

**Code of Practice for Pits
Registration Application (Schedule 1)**

Date: _____

Previous *Environmental Protection and Enhancement Act* Approval Number: _____

Water Act authorization required? Yes No

If Yes, application submitted or current *Water Act* Authorization Number: _____

Name of Applicant (company or person in whose name the pit will be registered):

Address: _____

Phone: _____ Facsimile: _____

e-mail: _____

Name of Person Submitting Application: _____

Company Name: _____

Job Title: _____

Address: _____

Phone: _____ Facsimile: _____

e-mail: _____

Signature: _____

Name of Primary Contact for Pit: _____

Job Title: _____

Address: _____

Phone: _____ Facsimile: _____

e-mail: _____

Pit Location Municipal Address or LSD-Sec-Twp-Rge-Mer	Registered Owners Name, Address and Phone Number	Occupants Name, Address and Phone Number

9.2 Activities Plan Checklist and Form

Items on the checklist that are indented are useful for preparing the application but are not required to be submitted.

Part 1

- The type of product that will be removed
- The current pit size – include access roads, stockpile sites and all other locations where infrastructure is present. If there is no pit indicate Not Applicable or No Pit Yet
- The average thickness (in centimetres or metres) of each of topsoil, subsoil, overburden, and aggregate
- The texture(s) of the topsoil - organic soil, mineral soil, clay loam, silty loam, sand, sandy loam, loam, clay, silt, or other (describe)
- The techniques that will be used to prevent wind and water erosion and control dust
- Involvement in local or regional air monitoring programs
- Inactive pit reclamation plans – for portions of the pit that will be inactive for more than two years
- Scale drawings of existing pit conditions and the proposed pit operations
- Cross-section drawings of the pit
 - Aggregate and overburden inventory or testing reports
 - Estimated percentage of the deposit that is reject material
 - The texture of the subsoil – clay, heavy clay, silt, silty clay, sand, sandy clay, or other (describe)

Part 2

- The maximum planned pit size – include access roads, stockpiles sites and all other locations where infrastructure will be present
- The depth to water in any test holes; indicate depth in each test hole where water was found
- The type of operation(s) at the pit - wet pit excavation, concrete production, salt mixing, asphalt mixing, spraying truck box liners, aggregate washing, use of other materials for reclamation
- Measures to prevent or mitigate adverse effects from the above activities
- The proposed end land uses and their percentage of the reclaimed landscape – cultivation, hayland, pasture, native range, grassland, forest, wildlife habitat, water body, proposed subdivision, other (describe)
- Information on the release of pit water – need for release, methods, location, timing
- Replacement thickness of topsoil and subsoil
- Scale drawings of the reclaimed pit

- Cross-section drawings of the reclaimed pit
- Reclaimed surface water body information
 - The average depth of excavation including the removal of topsoil, subsoil, overburden and materials
 - The expected life of the deposit in years
 - The equipment that will be used for removing and replacing topsoil and subsoil – bulldozer, grader, scraper/ buggy, front end loader, other (describe)
 - How the property boundaries and buffers have been located and marked
 - The extraction setback – show calculation for each different setback
 - A detailed description of the quality, depth and variation of any groundwater encountered in test holes or identified from surveys, databases or reports
 - The CLI soil capability class for agriculture of the pre-disturbed landscape and the expected capability class in the reclaimed landscape – the relationship of slopes to soil capability classes are

Class 1, 2, 3	Level, nearly level or very gentle slopes no steeper than 20:1
Class 4	Gentle slopes; no steeper than 10:1
Class 5	Moderate slopes; no steeper than 6:1
Class 6	Strong slopes; no steeper than 3:1
Class 7	Very strong slopes; no steeper than 2:1
- The seed mixtures or other forms of revegetation to be used.
- Signature and title of person who developed the Activities Plan

Activities Plan (Schedule 2)

Part 1 Information

Aggregate Type (check off all that apply): Gravel Sand Clay Marl

Current Size of Pit: _____ (hectares / acres)

Average Thickness (indicate metres or centimetres for each one):

Topsoil _____ Subsoil _____ Overburden _____ Aggregate _____

Topsoil Texture (check all that apply):

organic soil mineral soil clay loam silty loam sand sandy loam

loam clay silt other _____

Description of techniques to prevent wind and water erosion, and to limit the movement of dust from the pit: _____

Participation in local or regional air monitoring initiative: _____

Inactive pit conservation and reclamation techniques: _____

Scale drawings and cross-sections of existing pit conditions and planned sequence of operation attached.

