

# LICENCE

Licence No. / Licence n° 2771

Issue Date / Date de délivrance May 25, 2007

In accordance with The Environment Act (C.C.S.M. c. E125) /  
Conformément à la Loi sur l'environnement (C.P.L.M. c. E125)

Pursuant to Section 11(1) / Conformément au Paragraphe 11(1)

**THIS LICENCE IS ISSUED TO : / CETTE LICENCE EST DONNÉE À :**

**MAYFAIR FARMS (PORTAGE) LTD. AND JAMOR FARMS LTD.;**  
**"the Licencee"**

for the construction and operation of the Development being an irrigation system in the Rural Municipality of Portage la Prairie, with two water intakes on the Assiniboine River, in accordance with the Proposal filed under The Environment Act dated May 26, 2006 and an addendum dated December 20, 2006, and subject to the following specifications, limits, terms and conditions:

### **GENERAL TERMS AND CONDITIONS**

This Section of the Licence contains requirements intended to provide guidance to the Licencee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

1. The Licencee shall collect and dispose of all used oil products and other regulated hazardous wastes generated by the machinery used in the construction and operation of the Development in accordance with applicable Manitoba Conservation and legislation requirements.
2. The Licencee shall revegetate areas disturbed by the construction of the Development with a mixture of native or introduced grasses or legumes. These areas shall be revegetated as quickly as possible following construction to prevent soil erosion and the establishment of noxious weeds. Native species shall be used to revegetate areas where native species existed prior to construction.
3. The Licencee shall:
  - (a) prepare "As Constructed" drawings for the Development and shall label the drawings "As Constructed"; and

**\*\*A COPY OF THE LICENCE MUST BE KEPT ON SITE AT THE DEVELOPMENT AT ALL TIMES\*\***

- (b) provide to the Director, within three months of the completion of construction of the Development, two sets of "As Constructed" drawings.

## **SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS**

### **Project Scope**

4. The Licencee shall, unless otherwise approved by the Director in writing, construct the water diversion and management works and irrigate the lands as described on Figure 1, attached to this Licence. Proposed amendments to this project must be submitted to the Director for approval with an accompanying discussion of the nature and purpose of the amendments.

### **Construction**

5. The Licencee shall, not less than two weeks prior to beginning construction of the Development, provide notification to the Environment Officer responsible for the administration of this Licence of the intended starting date of construction and the name of the contractor responsible for the construction.
6. The Licencee shall establish any fuel storage areas required for the construction and operation of the Development:
  - (a) a minimum distance of 100 metres from any waterbody; and
  - (b) in compliance with the requirements of *Manitoba Regulation 188/2001*, or any future amendment thereof, respecting *Storage and Handling of Petroleum Products and Allied Products*.
7. The Licencee shall, during construction and operation of the Development:
  - (a) immediately report any reportable spills to Manitoba Conservation's Accident Reporting Line at (204) 944-4888; and
  - (b) provide a follow-up report to the Director on a reportable environmental accident outlining the cause(s) and proposing corrective action to prevent reoccurrence.
8. The Licencee shall not remove, destroy or disturb species listed as rare, endangered, or of special concern, or their habitats. These species are listed in *Manitoba Regulation 25/98*, or any future amendment thereof, respecting *Threatened, Endangered and Extirpated Species* and in the federal Species at Risk Act.
9. The Licencee shall, during construction and operation of the Development, take all appropriate measures to prevent erosion and the deposition of sediment into the Assiniboine River.
10. The Licencee shall not undertake instream construction activities in connection with the Development between April 1 and June 30 of any year.

11. The Licencee shall not undertake instream construction activities in connection with the Development during periods of high streamflow.
12. The Licencee shall, during construction of water intake works in connection with the Development, minimize the extent of clearing of riparian vegetation adjacent to the Assiniboine River.
13. The Licencee shall install buried pipelines on cultivated land or land in its natural state in accordance with the methodology illustrated in Figures 2 to 4, attached to this Licence. These procedures do not apply when a plough or a continuous trencher is used to install a pipeline.

