

Code of Practice for Pits

September 1, 2004

*(made under the Environmental Protection and Enhancement Act,
RSA 2000, cE-12, as amended
and Conservation and Reclamation Regulation (AR 115/93),
as amended)*

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ALBERTA ENVIRONMENT

CODE OF PRACTICE FOR PITS [made under the *Environmental Protection and Enhancement Act*, RSA 2000, c.E-12, as amended and *Conservation and Reclamation Regulation* (AR 115/93), as amended]

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PART 1: DEFINITIONS

Section 1.1: Definitions

- 1.1.1 All definitions in the *Environmental Protection and Enhancement Act* and the regulations under the Act apply except where expressly defined in this Code of Practice.
- 1.1.2 In this Code of Practice:
- (a) **"Act"** means the *Environmental Protection and Enhancement Act*, RSA 2000, c.E-12, as amended from time to time;
 - (b) **"active area"** means all areas of a pit, measured in acres or hectares, from which topsoil has been salvaged, or on which topsoil is stockpiled, but does not include any reclaimed area or certified area;
 - (c) **"Activities Plan"** means the plan, for carrying out activity at a pit, that has been authorized in writing by the Director;
 - (d) **"activity at a pit"** means the construction, operation or reclamation of a pit;
 - (e) **"aggregate"** means any sand, gravel, clay, or marl that is excavated from a pit, whether in a processed or unprocessed form, but does not include reject;
 - (f) **"certified area"** means the area of a pit, measured in acres or hectares, that is the subject of a reclamation certificate;
 - (g) **"this Code of Practice"** means the *Code of Practice for Pits*, as amended or replaced from time to time;
 - (h) **"discharge point"** means the location outside of the pit where pit water is released, as designated in the Activities Plan;
 - (i) **"grab"**, when referring to a sample, means an individual sample collected in less than 30 minutes and which is representative of the substance collected;
 - (j) **"overburden"** means soil or geological material at the pit, but does not include:

- (i) topsoil,
 - (ii) subsoil,
 - (iii) aggregate, or
 - (iv) reject;
- (k) **"parcel"** means the whole of the areas of land described in a certificate of title or described in a certificate of title by reference to a plan filed or registered in a land titles office;
- (l) **"pit"** means an opening or excavation in or working of the surface or subsurface for the purpose of removing any sand, gravel, clay, or marl, where the area of the pit and any associated infrastructure, including stockpiles, connected with the pit, is, or at any time was, greater than or equal to 5 hectares (12.5 acres), but does not include:
- (i) a borrow excavation,
 - (ii) a pit on public land,
 - (iii) a pit, or a portion of a pit, where the surface or subsurface of the land has not been disturbed by pit operations since August 15, 1978, or
 - (iv) a pit, or a portion of a pit, on which a waste management facility is operating or operated pursuant to a valid approval or registration under the Act;
- (m) **"pit face"** means any slope created by the excavation of overburden, aggregate or reject at a pit;
- (n) **"pit water"** means any water that:
- (i) accumulates in a pit,
 - (ii) is extracted from or below the pit, or
 - (iii) is used at the pit
- but does not include domestic wastewater;
- (o) **"reclaimed area"** means the area of a pit, measured in acres or hectares, where the landscape has been re-established, the

topsoil has been replaced and vegetation has been established, but does not include any certified area;

- (p) **"reject"** means aggregate that is expected to be unsuitable for use as a product, or for blending with other aggregate to form a product, and is therefore expected to be used for reclamation of the pit;
- (q) **"salvage"** means to collect topsoil or subsoil from a pit in a manner that retains the original quality and quantity of the topsoil or subsoil for reclamation purposes;
- (r) **"slope"** means the ratio of the horizontal run to the vertical rise measured in the same units;
- (s) **"stockpile"** means a pile of topsoil, subsoil, overburden, aggregate, reject, or other material, that is located at a pit;
- (t) **"subsoil"** means the layer of soil at the pit directly below the topsoil, to a maximum depth of 1.2 metres below the topsoil surface, that consists of the B and C horizons as defined in *The System of Soil Classification for Canada*, published by Agriculture and Agri-Food Canada, 1998, Publication 1646, 3rd edition, as amended or replaced from time to time;
- (u) **"surface water body"** means any surface location where water flows or is present, whether or not the flow or the presence of water is continuous, intermittent or occurs only during a flood, and includes but is not limited to wetlands;
- (v) **"topsoil"** means the uppermost layers of soil at the pit that consist of:
 - (i) all of the L, F, H, and A horizons, and
 - (ii) the O horizon to a maximum depth of 40 centimetresas the horizons are defined in *The System of Soil Classification for Canada*, published by Agriculture and Agri-Food Canada, 1998, Publication 1646, 3rd edition, as amended or replaced from time to time;
- (w) **"total area"** means the sum of the active area, reclaimed area, and certified area;
- (x) **"waste"** means any solid or liquid material or product or combination of them

