



**CODE OF PRACTICE FOR
FORAGE DRYING FACILITIES**

2006

*developed under the Environmental Protection and Enhancement
Act*

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ALBERTA ENVIRONMENT

CODE OF PRACTICE FOR FORAGE DRYING FACILITIES
**(made under the *Environmental Protection and Enhancement Act*,
RSA 2000, c.E-12, as amended and *Substance Release Regulation*
(AR 124/93), as amended)**

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Schedule 1 Registration Information

PART 1: DEFINITIONS

1.1.1 All definitions in the 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*, R.S.A. 2000, c.E-12, as amended;
- (b) **"air contaminant"** means any solid, liquid or gas or combination of any of them in the atmosphere resulting directly or indirectly from activities at a forage drying facility;
- (c) **"day"** means any consecutive 24-hour sampling period;
- (d) **"existing forage drying facility"** means any forage drying facility that was in operation before November 17, 2006;
- (e) **"facility developed area"** means the areas of the forage drying facility used for the storage, processing, or handling of raw material, intermediate product, by-product, finished product, process chemicals, or waste material;
- (f) **"forage drying facility"** means the lands known and described in the application for registration, and all buildings, structures, process equipment and pollution abatement equipment and storage facilities used in and for or associated with a plant that:
 - (i) removes water, in a gaseous or liquid state, from forage crops including, but not limited to, alfalfa, brome, timothy, clovers, fescues or any combination of those crops, and
 - (ii) conducts fossil fuelled or wood fuelled thermal drying prior to the cube or pellet formation stage;
- (g) **"fugitive emissions"** means air contaminant emissions to the atmosphere originating from a forage drying facility source other than a flue or stack but does not include

sources which may occur due to breaks or ruptures in process equipment;

- (h) **"grab"** when referring to a sample, means an individual sample collected in less than 30 minutes and which is representative of the substance sampled;
- (i) **"industrial runoff"** means surface water resulting from precipitation that falls on or traverses the facility developed area;
- (j) **"industrial wastewater"** means the composite of liquid wastes and water-carried wastes, any portion of which results directly from an industrial process carried on at a forage drying facility;
- (k) **"ISO 17025"** means the international standard, developed and published by International Organization for Standardization (ISO), specifying the management and technical requirements for laboratories;
- (l) **"local environmental authority"** means the Department, in the Province of Alberta, or the agency that has the equivalent responsibilities for any jurisdiction outside the Province;
- (m) **"month"** means calendar month;
- (n) **"new forage drying facility"** means any forage drying facility for which construction commences on or after November 17, 2006;
- (o) **"PM"** means particulate matter;
- (p) **"PM_{2.5}"** means particulate matter that is less than 2.5 micrometres in diameter;
- (q) **"regulations"** mean the regulations under the Act;
- (r) **"shutdown"** means the time after the cutoff of feed;
- (s) **"start-up"** means the initial introduction of material, or electrical or thermal energy, with the simultaneous

production of products for which the forage drying facility was designed;

- (t) **"this Code of Practice"** means the *Code of Practice for Forage Drying Facilities*, published by Alberta Environment, as amended;
- (u) **"week"** means any consecutive 7-day period; and
- (v) **"wood waste"** means any discarded wooden material.

PART 2: GENERAL REQUIREMENTS

- 2.1.1 A registration holder who constructs, operates or reclaims a forage drying facility must do so in accordance with this Code of Practice.
- 2.1.2 Any conflict between the 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 or negate any other requirements under the Act, the regulations or any other applicable legislation.
- 2.1.4 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.
- 2.1.5 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 other circumstances and to the remainder of this Code of Practice shall not be affected by that invalidity.
- 2.1.6 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 reports required by this Code of Practice.
- 2.1.7 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.

SECTION 2.2: Analytical Requirements

2.2.1 With respect to any air monitoring required pursuant to this Code of Practice, the registration holder shall:

- (a) collect;
- (b) preserve;
- (c) store;
- (d) handle; and
- (e) analyze,

all samples in accordance with

- (i) for air monitoring:
 - (A) the *Alberta Stack Sampling Code REF. 89* (1995), published by Alberta Environment, as amended;
 - (B) the *Methods Manual for Chemical Analysis of Atmospheric Pollutants AEC V93-M1*, (1993), published by Alberta Environment, as amended;

- (C) the *Air Monitoring Directive* (1989), published by Alberta Environment, as amended or replaced; or
 - (D) a method authorized in writing by the Director; and
- (ii) for water monitoring:
- (A) the *Standard Methods for the Examination of Water and Wastewater* (2005), published by the American Public Health Association, the American Waterworks Association and the Water Environment Federation, as amended;
 - (B) the *Methods Manual for Chemical Analysis of Water and Wastes* (1996), published by the Alberta Research Council, as amended; or
 - (C) a method authorized in writing by the Director.

