



~~Environment~~  
Conservation

Environmental Management

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Winnipeg MB R3C 1A5  
CANADA

**FAXED**  
**CLIENT FILE NO.: 4464.00**

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May 16, 2000

Tim Sawatzky, President  
Central Manitoba Resource Management Ltd.  
PO Box 1265  
Portage la Prairie MB R1N 3J9

Dear Mr. Sawatzky:

Enclosed is Environment Act **Licence No. 2452** dated May 16, 2000 issued in accordance with the Manitoba Environment Act to **Central Manitoba Resource Management Ltd.** in connection with the construction and operation of the Development being an irrigation system in the vicinity of the community of Macdonald in the Rural Municipality of Portage la Prairie, in accordance with the Proposal filed under The Environment Act dated July 9, 1999.

In addition to the enclosed Licence requirements, please be informed that all other applicable federal, provincial and municipal regulations and by-laws must be complied with.

For further information on the administration and application of the Licence, please feel free to contact Walter Keryluk at 239-3187.

Pursuant to Section 27 of The Environment Act, this licencing decision may be appealed by any person who is affected by the issuance of this Licence to the Minister of Conservation within 30 days of the date of the Licence.

Yours truly,

ORIGINAL SIGNED BY  
**L. STRACHAN, P. ENG.**  
Larry Strachan, P. Eng.  
Director  
Environment Act

Enc.

- c: - L. MacCallum, Regional Director, South-Central Region, Conservation (FAXED)
- W. Keryluk, Environment Officer, South-Central Region, Conservation (FAXED)
- Centennial Public Library/Manitoba Eco-Network/Portage Plains Regional Library
- G. McPhail, KGS Group (FAXED)
- E. Eising, Central Manitoba Resource Management Ltd. (FAXED)
- B. Shewfelt/P. McGarry, PFRA (FAXED)
- R. Bodnaruk/B. McLeod, Water Resources Branch, Conservation (FAXED)
- J. Bazarkewich, Central Regional Office, Conservation (FAXED)
- K. Fisher, Dept. of Fisheries & Oceans (FAXED)
- R.M. of Portage la Prairie
- D. Menon, Manitoba Water Services Board
- Distribution List (attached)

**NOTE: Confirmation of Receipt of this Licence (by the Licencee only) is required by the Director of Approvals. Please acknowledge receipt by signing in the space provided below and faxing back to the Department by May 23, 2000.**

On behalf of Central Manitoba Resource Management

Date



# Environment Act Licence Loi sur l'environnement Licence

Manitoba  
Conservation  
Conservation  
Manitoba



Licence No./Licence n° 2452

Issue Date/Date de délivrance May 16, 2000

**IN ACCORDANCE WITH THE MANITOBA ENVIRONMENT ACT (C.C.S.M. c. E125)  
THIS LICENCE IS ISSUED PURSUANT TO SECTION 11(1) TO:**

**CENTRAL MANITOBA RESOURCE MANAGEMENT LIMITED;  
"the Licencee"**

for the construction and operation of the Development being an irrigation system in the vicinity of the community of Macdonald in the Rural Municipality of Portage la Prairie, in accordance with the Proposal filed under The Environment Act dated July 9, 1999, 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 ensure that all used oil products and other regulated hazardous wastes generated by the machinery used in the construction and operation of the Development are collected and disposed of 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
  - 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 land as described on the following plan attached to this Licence:

"Lower Rat Creek Irrigation Project Site Plan and Irrigation Area, June 1999, Figure 1"

Proposed amendments to this plan must be submitted to the Director for approval with the nature and purpose of the amendments noted on the plans.

### **Construction**

5. The Licencee shall provide notification to the Environment Officer responsible for the administration of this Licence not less than two weeks prior to beginning construction of the Development of the intended starting date of construction and the name of the contractor responsible for the construction.
6. The Licencee shall, prior to beginning construction of the Development, obtain a Utility Agreement with Manitoba Highways and Government Services respecting the installation of pipelines in provincial road and highway rights-of-way.
7. The Licencee shall ensure that fuel storage areas established for the construction of the Development:
- are located a minimum distance of 100 metres from any waterbody; and
  - shall comply with the requirements of *Manitoba Regulation 97/88R* respecting *Storage and Handling of Gasoline and Associated Products*.
8. The Licencee shall not undertake instream construction activities in connection with the Development between April 1 and June 15 of any year.
9. The Licencee shall not undertake instream construction activities in connection with the Development during periods of high streamflow.
10. The Licencee shall ensure that buried pipelines which are installed on cultivated land or land in its natural state are installed 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**

11. The Licencee shall, prior to operation of the Development, obtain an agreement from the Whitemud Watershed Conservation District respecting the use of the District's drainage system for the conveyance of water for the Development.