- (i) that is intended to be treated or disposed of, or
 - (ii) that is intended to be stored and then treated or disposed of; and
- (y) **"woody debris"** means any portions of live or dead trees or shrubs, including but not limited to roots, trunks, and branches.

PART 2: GENERAL

- 2.1.1 Any person who carries out an activity at a pit must do so in accordance with this Code of Practice.
- 2.1.2 Any conflict between the registration application and the terms and conditions of this Code of Practice shall be resolved in favour of this Code of Practice.
- 2.1.3 The terms and conditions of this Code of Practice do not affect any rights or obligations created under any other authorization issued by the Department.
- 2.1.4 The terms and conditions of this Code of Practice are severable. If any term or condition of this Code of Practice or the application of any term or condition is held invalid, the application of such term or condition to the other circumstances and to the remainder of this Code of Practice shall not be affected by that invalidity.
- 2.1.5 If the registration holder monitors for any substances or parameters which are the subject of limits in this Code of Practice more frequently than is required, using procedures authorized in this Code of Practice, then the registration holder shall provide the results of such monitoring as an addendum to the next report required by this Code of Practice.
- 2.1.6 The registration holder shall immediately notify the Director in writing if any of the following events occurs:
- (a) the registration holder is served with a petition into bankruptcy;
 - (b) the registration holder files an assignment in bankruptcy or Notice of Intent to make a proposal;
 - (c) a receiver or receiver-manager is appointed;
 - (d) an application for protection from creditors is filed for the benefit of the registration holder under any creditor protection legislation; or

- (e) any of the assets, which are the subject matter of this Code of Practice, are seized for any reason.

2.1.7 With respect to any water sampling required pursuant to this Code of Practice, all samples shall be:

- (a) collected;
- (b) preserved;
- (c) stored;
- (d) handled; and
- (e) analyzed

in accordance with:

- (i) the *Standard Methods for the Examination of Water and Wastewater*, 20th edition, published by the American Water Works Association, 1998, as amended or replaced from time to time, and
- (ii) the *Methods Manual for Chemical Analysis of Water and Wastes*, published by Alberta Environment, 1996, as amended or replaced from time to time.

PART 3: REGISTRATION/ADMINISTRATION REQUIREMENTS

Section 3.1: Registration – Activities Plan

- 3.1.1 No person shall commence an activity at a pit unless a registration has been obtained for the activity.
- 3.1.2 An application for registration shall contain, at a minimum:
 - (a) all of the information specified in Schedule 1; and
 - (b) a proposed Activities Plan.
- 3.1.3 The proposed Activities Plan shall, at a minimum include all the information specified in Schedule 2.

Section 3.2: Written Consent of Registered Owners

- 3.2.1 No person shall commence or continue an activity at a pit unless the written consent of all current registered owners of the parcel or parcels on which the pit is located has been obtained for the conduct of an activity at the pit.

Section 3.3: Security

- 3.2.2 Unless exempted by the Act or the *Conservation and Reclamation Regulation*, as amended from time to time, no person shall commence or continue an activity at a pit unless the full amount of security for that pit has been provided to the Director, as authorized in writing by the Director.
- 3.3.2 Unless exempted by the Act or the *Conservation and Reclamation Regulation*, as amended from time to time, the registration holder shall provide new security no later than 5 years after the date of the most recent authorization in writing of the security by the Director.
- 3.3.3 Prior to payment of security pursuant to 3.3.1 or 3.3.2, a written security estimate shall be submitted to the Director.
- 3.3.4 The written security estimate required in 3.3.3 shall contain, at a minimum, all of the information specified in Schedule 3.