Part 2 Information

Maximum planned size of pit: _____ (hectares / acres)

Depth to groundwater (metres) in test holes (indicate each depth if multiple holes): _____

Planned activities at the pit (check off all that apply): wet pit excavation

concrete production mixing salt and aggregate mixing asphalt with aggregate

spraying truck boxes aggregate washing use of alternative materials for reclamation

Mitigative measures for all of the above activities: _____

Proposed land uses for reclaimed pit (check all appropriate boxes):

cultivation _____% hayland _____% pasture _____%

native range _____% grassland _____% forest _____%

wildlife habitat _____% waterbody _____% proposed subdivision _____%

other (specify) _____%

Pit water release (rationale for release, techniques and discharge points): _____

Average topsoil replacement depth (cm): _____

Average subsoil replacement depth (cm): _____

A 15% loss due to soil handling techniques.

Scale drawings and cross-sections of reclaimed pit conditions attached.

Description of surface water bodies in the reclaimed pit:

Design: _____

Intended use: _____

Water elevation at full supply level: _____

Slope of land one metre above full supply level: _____

Slope of land one metre below full supply level: _____

Signature and title of person who developed Activities Plan: _____

9.3 Security Estimate Checklist and Form

- The area of land (in acres) secured at \$250/acre
- Calculation details for full-cost security on the remainder of the disturbed land
- The area (in acres or hectares) covered by the full-cost security above and the average cost per acre or hectare of the full-cost security
- Proposal for the amount of security (total of \$250/acre security plus full-cost security)
- Proposal for the form of security to be provided
 - Signature and title of person submitting the security estimate

Security Estimate (Schedule 3)

Acres of land certified at \$250/acre: _____ Acres x \$250 = _____ (a)

Detailed full-cost security calculation attached Total full-cost = _____ (b)

Area of land at full-cost _____ (hectares / acres) Cost/hectare or acre = _____

Total security to be provided ((a) + (b)): _____

Proposed method of payment: Letter of Credit Cash Other (explain) _____

Signature and title of person submitting estimate: _____

9.4 Five-Year Report Checklist and Form

The report is due five-years after the date of the registration and every five years afterwards until the date of submission of the Final Reclamation Report or until the entire pit has been certified, whichever comes first.

- The registration number – make sure it is for the correct pit
- The legal location of the pit – include access roads, stockpiles sites and all other locations where infrastructure is present
- Total area of pit – all lands that have been disturbed by pit activities over the life of the pit (including lands disturbed by a previous operator whom transferred the registration to you)
- Active area – sum of the areas of the pit where aggregate is being extracted or processed, stockpiles are placed and infrastructure is located
- Reclaimed area – the area of a pit where the landscape has been re-established, the topsoil has been replaced and vegetation has been established, but does not include any certified area
- Certified area - the area of a pit that is the subject of a reclamation certificate
- Check to ensure that the values reported make sense in this report (e.g., Total Area = active + reclaimed + certified) and when compared to the previous report
- Scale drawing of pit attached
- Date pit size measured – must be less than 60 days prior to the report date
- Date scale drawing made – must be less than 60 days prior to the report date
 - Signature and title of person submitting the form

Five-Year Report (Schedule 4, Part 1)

Pit Registration Number: _____ Date: _____

Name of registration holder: _____

Address: _____

Phone: _____ Facsimile: _____

e-mail: _____

Pit Location Municipal Address or LSD-Sec-Twp-Rge-Mer

Pit size:

Total area (hectares / acres): _____

Active area (hectares / acres): _____

Reclaimed area (hectares / acres): _____

Certified area (hectares / acres): _____

Scale drawing of pit attached

Date pit size measured: _____

Date drawing made: _____

Signature and title of person submitting form: _____

9.5 Final Report Checklist and Form

The report is due no later than 3 years after the entire pit has been revegetated. The report does not need to be sent in if the entire site has received a reclamation certificate.

- The registration number – make sure it is for the correct pit
- The legal location of the pit – include access roads, stockpiles sites and all other locations where infrastructure is present
- The registered land owner's information – include all the names on each title
- Total area of the pit - all lands that have been disturbed by pit activities over the life of the pit (including lands disturbed by a previous operator whom transferred the registration to you)
- Scale and cross-section drawings of reclaimed pit
- Written acknowledgement of all registered landowners that they received the report
- Signature and title of person submitting the form

Final Reclamation Report (Schedule 4, Part 2)

Pit registration number: _____ Date: _____

Name of registration holder: _____

Address: _____

Phone: _____ Facsimile: _____

e-mail: _____

Pit Location Municipal Address or LSD-Sec-Twp-Rge-Mer	Registered Owners Name, Address and Phone Number

Pit size:

Total area (hectares / acres): _____

Scale and cross-section drawings of reclaimed pit attached

Written acknowledgement of all registered landowners that they received this report attached

Signature and title of person submitting form: _____