2.2.2 The registration holder shall analyze all samples that are required to be obtained by this Code of Practice in a laboratory accredited pursuant to ISO 17025 standard, as amended, for the specific parameter(s) to be analyzed, unless otherwise authorized in writing by the Director.

2.2.3 The registration holder shall comply with the terms and conditions of any written authorization issued by the Director under 2.2.2.

PART 3: REGISTRATION APPLICATION REQUIREMENTS

SECTION 3.1: Application for Registration

- 3.1.1 An application for registration of a proposed new forage drying facility shall contain at a minimum, the following information:
- (a) all information set out in Schedule 1; and
 - (b) any other information requested by the Director.

- 3.1.2 At least three (3) months prior to the installation of a new dryer that is equipped with a stack the registration holder shall:
- (a) conduct air quality modelling at the forage drying facility that:
 - (i) models particulate matter for all anticipated air emission sources at the forage drying facility;
 - (ii) is conducted in accordance with the *Alberta Air Quality Model Guidelines* (2003), published by Alberta Environment (Publication T/689), as amended; and
 - (b) submit to the Director a report containing, at a minimum:
 - (i) the results of the air quality modelling; and
 - (ii) a comparison of the modelling results with the PM_{2.5} ambient air quality limits in the *Alberta Ambient Air Quality Objectives*, published by Alberta Environment, as amended.
- 3.1.3 In addition to any reporting under this Code of Practice, the Act and the regulations, the registration holder shall inform the Director in writing within three (3) months after any change to the information submitted to the Director in an application respecting the forage drying facility.
- 3.1.4 The information submitted under 3.1.3 shall include, at a minimum, all of the following information:
- (a) a description of the change;
 - (b) a description of the change in emissions resulting from the change; and
 - (c) a description of pollution abatement equipment installed or to be installed as a result of the change.

PART 4: AIR REQUIREMENTS

SECTION 4.1: General Air Requirements

- 4.1.1 The registration holder shall not release any effluent streams to the atmosphere except as authorized in this Code of Practice.
- 4.1.2 The registration holder shall release effluent streams to the atmosphere only from the following sources as designated in the application:
- (a) hammer mill or equipment performing an equivalent function;
 - (b) bale shredder or equipment performing an equivalent function;
 - (c) dryer;
 - (d) kiln with a conveyor chain;
 - (e) boiler;
 - (f) meal bin;
 - (g) pellet cooler;
 - (h) natural gas fired heater;
 - (i) building ventilation fan exhaust; and
 - (j) the other specific sources identified and designated in the application.
- 4.1.3 The registration holder shall not release fugitive emissions or any substance from any source not specified in 4.1.2, that causes or may cause any of the following:
- (a) impairment, degradation or alteration of the quality of natural resources;
 - (b) material discomfort, harm or adverse effect of the well being or health of a person; or
 - (c) harm to property or to plant or animal life.

4.1.4 The registration holder shall:

- (a) record the following information on a monthly basis:
 - (i) total hours of operation of each piece of process equipment;
 - (ii) total hours of operation of each piece of pollution abatement equipment; and
 - (iii) total hours of shutdown and start-up; and
- (b) compile the information in (a) on a monthly basis.

4.1.5 The registration holder shall:

- (a) not operate the process equipment unless and until all the pollution abatement equipment associated with the process equipment is:
 - (i) fully operational; and
 - (ii) operating; and
- (b) for the purpose of (a)(ii), operate the pollution abatement equipment at least 97.5% of the time that the process equipment is operating, measured on a monthly basis.

4.1.6 Each dryer stack shall be equipped with a stack sampling port that complies with the *Alberta Stack Sampling Code*, (1995), published by Alberta Environment, as amended.

4.1.7 Within six (6) months after this Code of Practice comes into effect, or within six (6) months after the new forage drying facility commences operation, the registration holder shall implement a program with respect to the ongoing calibration of the monitoring systems and pollution abatement equipment in accordance with the following:

- (a) the *Air Monitoring Directive* (1989), published by Alberta Environment, as amended or replaced;
- (b) this Code of Practice; or

(c) the manufacturer's instructions.