12. The Licencee shall, during operation of the Development, take all precautions necessary to prevent fuel from entering any waterbody. Diesel pump units, other than tractors, shall be placed on drip trays and all fuel tanks, other than those on tractors, shall be double walled or contained in larger non drainable containers. Fuel spills in excess of 100 litres shall be immediately reported to an Environment Officer.
13. The Licencee shall ensure that pump intakes associated with the Development are screened 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. Alterations in screen design required by any future changes in the pumping period shall also be approved by the Department of Fisheries and Oceans prior to any changes in the operation of the Development.
14. The Licencee shall ensure that a minimum instream flow is maintained below all diversion points of the Development at all times while water is being diverted into the Development. The minimum instream flow at each diversion point shall be as determined by Manitoba Conservation and specified in a Water Rights Licence issued for the Development.
15. The Licencee shall immediately cease diverting water from the applicable water source to maintain the minimum instream flow specified by Clause 14 of this Licence.
16. The Licencee shall, on a daily basis while irrigation is occurring from the Development, record volumes of water pumped, and durations of pumping for each intake location. 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, the Environmental Approvals Branch, and the Water Resources Branch of Manitoba Conservation. The report shall be provided in the format shown in Table 1, attached to this Licence.
17. The Licencee shall ensure that backflow prevention devices are installed and are operational at all times when fertilizer or crop protection products are applied through the irrigation systems of the Development.

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

18. The Licencee shall ensure that irrigation does not occur, with water diverted by the Development, on a land parcel other than a land parcel identified in the Environment Act Proposal, dated July 9, 1999.
19. The Licencee shall implement agronomic practices described in the following documents:
  - a) Appendix A of the Environment Act Proposal, dated July 9, 1999, concerning field specific practices; and
  - b) The Annex to the Environment Act Proposal titled "Best Management Practices Manual 1999", concerning general agronomic practices.

Practices described in the above noted Annex shall be implemented upon receiving the approval of the Director relative to these Best Management Practices. These practices shall be implemented relative to the specific requirements of Appendix A of the Proposal, and their implementation shall be in keeping with future updates of the Best Management Practices Manual.

### **Monitoring**

20. The Licencee shall provide a listing of annual groundwater, surface water and soil monitoring activities to be carried out for the Development. Surface water monitoring shall include temperature and fish monitoring. The plan shall include a monitoring schedule, and shall be provided to the Director for approval by June 30, 2000.
21. 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 Approvals Branch of Manitoba Conservation to review the monitoring and reporting requirements of this Licence.
22. The Licencee shall, on an annual basis, undertake the monitoring plan approved by Clause 20 of this Licence. A report summarizing the monitoring results for the previous year shall be submitted to the Director by March 1 of each year.