PART 4: OPERATIONAL REQUIREMENTS

Section 4.1: Activities Plan

- 4.1.1 No person shall conduct any activity at a pit except in accordance with the most recent Activities Plan.
- 4.1.2 Any proposed change to the information in the components of the Activities Plan set out in Schedule 2, Part 2:
- (a) must be authorized in writing by the Director; and
 - (b) is, upon written authorization of the Director, adopted as part of the most recent Activities Plan.
- 4.1.3 Upon request of the Director, the registration holder shall provide to the Director a proposed update of the Activities Plan.
- 4.1.4 The proposed update of the Activities Plan in 4.1.3:

- (a) shall be provided to the Director no later than 30 days after the Director's request; and
 - (b) shall contain all of the information specified in Schedule 2.
- 4.1.5 The update of the Activities Plan, as authorized in writing by the Director, is deemed to be the most recent Activities Plan.

Section 4.2: Pit Water Monitoring Requirements

- 4.2.1 No person shall release or permit the release of any pit water outside the pit, unless:
- (a) the pit water is monitored as specified in Table 4-1;
 - (b) the pit water is analysed for the parameters specified in Table 4-1; and
 - (c) the quality of any of the pit water that is released at the discharge point meets all of the limits specified in Table 4-1 at all times.
- 4.2.2 The registration holder shall record the results of the analysis required in 4.2.1(b).

Table 4-1 - Release Limits and Monitoring Requirements for Pit Water

Parameter	Release Limit	Sample Type	Monitoring Frequency	Monitoring Location
Total Suspended Solids	100 milligrams per litre	Grab sample	Weekly during release	Discharge point
pH	6.0 to 9.5 units	Grab sample	Weekly during release	Discharge point
Hydrocarbons	No visible sheen	Visual observation	Daily during release	Discharge point

- 4.2.3 Upon request of the Director or an inspector, any person shall:
- (a) obtain samples of pit water;
 - (b) conduct the analyses as requested by the Director or inspector;
and
 - (c) provide results of analyses conducted on the samples to the Director or inspector.

PART 5: CONSERVATION AND RECLAMATION REQUIREMENTS

Section 5.1: Soil Conservation Requirements

5.1.1 No person shall:

- (a) remove overburden;
- (b) extract aggregate or reject;
- (c) process aggregate or reject;
- (d) place structures or equipment; or
- (e) construct a road

at a pit unless all topsoil has been salvaged from the area where the removal, extraction, processing, placement, or construction will occur in accordance with the most recent Activities Plan authorized in writing by the Director.

5.1.2 No person shall:

- (a) remove overburden; or
- (b) extract aggregate or reject

at a pit unless all subsoil has been salvaged from the area where the removal or extraction will occur in accordance with the most recent Activities Plan authorized in writing by the Director.

5.1.3 No person shall use any topsoil that:

- (a) has been salvaged from a pit; and

- (b) has been designated in the most recent Activities Plan authorized in writing by the Director for use in reclamation of that pit

for any purpose other than the reclamation of the pit from which that topsoil was salvaged.

5.1.4 No person shall stockpile any material at a pit, unless the material:

- (a) where it is topsoil, is stockpiled on topsoil;
- (b) where it is subsoil, is stockpiled on an area from which all topsoil has been salvaged;
- (c) where it is overburden, aggregate, reject, or other material, is stockpiled on an area from which all:
 - (i) topsoil, and
 - (ii) subsoilhave been salvaged;
- (d) where it is topsoil, subsoil, or overburden, is stockpiled a horizontal distance greater than 3 metres from any stockpile; and
- (e) is stockpiled a horizontal distance greater than 5 metres from all pit faces.

5.1.5 The requirement in 5.1.4(d) does not apply where the stockpiles are composed of the same material.

Section 5.2: Reclamation Requirements

5.2.1 No person shall bury at any pit any:

- (a) waste; or
- (b) woody debris.

- 5.2.2 No person shall use any material other than topsoil, subsoil, overburden, or reject excavated from a pit for reclamation of that pit:
- (a) except in accordance with the most recent Activities Plan authorized in writing by the Director; and
 - (b) unless the written consent of all current registered owners of the parcel or parcels on which the material will be used has been obtained for the use of the material for reclamation at the pit.
- 5.2.3 The registration holder shall record the location, quantity, and depth of the materials described in 5.2.2.
- 5.2.4 No person shall leave any of the following in any replaced topsoil:
- (a) rocks;
 - (b) stones;
 - (c) woody debris; or
 - (d) other debris
- that interferes with the proposed land use for the reclaimed area, as set out in the most recent Activities Plan, as authorized in writing by the Director.
- 5.2.5 Subject to 5.2.6, no person shall construct any reclaimed slope within the pit to a slope steeper than 3:1.
- 5.2.6 The prohibition in 5.2.5 does not apply to the portion of a slope that is below the elevation of the water in a surface water body, when the surface water body is filled to its design capacity.
- 5.2.7 No person shall replace at the pit any:
- (a) subsoil, unless the subsoil is replaced in accordance with the most recent Activities Plan authorized in writing by the Director; or
 - (b) topsoil, unless the topsoil is replaced in accordance with the most recent Activities Plan authorized in writing by the Director.
- 5.2.8 No person shall revegetate any reclaimed pit area unless all current registered owners of the parcel or parcels on which the pit is located has

or have been consulted in writing about the proposed revegetation seed mixture or other proposed form of revegetation.

