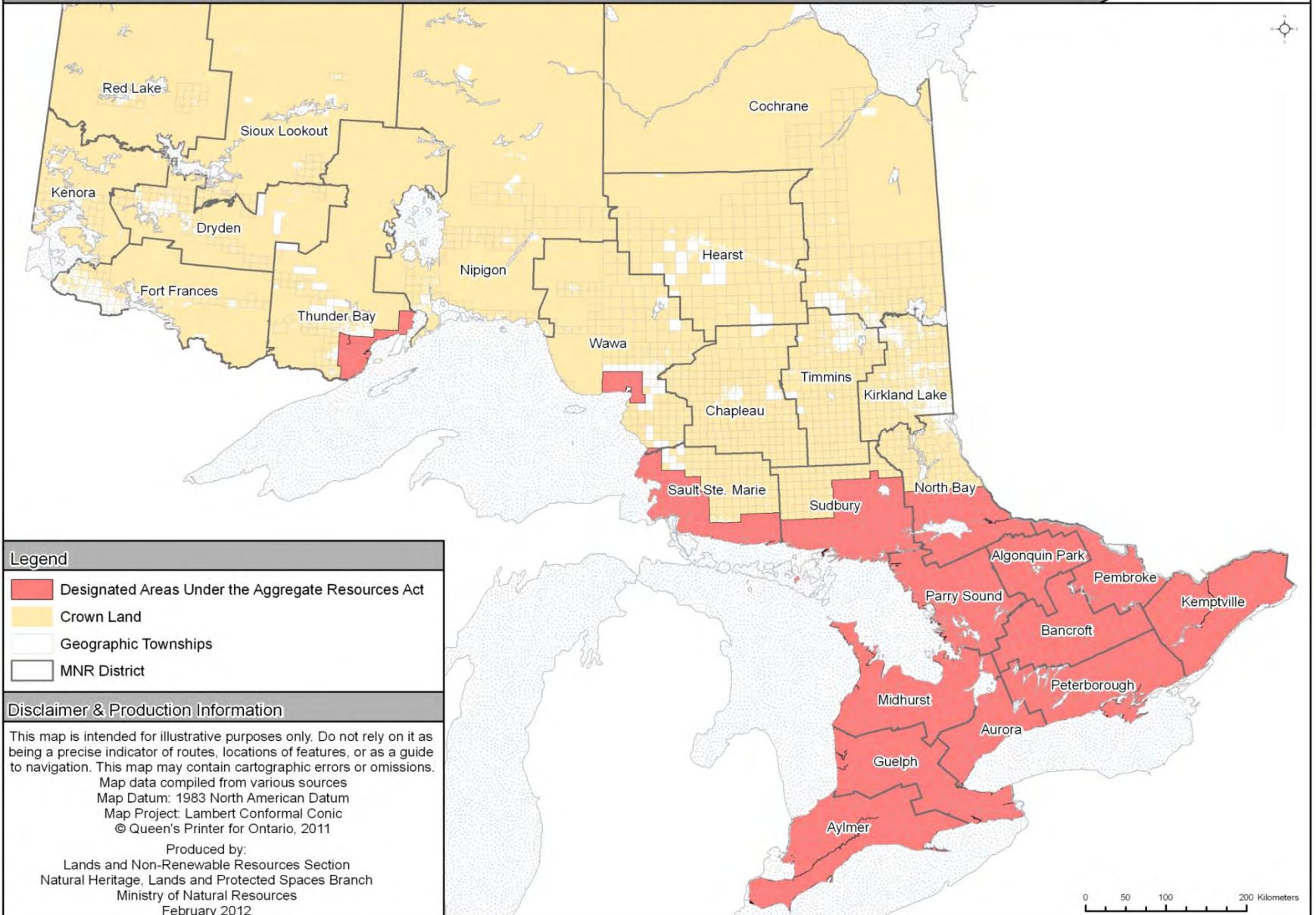
Purposes of the Aggregate Resources Act (ARA)

- to provide for the management of the aggregate resources of Ontario;
- to control and regulate aggregate operations on both Crown lands and private lands;
- to require the progressive and final rehabilitation of land from which aggregate has been excavated; and
- to minimize the adverse impact on the environment from aggregate operations.