4.1.8 The registration holder shall:

(a) monitor the temperature of each wood fuelled dryer on a continuous basis, at all times that the wood fuelled dryer is in operation, subject to 4.1.10; and

(b) continuously record the temperature monitored in subsection (a).

4.1.9 Subject to 4.1.10 and 4.1.11 the temperature of any wood fuelled dryer shall exceed 800°C for at least 90% of the time that the dryer is in operation each month.

4.1.10 For the purposes of 4.1.8 and 4.1.9:

(a) a wood fuelled dryer is not considered to be in operation during start-up and after shutdown; and

(b) start-up and shutdown periods shall last no more than one hour each in duration, and no more than two hours total in any 24-hour period.

4.1.11 Clauses 4.1.8 and 4.1.9 do not apply where:

(a) fossil fuel is used to operate the wood fuelled dryer; or

(b) non-treated wood waste is used to operate the wood fuelled dryer.

4.1.12 The registration holder shall comply with the following requirements regarding releases to the atmosphere of effluent streams:

(a) for releases from all sources at existing forage drying facilities except a dryer or a kiln with a conveyor chain:

(i) the requirements of section 4.2 until December 31, 2014, and

(ii) the requirements of section 4.3 on or after January 1, 2015;

- (b) for releases from each dryer and each kiln with a conveyor chain at existing forage drying facilities:
 - (i) the requirements of section 4.2 until December 31, 2014, and
 - (ii) the requirements of section 4.4 on or after January 1, 2015;
- (c) for releases from all sources at all new forage drying facilities:
 - (i) the requirements of section 4.3, and
 - (ii) the requirements of section 4.4.

4.1.13 The registration holder shall monitor releases from all dryers equipped with stacks at all forage drying facilities in accordance with section 4.5.

SECTION 4.2: Air Emission Limits for Existing Forage Drying Facilities, Effective Until December 31, 2014

4.2.1 Until December 31, 2014, a registration holder holding a registration for an existing forage drying facility shall comply with 4.2.2 through 4.2.5.

4.2.2 Each:

- (a) hammer mill or equipment performing an equivalent function;
- (b) bale shredder or equipment performing an equivalent function;
- (c) boiler;
- (d) meal bin;
- (e) pellet cooler;
- (f) natural gas fired heater;
- (g) building ventilation fan exhaust; and

- (h) the other specific sources identified and designated in the application

shall be:

- (i) designed,
- (ii) operated, and
- (iii) maintained

to release no more than:

- (A) 0.20g PM per kg of effluent in urban areas of populations greater than 50,000; or
- (B) 0.60g PM per kg of effluent in other urban areas, or rural areas

as the case may be.

4.2.3 The registration holder shall not exceed any of the following concentrations of particulate matter with respect to releases from each dryer and each kiln with a conveyor chain:

- (a) 0.20g PM per kg of effluent in urban areas of populations greater than 50,000; and
- (b) 0.60g PM per kg of effluent in:
 - (i) other urban areas, and
 - (ii) rural areas

as the case may be.

4.2.4 At all times during operation, visible emissions from each source shall not exceed an opacity of 40% averaged over a period of six consecutive minutes.

4.2.5 For the purposes of 4.2.4:

- (a) a dryer or kiln is not considered to be operating during start-up and after shutdown, and

- (b) start-up and shutdown periods shall last no more than half an hour each in duration, and no more than two hours total in any 24-hour period.

SECTION 4.3: Air Emission Limits for All Sources except Dryer and Kiln with a Conveyor Chain for Existing Forage Drying Facility Effective January 1, 2015, and in New Forage Drying Facilities Immediately

4.3.1 A registration holder shall comply with 4.3.2 through 4.3.4 in the following manner:

- (a) effective immediately at a new forage drying facility, and
- (b) effective January 1, 2015 at an existing forage drying facility, for all sources except a dryer or a kiln with a conveyor chain.

4.3.2 Each:

- (a) hammer mill or equipment performing an equivalent function;
- (b) bale shredder or equipment performing an equivalent function;
- (c) boiler;
- (d) meal bin;
- (e) pellet cooler;
- (f) natural gas fired heater;
- (g) building ventilation fan exhaust; and
- (h) the other specific sources identified and designated in the application, except a dryer or a kiln with a conveyor chain

shall be:

- (i) designed,
- (ii) operated, and

- (iii) maintained

to release no more than 0.05g PM per kg of effluent.