PART 6: REPORTING REQUIREMENTS

Contravention Report

6.1.1 In addition to any other reporting required pursuant to this Code of Practice, the Act or the regulations under the Act, any person carrying out an activity at a pit shall immediately report any contravention of this Code of Practice to:

- (a) the registration holder; and
- (b) the Director:
 - (i) by telephone at (780) 422-4505, or
 - (ii) by a method:
 - (A) in compliance with the release reporting provisions of the Act and the regulations; or
 - (B) authorized in writing by the Director.

6.1.2 In addition to the immediate report under 6.1.1, the registration holder shall provide a report to the Director:

- (a) in writing; or
- (b) by a method:
 - (i) in compliance with the release reporting provisions of the Act and the regulations, or
 - (ii) authorized in writing by the Director

within 7 calendar days of the reporting of the contravention, or within another time period specified in writing by the Director, unless the requirement for the report is waived by the Director in writing.

6.1.3 The report required under 6.1.2 shall contain, at a minimum, the following information:

- (a) a description of the contravention;
- (b) the date of the contravention;

- (c) the legal land description of the location of the contravention;
- (d) an explanation as to why the contravention occurred;
- (e) the name of all current registered owners of the parcel on which the contravention occurred;
- (f) a summary of all preventive measures and actions that were taken prior to the contravention;
- (g) a summary of all measures and actions that were taken to mitigate any effects of the contravention;
- (h) a summary of all measures that will be taken to address the remaining adverse effects related to the contravention;
- (i) the registration number issued by the Department for the pit, and the name of the person who held the registration at the time the contravention occurred;
- (j) the names, addresses, phone numbers, and responsibilities of all persons operating the pit at the time the contravention occurred;
- (k) the names, addresses, phone numbers, and responsibilities of all persons who had charge, management or control of the pit at the time that the contravention occurred;
- (l) a summary of proposed measures that will prevent future contraventions including a schedule of implementation for these measures;
- (m) any information that was maintained or recorded under this Code of Practice, as a result of the incident; and
- (n) any other information required by the Director in writing.

Five-Year Report

6.1.4 In addition to any other reporting requirements pursuant to this Code of Practice, the Act or the regulations, the registration holder shall provide a written report to the Director:

- (a) no later than 5 years after the date of the registration; and
- (b) every 5 years thereafter until:

- (i) a written final reclamation report is provided to the Director under 6.1.7, or
- (ii) a reclamation certificate has been obtained for the entire pit.

6.1.5 The written report required in 6.1.4:

- (a) shall contain, at a minimum, all of the information specified in Schedule 4, Part 1; and
- (b) shall reflect the status of the pit no more than 60 calendar days prior to the submission of the written report.

6.1.6 No person shall commence or continue an activity at a pit after the applicable date specified in 6.1.4 unless the applicable written report in 6.1.4 has been submitted to the Director.

Final Reclamation Report

6.1.7 A final reclamation report shall be provided to the Director no later than 3 years after the entire pit has been revegetated.

6.1.8 The requirement in 6.1.7 does not apply if a reclamation certificate has been obtained for the entire pit.

6.1.9 The final reclamation report required in 6.1.7 shall contain, at a minimum, all of the information specified in Schedule 4, Part 2.

Providing Information on Request

6.1.10 Any person who is required to establish or record any information pursuant to this Code of Practice shall, upon request by an inspector or the Director, provide the information requested within 7 days or any other time period specified by the inspector or the Director.

PART 7: RECORD KEEPING REQUIREMENTS

7.1.1 The registration holder shall establish an operating record for the pit.

7.1.2 The operating record in 7.1.1 shall contain, at a minimum, all of the information specified in Schedule 5.

7.1.3 Any records that are required by this Code of Practice shall be retained for a minimum of 5 years from the date of the final reclamation certificate issued for that pit.