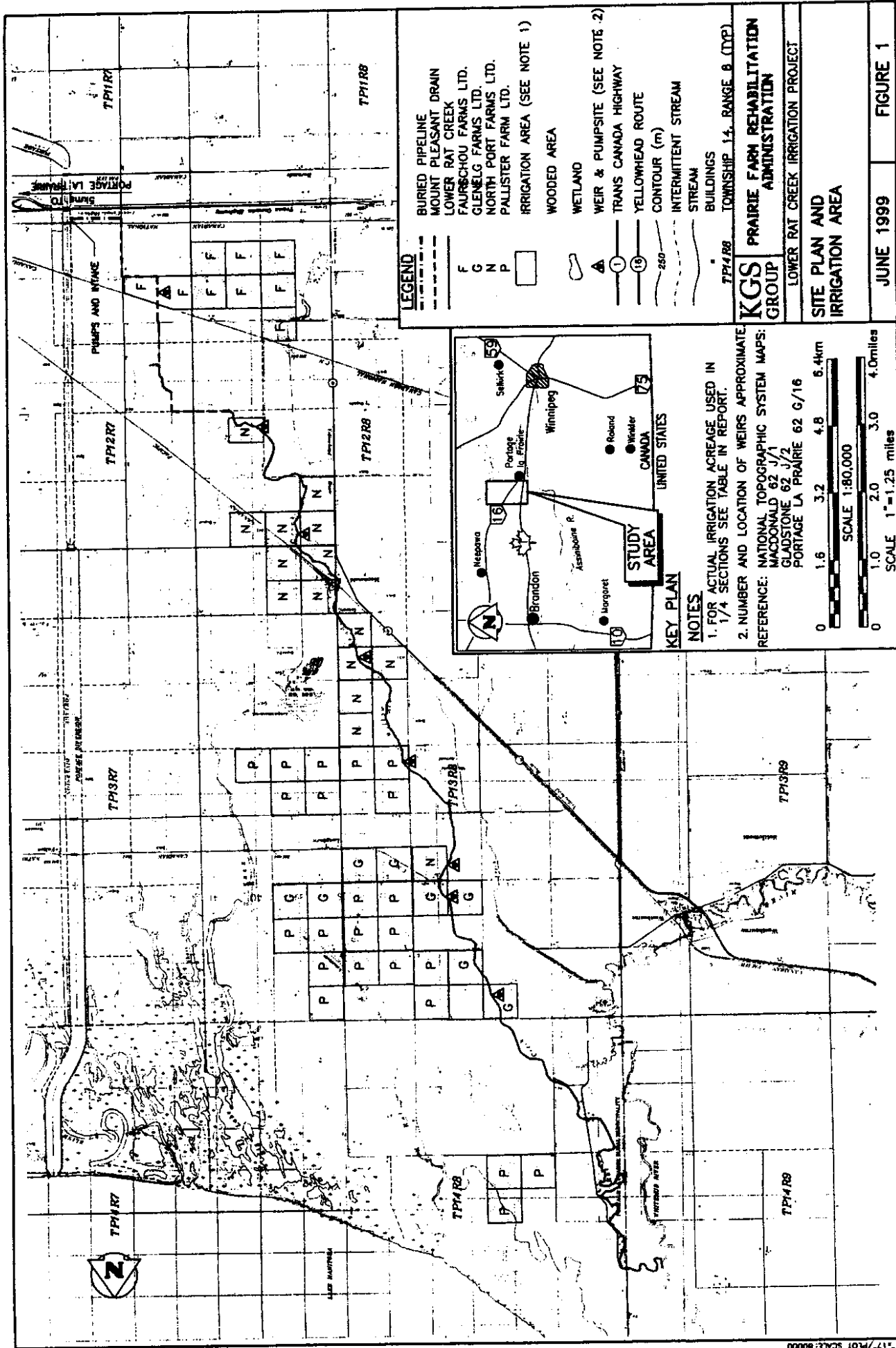
### **REVIEW AND REVOCATION**

- 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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Larry Strachan, P. Eng.  
Director  
Environment Act



**LEGEND**

BURIED PIPELINE  
 MOUNT PLEASANT DRAIN  
 LOWER RAT CREEK  
 FAURSCHOU FARMS LTD.  
 GLENELG FARMS LTD.  
 NORTH PORT FARMS LTD.  
 PALLISTER FARM LTD.  
 IRRIGATION AREA (SEE NOTE 1)

WOODED AREA  
 WETLAND  
 WEIR & PUMPSITE (SEE NOTE 2)  
 TRANS CANADA HIGHWAY  
 YELLOWHEAD ROUTE  
 CONTOUR (m)  
 INTERMITTENT STREAM  
 STREAM  
 BUILDINGS  
 TOWNSHIP 14, RANGE 8 (TYP)

F G N P  
 (Symbol: Triangle)  
 (Symbol: Circle)  
 (Symbol: Line with 250)  
 (Symbol: Dashed line)  
 (Symbol: Solid line)  
 (Symbol: Dotted line)  
 (Symbol: Square)