**Operation – Matters Respecting Water Management and Water Quality Protection**

14. The Licencee shall install and maintain instream water diversion works associated with the Development in accordance with the requirements of the Department of Fisheries and Oceans.
15. The Licencee shall screen the pump intakes associated with the Development in accordance with the Department of Fisheries and Oceans publication "Freshwater Intake End-of-Pipe Fish Screen Guideline" (March, 1995). Final screen designs shall be approved by the Department of Fisheries and Oceans prior to the operation of the Development.
16. The Licencee shall alter the screens on the pump intakes associated with the Development if future research indicates that different design criteria are appropriate with respect to water withdrawals prior to July 1 of any year.
17. The Licencee shall maintain a minimum instream flow below the diversion points of the Development on the Assiniboine River at all times while water is being diverted into the Development. The minimum instream flow at the diversion points shall be as determined by Manitoba Water Stewardship and in accordance with the provisions of a Water Rights Licence issued for the Development.
18. The Licencee shall immediately cease diverting water from the Assiniboine River or reduce the diversion rate if the minimum instream flow provided for in Clause 17 of this Licence is not equalled or exceeded.
19. The Licencee shall limit the pumping rate at the water diversion points of the Development on the Assiniboine River to 99 litres per second or as specified in a Water Rights Licence issued for the Development by Manitoba Water Stewardship.
20. The Licencee shall, on a daily basis while irrigation is occurring from the Development, record volumes of water pumped, and durations of pumping. A report on this information shall be provided, by March 1 of the following year, to the Environment Officer responsible for the administration of this Licence and the

Environmental Assessment and Licensing Branch. The report shall be provided in the format shown in Table 1, attached to this Licence.

21. The Licencee shall install backflow prevention devices and maintain them in operational condition at all times if fertilizer or crop protection products are applied through the irrigation systems of the Development.
22. The Licencee shall, if fertilizer or crop protection products are applied through the irrigation systems of the Development, not allow irrigation water containing these materials to be applied to or drain to surface water bodies.

**Operation – Matters Respecting Land Management and Soil Quality Protection**


23. The Licencee shall manage phosphorus as well as nitrogen in all nutrient management plans developed pursuant to Clause 24 of this Licence.
24. The Licencee shall implement agronomic practices described in the following documents:
  - (a) Section 6.2 of the report “Mayfair Farm and Jamor Farm Irrigation Project Environmental Act Proposal” prepared by AXYS Agronomics, March, 2006; and
  - (b) “Draft Best Management Practices Manual 1999” by the Central Manitoba Irrigators Association and Central Manitoba Resource Management Ltd., concerning general agronomic practices, or future versions thereof.

**Monitoring**

25. The Licencee shall, upon the request of the Director:
  - (a) sample, monitor, analyze or investigate specific areas of concern regarding groundwater, surface water and soil for such duration and at such frequencies as may be specified;
  - (b) determine the environmental impact associated with the specific areas of concern; and
  - (c) provide the Director, within such time as may be specified, with such reports, drawings, specifications, analytical data, descriptions of sampling and analytical procedures being used, and such other information as may from time to time be requested.
26. The Licencee shall, prior to the commencement of operation of the Development, meet with the Environment Officer responsible for the administration of this Licence and the contact person for the Environmental Assessment and Licensing Branch of Manitoba Conservation to review the monitoring and reporting requirements of this Licence.

**REVIEW AND REVOCATION**

- A. If, in the opinion of the Director, the Licencee has exceeded or is exceeding or has or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.
- B. If construction of the development has not commenced within three years of the date of this Licence, the Licence is revoked.
- C. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new proposal pursuant to Section 11 of The Environment Act.