Where does the ARA apply?

- The Act and the regulations apply to the excavation of:
 - All aggregate and topsoil on Crown land and all Crown-owned aggregate
 - All aggregate on private land in designated areas of the province.

Designated Areas Under the Aggregate Resources Act



When does the ARA not apply?

- The Act and the regulations do not apply where:
 - material is not defined as “aggregate” under the Act;
 - material is excluded from the definition of “rock” under the Act; or
 - material is being extracted through underground mining (i.e. not open pit).

What is aggregate?

Generally: sand, gravel, clay, earth and bedrock

Does not include:

- Materials like gold, silver and copper (metallic ores);
- Types of rock excluded from the definition (e.g. graphite).



Pit - Unconsolidated material extracted
(i.e. sand & gravel)



Quarry – Consolidated material extracted
(i.e limestone)

Permit Application Requirements

- Site Plan (detailed drawings of site)
- Reports
 - Summary Statement (water table evaluation)
 - Hydrological Report (below water table)
 - Natural Environment
 - Cultural Heritage
- Consultation
- \$500 Application fee to MNRF

Reports

Summary Statement

- Summary Statement must include
 - Elevation of the established groundwater table
 - Must be prepared by Hydrogeologist
 - If agricultural area – Classification using the Canada Land Inventory and details of rehabilitation to return to viable lands

Reports

Hydrogeological

(For below groundwater operations)

- Level 1
 - Potential for adverse effects to groundwater
- Level 2 (where level 1 identified potential adverse affects)
 - Wells, springs, aquifers, surface water
 - Diversion and drainage
 - Impact assessment
 - Mitigation
 - Monitoring plan

Reports

Natural Environment

- Reports must be prepared by a qualified person.
- The Level 1 must clearly conclude whether each of the features exists on or within 120m of the site.
- If any of these features are identified, then a Level 2 report (impact assessment) is required.
- Reports must provide sufficient information on the methodology and findings to substantiate the conclusions.