4.3.3 At all times during operation, the registration holder shall not exceed a visible emissions limit of 10%, averaged over a period of six consecutive minutes, for each:

- (a) hammer mill or equipment performing an equivalent function;
- (b) bale shredder or equipment performing an equivalent function;
- (c) boiler;
- (d) meal bin;
- (e) pellet cooler;
- (f) natural gas fired heater;
- (g) building ventilation fan effluent; and
- (h) the other specific sources identified and designated in the application except a dryer or a kiln with a conveyor chain.

4.3.4 For the purposes of 4.3.3:

- (a) a source listed in 4.3.3 is not considered to be in operation during start-up and after shutdown, and
- (b) start up and shutdown periods shall last no more than half an hour each in duration, and no more than two hours total in any 24-hour period.

SECTION 4.4: Air Emission Limits for Dryers and Kiln with a Conveyor Chain in Existing Forage Drying Facilities Effective January 1, 2015 and in New Forage Drying Facilities Immediately

4.4.1 A registration holder shall comply with 4.4.2 through 4.4.4:

- (a) effective January 1, 2015 for a dryer or kiln with a conveyor chain at an existing forage drying facility, and

- (b) effective immediately for a dryer or kiln with a conveyor chain at a new forage drying facility.

4.4.2 The registration holder shall not exceed the following particulate matter release limits:

- (a) 0.20g PM per kg of effluent in urban areas of population greater than 50,000; and
- (b) 0.50g PM per kg of effluent in:
 - (i) other urban areas, and
 - (ii) rural areas.

4.4.3 At all times during operation, the registration holder shall not exceed a visible emissions limit of 40% averaged over a period of six consecutive minutes, for each:

- (a) dryer, and
- (b) kiln with a conveyor chain.

4.4.4 For the purposes of 4.4.2 and 4.4.3:

- (a) the dryer or kiln with a conveyor chain is not considered to be in operation during start-up and after shutdown, and
- (b) start-up and shutdown periods shall last no more than half an hour each in duration, and no more than two hours total in any 24-hour period.

SECTION 4.5: Air Monitoring Requirements

4.5.1 The registration holder shall conduct the monitoring as set out in TABLE 4.5-A.

TABLE 4.5-A: Monitoring Requirements

Emission Source	Parameter	Frequency	Method of Monitoring	Sample Location
Dryer Stack	Particulate Matter	Once every three years	Manual Stack Survey	Stack

- 4.5.2 The registration holder shall notify the Director in writing, a minimum of two weeks prior to any manual stack survey required pursuant to 4.5.1.
- 4.5.3 The manual stack survey required in pursuant to 4.5.1 shall be conducted:
- (a) when the dryer is operating at no less than 80% of its capacity; and
 - (b) in accordance with the *Alberta Stack Sampling Code* (1995), published by Alberta Environment, as amended.

PART 5: WASTEWATER REQUIREMENTS

SECTION 5.1: Industrial Wastewater Requirements

- 5.1.1 The registration holder shall not release any industrial wastewater from the forage drying facility to the surrounding watershed.
- 5.1.2 All above ground storage tanks containing any process chemicals or industrial wastewater shall be:
- (a) constructed;
 - (b) operated; and
 - (c) maintained
- in accordance with *Secondary Containment for Above Ground Storage Tanks* (1997), published by Alberta Environmental Protection, as amended.
- 5.1.3 The registration holder shall not install any underground storage tanks.

SECTION 5.2: Industrial Runoff Requirements

- 5.2.1 The registration holder shall not release industrial runoff in a manner that may result in the industrial runoff entering any surface water within 500 metres of the forage drying facility.
- 5.2.2 At least once per month during the period of March 1 through October 30, the registration holder shall visually inspect all areas

of release on the perimeter of the facility developed area for any potential impacts of industrial runoff on the environment, including, but not limited to any flooding, erosion, discoloration of vegetation, visible sheen, floating material or debris.

- 5.2.3 After each visual inspection conducted in accordance with 5.2.2, the registration holder shall:
- (a) record and describe the location, size and type of impacts from industrial runoff;
 - (b) report any impacts of industrial runoff on the environment to the Director immediately upon discovery, including actions that will be taken to mitigate the impact;
 - (c) take actions to mitigate the impact; and
 - (d) retain the records of perimeter inspections of industrial runoff and all actions taken to address any potential impacts.