  
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**Tracey Braun, M. Sc.**  
**Director**  
**Environment Act**

**Client File: 5195.00**

Mayfair Farm and Jamor Farm Irrigation Project

Annual Water Use Report      Year: \_\_\_\_\_

Intake Location: 1 (Jamor)

Pump Capacity: \_\_\_\_\_ m<sup>3</sup>/s or cfs  
 Minimum Instream Flow: \_\_\_\_\_ m<sup>3</sup>/s or cfs      Measured at: \_\_\_\_\_

Conversions:    1 acre (ac.) = 0.405 hectares (ha.)    1 ha. = 2.471 ac.  
 1 acre-foot (ac.-ft.) = 1.233 cubic decametres (dam<sup>3</sup>)    1 dam<sup>3</sup> = 0.811 ac.-ft.  
 1 cubic foot per second (cfs) = 0.0283 cubic metres per second (m<sup>3</sup>/s)  
 1 m<sup>3</sup>/s = 35.31 cfs  
 1 imperial gallon per minute (IGPM) = 0.000076 m<sup>3</sup>/s  
 1 US gallon per minute (USGPM) = 0.000063 m<sup>3</sup>/s

Date	Pumping Rate	Duration hours	Vol. Pumped dam <sup>3</sup>	Parcel(s) Irrigated
TOTAL		sum	sum	

Table 1 to Environment Act Licence No. 2771

Mayfair Farm and Jamor Farm Irrigation Project

Annual Water Use Report      Year: \_\_\_\_\_

Intake Location: 2 (Mayfair)

Pump Capacity: \_\_\_\_\_ m<sup>3</sup>/s or cfs  
 Minimum Instream Flow: \_\_\_\_\_ m<sup>3</sup>/s or cfs      Measured at: \_\_\_\_\_

Conversions:    1 acre (ac.) = 0.405 hectares (ha.)    1 ha. = 2.471 ac.  
                   1 acre-foot (ac.-ft.) = 1.233 cubic decametres (dam<sup>3</sup>)    1 dam<sup>3</sup> = 0.811 ac.-ft.  
                   1 cubic foot per second (cfs) = 0.0283 cubic metres per second (m<sup>3</sup>/s)  
                   1 m<sup>3</sup>/s = 35.31 cfs  
                   1 imperial gallon per minute (IGPM) = 0.000076 m<sup>3</sup>/s  
                   1 US gallon per minute (USGPM) = 0.000063 m<sup>3</sup>/s

Date	Pumping Rate	Duration hours	Vol. Pumped dam <sup>3</sup>	Parcel(s) Irrigated
TOTAL		sum	sum	

Table 1 (Continued)



Figure 1: Mayfair and Jamor Farm Irrigation Project 2006



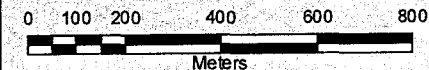
Lateral and Pipeline Map



**Legend**

- Mayfair Laterals
- Jamor Laterals
- Pump Station 1
- Pump Station 2
- Proposed Pipelines (Fall 2005)
- Existing Pipelines
- Drainage
- Landbase Extent

1:15,000

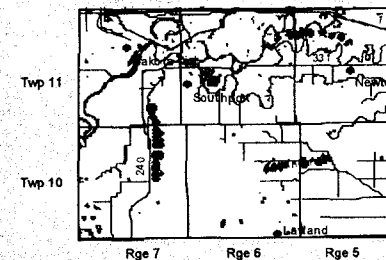


Data Source:  
Highway - Provincial Roads, Designated Drains  
and Continuous Section Fabric data from  
Manitoba Land Initiative, Manitoba Conservation  
1:20,000

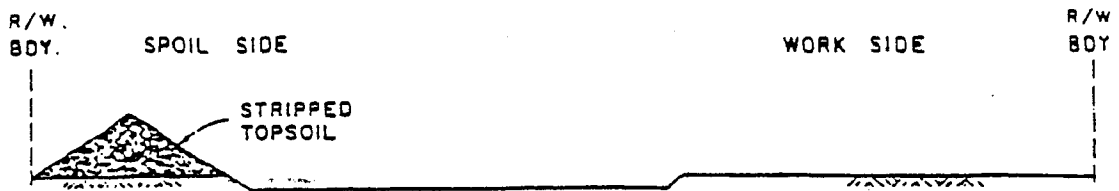
Map Design: Sonia Solivar, PFRA Winnipeg  
Revised in ArcMap 9.1: April 30, 2007  
File Reference: W:\data2\Irrigation\Projects\  
Mayfair\_Jamor\Waps\Pivot\_Mayfair\_Jamor.mxd