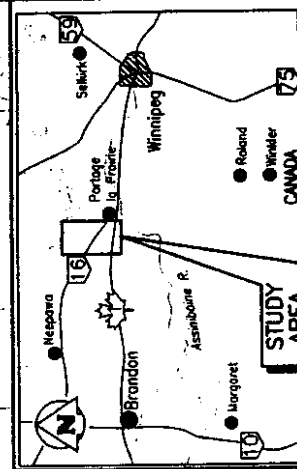
**KGS GROUP**

**PRAIRIE FARM REHABILITATION ADMINISTRATION**

**SITE PLAN AND IRRIGATION AREA**

JUNE 1999

FIGURE 1

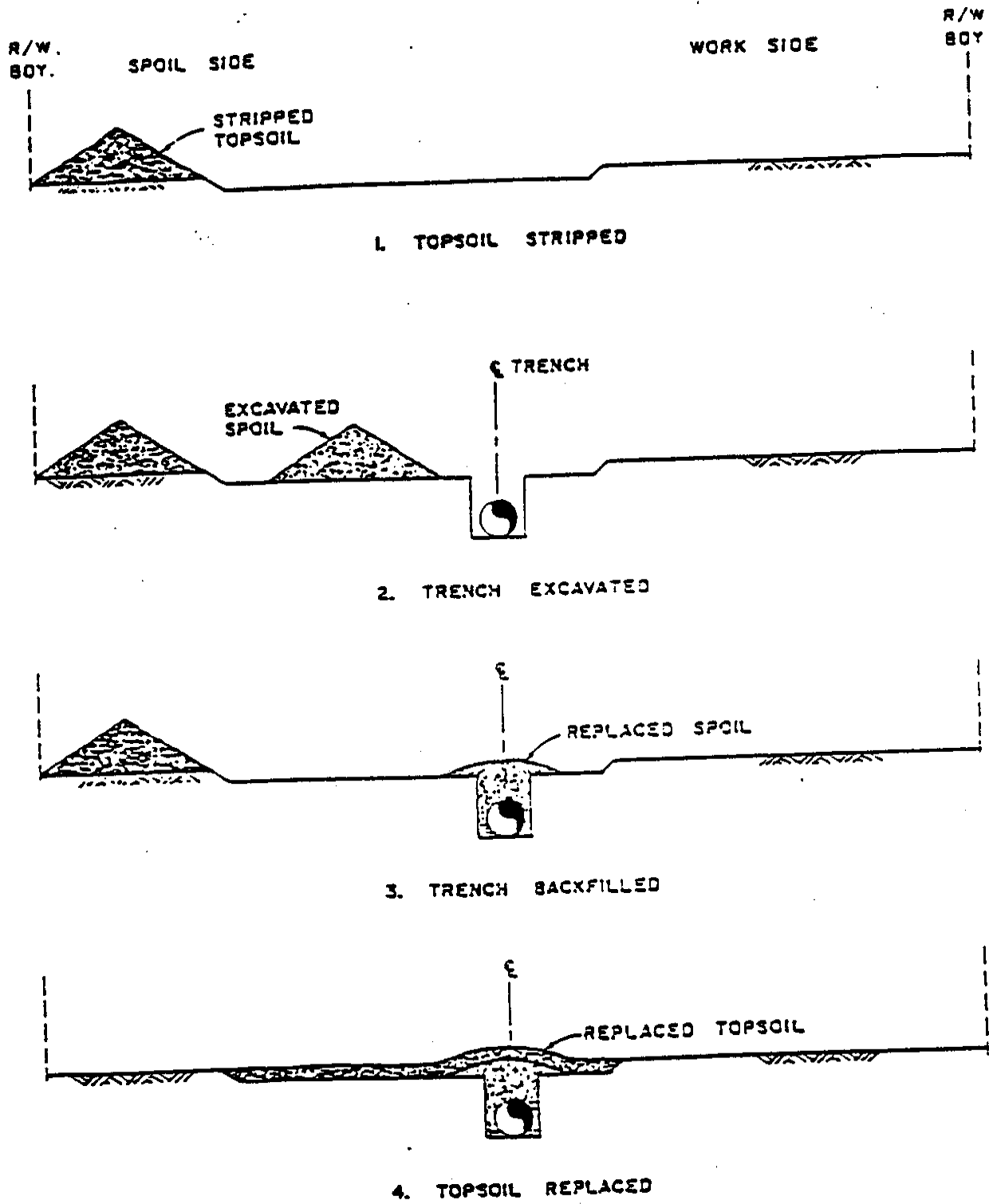


**NOTES**

- FOR ACTUAL IRRIGATION ACREAGE USED IN 1/4 SECTIONS SEE TABLE IN REPORT.