PART 8: Code of Practice Administration

- 8.1.1 This Code of Practice will be reviewed as changes in technological or other standards warrant.

SCHEDULE 1

REGISTRATION APPLICATIONS

Pursuant to 3.1.2 and 3.1.3 of this Code of Practice, all of the following information shall be provided to the Director:

- (a) The name of the applicant for a registration, and their address, phone number, facsimile number, and e-mail address;
- (b) The company name, if any, and the name, job title, address, phone number, facsimile number, e-mail address, and signature of the person who submitted the registration application;
- (c) The name, job title, address, phone number, facsimile number, and e-mail address of the person designated by the applicant as the primary contact for the pit;
- (d) The municipal address, if one exists, and legal description of the parcel or parcels on which the pit is or will be located;
- (e) The names, addresses, and phone numbers of all current registered owners of the parcel or parcels on which the pit is or will be located; and
- (f) The names, addresses, and phone numbers of the current occupant or occupants of the parcel or parcels on which the pit is or will be located.

In consideration of the information required above, and the information required in an Activities Plan, the Director waives the requirements of subsection 3(1)(a) through (o) of the *Approvals and Registrations Procedure Regulation*, A.R. 113/93, as amended from time to time, for a registration application under this Code of Practice.

SCHEDULE 2

ACTIVITIES PLAN

The Activities Plan must cover the expected life of the pit, and must meet the objective of equivalent land capability specified in the *Conservation and Reclamation Regulation*, A.R. 115/93, as amended from time to time.

Pursuant to 3.1.3 and 4.1.4(b) of this Code of Practice, all of the information in Part 1 and Part 2 shall be provided to the Director.

Part 1

- (a) A determination of whether sand, gravel, clay, or marl, or any combination of them, will be removed;
- (b) The current size of the pit, measured in acres or hectares;
- (c) The average thickness of each of the topsoil, subsoil, overburden, and aggregate at the pit prior to excavation;
- (d) The texture or textures of the topsoil at the pit;
- (e) A description of techniques that will be used to prevent wind and water erosion, and to limit the movement of dust from the pit;
- (f) A description of the planned or current involvement of the applicant for a registration or the registration holder, as the case may be, in any local or regional air monitoring initiatives, including the name of the initiative and the form of participation;
- (g) A description of soil conservation and reclamation techniques that will be employed in any part of the pit where no activity will take place for a period of 2 years or more;
- (h) One or more scale drawings which describe existing pit site conditions and the proposed sequence of pit operations, including but not limited to:
 - (i) property boundaries,
 - (ii) land ownership,
 - (iii) current pit dimensions,
 - (iv) area disturbed to date,
 - (v) areas disturbed by activity at the pit prior to August 15, 1978,

- (vi) current drainage,
 - (vii) current land use,
 - (viii) existing infrastructure including but not limited to access roads and improvements,
 - (ix) existing surface water bodies,
 - (x) proposed infrastructure including but not limited to access roads and improvements,
 - (xi) proposed sequence of activity at the pit,
 - (xii) proposed surface water bodies, and
 - (xiii) any other existing features which will be affected by activity at the pit;
- (i) Cross-section scale drawings of the existing pit site conditions which show the whole pit in at least two directions, and include:
- (i) slopes,
 - (ii) topsoil depth,
 - (iii) subsoil depth,
 - (iv) overburden depth,
 - (v) aggregate depth, and
 - (vi) any known depth to groundwater.

Part 2

- (a) The maximum planned size of the pit, measured in acres or hectares;
- (b) The depth to groundwater encountered in any test holes;
- (c) A determination of whether the activities at the pit will include:
 - (i) wet pit excavation,
 - (ii) concrete production,
 - (iii) mixing of salt with aggregate,
 - (iv) mixing of asphalt with aggregate,
 - (v) spraying truck box liners with fluids containing hydrocarbons,
 - (vi) aggregate washing, or
 - (vii) use of materials other than topsoil, subsoil, overburden, or reject for reclamation of the pit;
- (d) A description of the mitigative measures that will be used to prevent any adverse effects resulting from the activities in (c);
- (e) A description of the proposed land uses for the reclaimed pit, and the percentage of the reclaimed pit area covered by each proposed land use;
- (f) A description of the conditions that would make the release of pit water necessary, and the techniques that will be used to release pit water, including a description of any discharge points from which pit water will be released;
- (g) The average thickness, measured in centimetres, at which topsoil and subsoil will each be replaced;
- (h) One or more scale drawings which describe the proposed site conditions after reclamation including but not limited to:
 - (i) property boundaries,
 - (ii) final reclaimed pit dimensions,
 - (iii) drainage,
 - (iv) land use,