Field	Acres
M1	39.9
M2	59.8
M3	61.2
M4	100.7
M5	89.2
M6	26.8
M6	67.3
M7	12.0
M8	19.2
M9	6.7
M10	21.0
<b>Total Acres for Mayfair</b>	<b>504.0</b>
J1	60.1
J2	34.7
<b>Total Acres for Jamor</b>	<b>94.8</b>

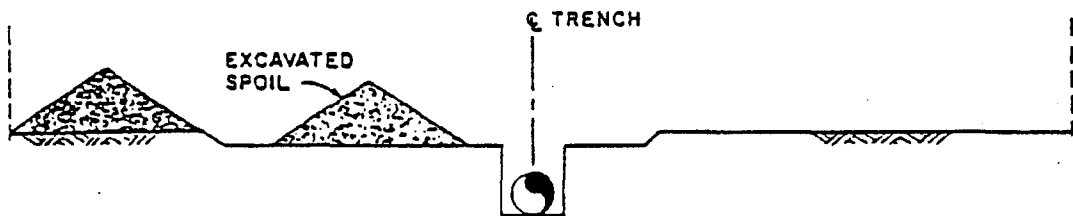
RM of Portage la Prairie



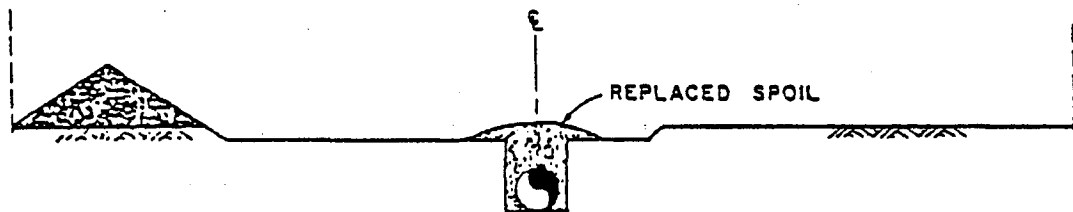