SECTION 5.3: Domestic Wastewater Operational Requirements

- 5.3.1 The registration holder shall release domestic wastewater generated at the facility developed area only to:
- (a) a private sewage disposal system that complies with the *Safety Codes Act* and its regulations, as amended, for treatment and release of domestic wastewater;
 - (b) a wastewater system that uses a wastewater lagoon that is the subject of a valid registration under the Act;
 - (c) a holding tank from which all domestic wastewater is transferred to a wastewater system that is the subject of a valid approval or registration under the Act; or
 - (d) a wastewater system that is the subject of a valid approval, or registration under the Act or a private sewage disposal system that complies with the *Safety Codes Act*, and its regulations, as amended, where the owner(s) of the wastewater system or the private sewage disposal system have provided prior written consent for the release.

- 5.3.2 The registration holder shall dispose of sludge produced by domestic wastewater management at the forage drying facility only at a facility that is the subject of a valid approval or registration under the Act to accept such waste.

PART 6: WASTE MANAGEMENT REQUIREMENTS

SECTION 6.1: General Waste Management

- 6.1.1 The registration holder shall dispose of all waste generated at the forage drying facility, including but not limited to ash from the operation of the dryer, only to:
- (a) a waste management facility that is the subject of a valid approval or registration under the Act to accept such waste; or
 - (b) a waste management facility located outside Alberta, approved by a local environmental authority outside of Alberta to accept such waste.

SECTION 6.2: Waste Management Record Keeping and Reporting Requirements

- 6.2.1 The registration holder shall:
- (a) record the following information:
 - (i) the volume of each waste disposed of during each month;
 - (ii) the method used to dispose of the waste; and
 - (iii) the name of the person responsible for conducting the disposal; and
 - (b) retain a record of the information recorded in accordance with (a).

PART 7: RECLAMATION REQUIREMENTS

- 7.1.1 Where the land surface has been disturbed during construction, expansion, modifications, or repair of the forage drying facility or

any portion of the forage drying facility, the registration holder shall reclaim the surface of land to equivalent land capability.

- 7.1.2 No person shall commence reclamation until that person has received written authorization from the Director for the reclamation.
- 7.1.3 Within six months after the forage drying facility permanently ceases operation, the registration holder shall submit a reclamation plan to the Director.
- 7.1.4 The reclamation plan shall contain, at a minimum, all of the following information:
 - (a) proposed plan for domestic wastewater discharge and sludge management prior to reclamation;
 - (b) a proposal for reclaiming all disturbed land to equivalent land capability, or a proposal for reuse of the site;
 - (c) the depth of topsoil at any wastewater lagoon prior to construction or, in the absence of that pre-construction depth, the depth of undisturbed topsoil on property adjacent to the site of any lagoon, unless reuse of the site is proposed;
 - (d) a description of the status of, and proposed measures to address the following matters on the facility developed area:
 - (i) the final use of the reclaimed areas;
 - (ii) the proposed depth of topsoil to be replaced;
 - (iii) the restoration of the original contours of the land;
 - (iv) erosion control;
 - (v) weed control; and
 - (vi) revegetation; and
 - (e) any other information required by the Director in writing.

- 7.1.5 The registration holder shall conduct reclamation in accordance with the reclamation plan, as authorized by the Director in writing.
- 7.1.6 Within one (1) year from the date of completion of reclamation, the registration holder shall submit a final reclamation report to the Director.
- 7.1.7 The final reclamation report required under 7.1.6 shall contain, at a minimum, all of the following information:
- (a) a statement of whether the site has achieved equivalent land capability;
 - (b) if the site has not achieved equivalent land capability, an explanation of the reason;
 - (c) confirmation of whether the topsoil was replaced in accordance with the reclamation plan;
 - (d) a description of the final land use;
 - (e) a description of the land contours of the site;
 - (f) a statement of whether the original contours of the site have been restored;
 - (g) if the original contours of the site have not been restored, an explanation of the reason;
 - (h) a description of steps taken to control erosion;
 - (i) a statement of the degree of success of the erosion control steps and further steps that will be taken;
 - (j) a list of species used for revegetation;
 - (k) a description of the weed control measures undertaken; and
 - (l) any other information required by the Director in writing.

PART 8: REPORTING REQUIREMENTS

Contravention Reporting

8.1.1 In addition to any other reporting required pursuant to this Code of Practice, the Act, or the regulations under the Act, the registration holder shall immediately report to the Director any contravention of this Code of Practice, either:

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

8.1.2 In addition to the immediate report in 8.1.1, 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 in the Act and the regulations, or
 - (ii) authorized in writing by the Director

within seven (7) calendar days of the discovery of the contravention, or within a time period specified in writing by the Director, unless the requirement for the report is waived by the Director.