- (v) structures, equipment, and roads that will remain, and
- (vi) surface water bodies;
- (i) Cross-section scale drawings of the proposed site conditions after reclamation which show the whole reclaimed pit in at least two directions, and include:
 - (i) slopes,
 - (ii) topsoil depth,
 - (iii) subsoil depth,
 - (iv) overburden depth, and
 - (v) any known depth to groundwater;
- (j) For any surface water body in the reclaimed pit, a description of the:
 - (i) design,
 - (ii) intended use,
 - (iii) elevation of the water in the surface water body when the surface water body is filled to its design capacity (full supply level), and
 - (iv) slope of the land one (1) metre above and one (1) metre below the full supply level.

SCHEDULE 3

SECURITY ESTIMATE

Pursuant to 3.3.3 and 3.3.4 of this Code of Practice, all of the following information shall be provided to the Director:

- (a) the area (expressed in acres) and location of lands disturbed pursuant to an approval issued under the *Land Surface Conservation and Reclamation Act* for which security will be submitted at \$250/acre;
- (b) a detailed calculation of security that would represent the maximum conservation and reclamation cost incurred by a third party to reclaim the disturbed portions of the pit, except those described by (a), to equivalent land capability at any time within the next 5 years;
- (c) the area (expressed in hectares or acres) of land included in the estimate in (b) and a calculation of the average cost per hectare or acre of security in the estimate; and
- (d) a proposal for the total amount ((a) plus (b)) and form of security to be paid.

SCHEDULE 4

REPORTING

Part 1 – Five Year Report

Pursuant to 6.1.4 and 6.1.5 of this Code of Practice, all of the following shall be provided to the Director:

- (a) the name of the registration holder, and their address, phone number, facsimile number, and e-mail address;
- (b) the municipal address, if one exists, and the legal description of the parcel or parcels on which the pit is located;
- (c) the current size of the pit, measured in acres or hectares, including:
 - (i) the total area,
 - (ii) the active area,
 - (iii) the reclaimed area, and
 - (iv) the certified area;
- (d) a scale drawing of the pit that shows the location of:
 - (i) any access road(s),
 - (ii) any structures or equipment,
 - (iii) any aggregate extraction or processing area(s),
 - (iv) any stockpile areas,
 - (v) any surface water bodies, and
 - (vi) the legal boundaries of the parcel or parcels of land on which the pit is located;
- (e) the dates:
 - (i) the measurements in (c), and
 - (ii) the drawing in (d)were made.

Part 2 – Final Report

Pursuant to 6.1.7 and 6.1.9 of this Code of Practice, all of the following shall be provided to the Director:

- (a) the name of the registration holder, and their address, phone number, facsimile number, and e-mail address;
- (b) the municipal address, if one exists, and the legal description of the parcel or parcels on which the pit is located;
- (c) the area, measured in acres or hectares, of the reclaimed pit;
- (d) one or more scale drawings which describe the reclaimed site conditions, including but not limited to:
 - (i) property boundaries,
 - (ii) final reclaimed pit dimensions,
 - (iii) slopes,
 - (iv) drainage,
 - (v) vegetation type,
 - (vi) land use,
 - (vii) structures, equipment and roads which remain,
 - (viii) types, locations, and depths of any materials other than topsoil, subsoil, overburden, or reject used in reclamation of the pit, and
 - (ix) surface water bodies;
- (e) cross-section scale drawings of the reclaimed site conditions which show the whole pit in at least two directions, and include:
 - (i) slopes,
 - (ii) topsoil depth,
 - (iii) subsoil depth,
 - (iv) overburden depth, and

- (v) depth to groundwater, if known; and
- (f) written acknowledgement of the receipt of the final reclamation report referred to in this Schedule by the current registered owners of the parcel or parcels on which the pit is located.

SCHEDULE 5

OPERATING RECORD

The following must be included in the Operating Record specified in 7.1.1 and 7.1.2 of this Code of Practice:

- (a) a copy of the written consent pursuant to 3.2.1;
- (b) a copy of the results of analyses pursuant to 4.2.2;
- (c) a copy of each of the written consents pursuant to 5.2.2(b);
- (d) a copy of each of the written consultations pursuant to 5.2.8; and
- (e) a copy of any permits, licenses, or authorizations relative to the activity at the pit.