Reports

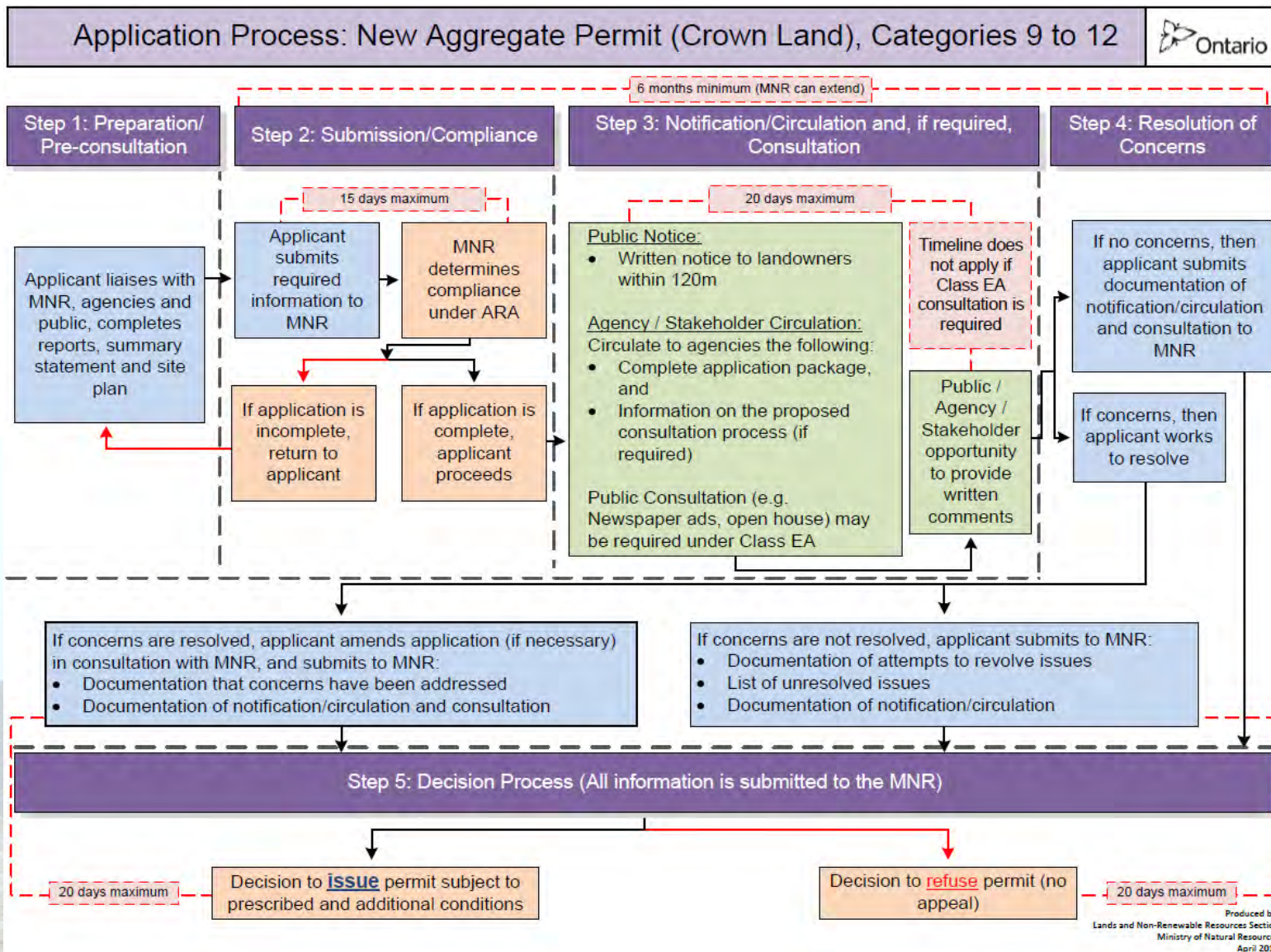
Cultural Heritage

- The purpose of a Cultural Heritage Resource report is to ensure that archaeological resources are identified, assessed for their significance, and protected (i.e. preserved or collected) in order to better understand and appreciate Ontario's culturally diverse Aboriginal and non-Aboriginal communities heritage.
- Level 2 – 4 requires licenced archaeologist
- Proponent may circulate an aggregate application without Ministry of Tourism, Culture and Sport sign-off, but licence or permit cannot be issued until MTCS sign-off is received.

Notification & Consultation

- 20 Day Notification Period
- Written notice to landowners within 120 meters
- Application package to
 - MNR
 - Municipality
 - Conservation Authority
 - MTO
 - MNDM
 - Any First Nations as MNR prescribes

The Process



Prescribed Conditions

- Dust and Noise mitigated
- Spills contingency program
- Fuel storage
- Water discharge
- Permit to take water

Operational Standards

- Gate
- Stripping/Topsoil
- Entrances
- Setbacks from
 - Boundaries
 - Water
 - Other values

Compliance Assessment Report (CARS)

- Boundaries marked
- Operating sequence
- Extraction depth
- Stockpiles
- Topsoil
- Rehabilitation
- Importation of material

MNR Compliance

- Audit 20% of CARS annually
- Inspection Notices
- Suspensions
- Rehabilitation Orders
- Revocation
- Charges (\$500 - \$30,000 per day)
- Court Orders

Rehabilitation

- Slopes
 - 3:1 for consolidated
 - 2:1 for quarry material
- Topsoil
 - Spread and seeded/planted



Contact

Colin Hovi

Regional Aggregates Specialist

475-1175

Colin.Hovi@Ontario.ca