8.1.3 The report required under 8.1.2 shall contain, at a minimum the following information:

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

- (d) the legal land description of the location of the contravention;
- (e) an explanation as to why 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 any remaining effects and potential effects related to the contravention;
- (i) the number of the registration issued under the Act for the forage drying facility, and the name of the person who held the registration at the time the contravention occurred;
- (j) the name, address, phone number and responsibilities of all persons operating the forage drying facility at the time the contravention occurred;
- (k) the name, address, phone number and responsibilities of all persons who had charge, management or control of the forage drying facility 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.

PART 9: RECORD KEEPING REQUIREMENTS

9.1.1 The registration holder shall:

- (a) record the following information:
 - (i) all records that are required to be created under this Code of Practice;
 - (ii) annual records for the following:
 - (A) the performance of air pollution abatement equipment;
 - (B) details of any modifications to the forage drying facility operations;
 - (C) a summary of the actions taken by the registration holder to minimize and reduce atmospheric emissions; and
 - (D) annual summary of the wood fuelled dryer temperature results;
 - (iii) a summary of the status and the results of any atmospheric emissions reduction reports and studies that the registration holder either participated in or conducted independently;
 - (iv) total hours of operation of the equipment on a monthly basis, including hours of shutdown and start-up;
 - (v) a description of all maintenance and repairs to pollution abatement equipment, including:
 - (A) the date of the maintenance;
 - (B) a description of the maintenance conducted;
 - (C) the name of person conducting the maintenance; and

- (D) the signature of the person conducting the maintenance; and
- (vi) all monitoring and measuring results required pursuant to this Code of Practice; and
- (b) keep the records in (a) available at the forage drying facility for five (5) years from the date the record is created.

9.1.2 The registration holder shall:

- (a) record the following information:
 - (i) applications submitted to Alberta Environment for a registration;
 - (ii) engineering plans and drawings for the forage drying facility, including but not limited to the design specification of the abatement equipment technology;
 - (iii) project reports;
 - (iv) construction documents, record drawings;
 - (v) all reports of inspections conducted by Alberta Environment;
 - (vi) all annual reports;
 - (vii) all registrations issued under the Act for the forage drying facility;
 - (viii) a copy of all written authorizations issued regarding the forage drying facility;
 - (ix) a copy of the reclamation plan required under 7.1.3 of this Code of Practice; and
 - (x) any correspondence sent to Alberta Environment; and

- (b) make the copies of the records in (a) available for the life of the forage drying facility.

9.1.3 The results and records in 9.1.1 shall contain, at a minimum, all of the following information:

- (a) the date, place and time of sampling or monitoring, whichever the case may be, and the name of the person collecting the sample;
- (b) date of analysis;
- (c) laboratory name and person responsible for performing analysis;
- (d) the analytical method used; and
- (e) the results of the analysis.

9.1.4 Upon request, the registration holder shall immediately provide any records, reports or data to the Director or an inspector.

PART 10: CODE OF PRACTICE ADMINISTRATION

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

SCHEDULE 1
Registration Information

Pursuant to 3.1.1(a) of this Code of Practice, all of the following information shall be provided to the Director unless otherwise specified in writing by the Director.

General Information Regarding the Forage Drying Facility

1. name of person (Company) that will construct, operate, reclaim the forage drying facility;
2. operating name;
3. mailing address;
4. phone number;
5. facsimile number;
6. email address;
7. facility name;
8. legal land description of forage drying facility location;
9. contact person;
10. if the forage drying facility previously had an approval under the Act, provide the number of the approval;
11. diagram showing the general layout of the facility including but not limited to:
 - (a) stack locations,
 - (b) water discharge locations, and
 - (c) groundwater monitoring wells if used;
12. date of proposed start for any new forage drying facility;
13. abatement equipment on each source;

14. design and/or manufacture specification for abatement technology;
15. emission sources:
 - (a) location of stacks,
 - (b) air flow rate,
 - (c) stack diameters,
 - (d) exit air velocity, and
 - (e) exit air temperature;
16. abatement equipment on each source;
17. design and/or specification for pollution abatement technology;
18. waste disposal mechanisms;
19. for a newly installed dryer the results of air quality models conducted in accordance with the *Alberta Air Quality Model Guidelines* (2003), published by Alberta Environment, (Publication T/689) as amended;

Dryer

20. design specifications;
21. fuel type; and

Domestic Wastewater

22. method of domestic wastewater collection, treatment and disposal