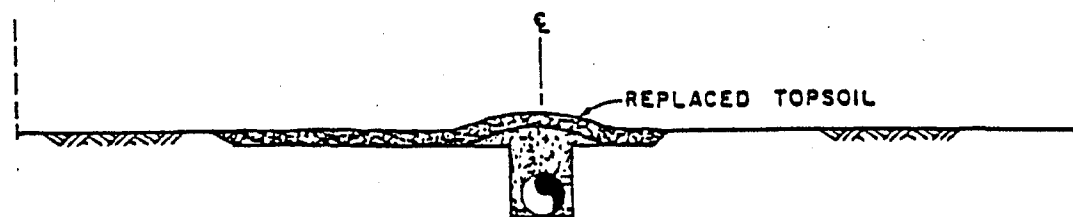
1. TOPSOIL STRIPPED



2. TRENCH EXCAVATED



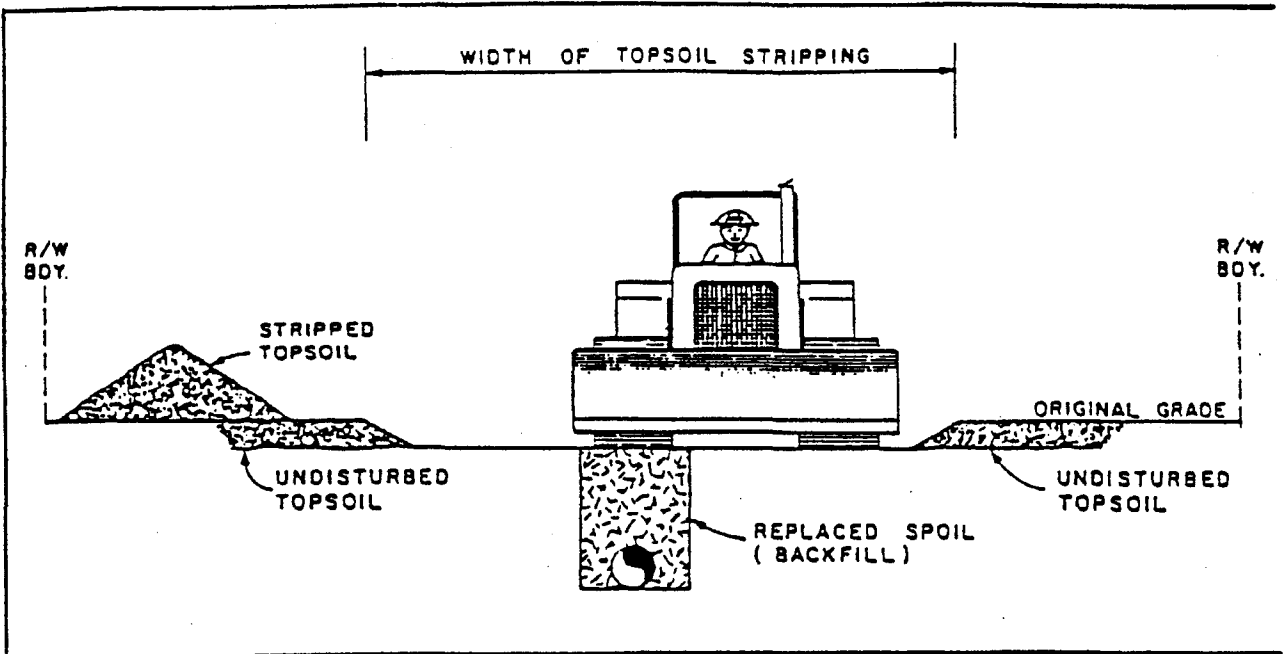
3. TRENCH BACKFILLED



4. TOPSOIL REPLACED

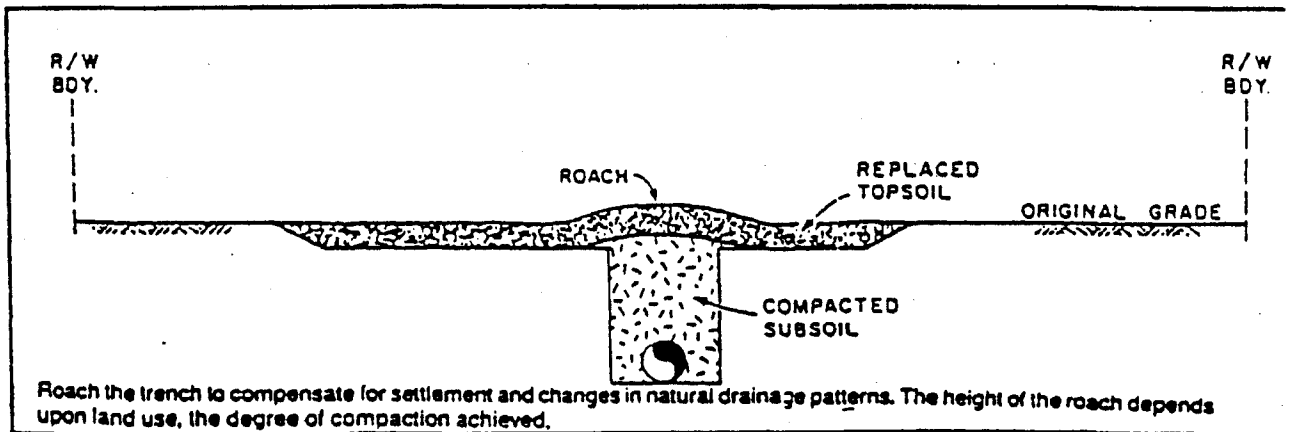
**SEQUENCE OF TOPSOIL HANDLING**

Figure 2



COMPACTION OF BACKFILL

Figure 3



ROACHING THE TRENCH

Figure 4