- NUMBER AND LOCATION OF WEIRS APPROXIMATE

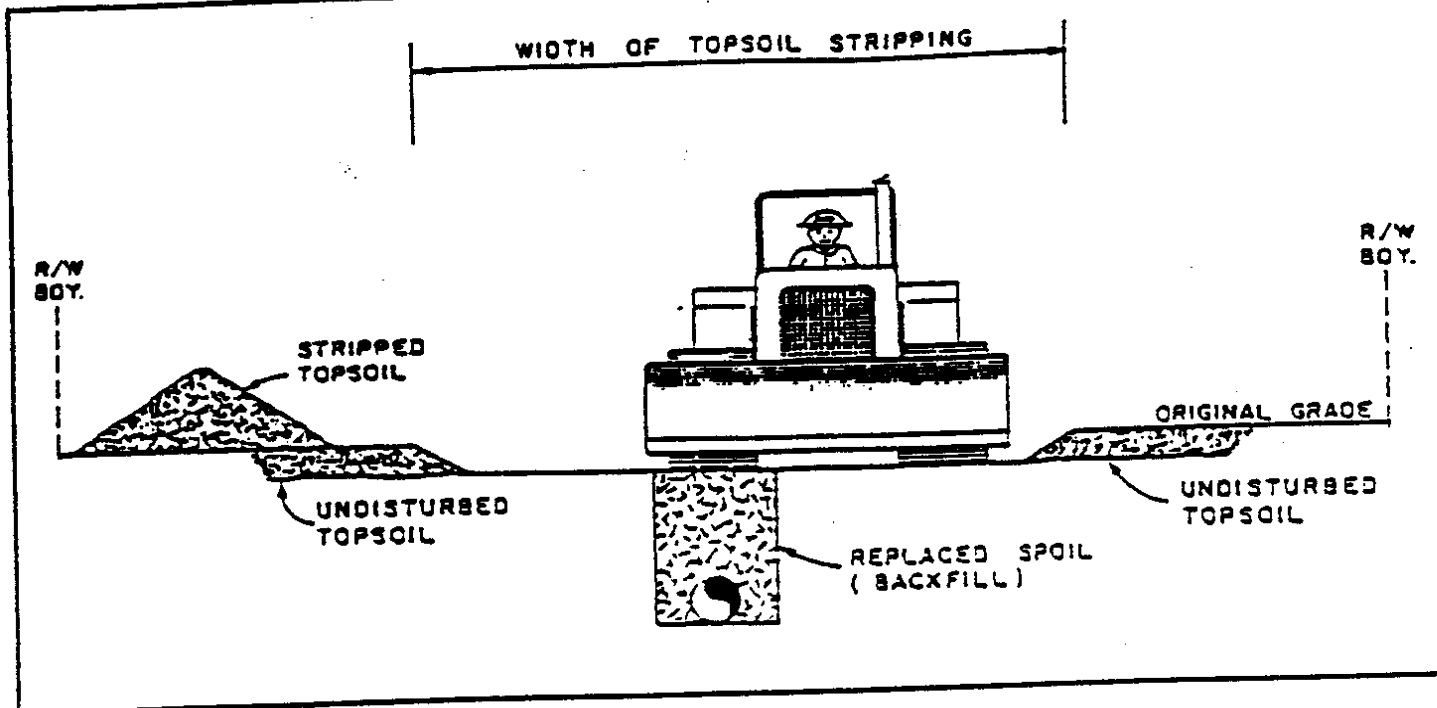
REFERENCE:  
 NATIONAL TOPOGRAPHIC SYSTEM MAPS:  
 MACDONALD 62 J/1  
 GLADSTONE 62 J/2  
 PORTAGE LA PRAIRIE 62 G/16

SCALE 1:80,000  
 0 1.6 3.2 4.8 6.4km  
 0 1.0 2.0 3.0 4.0miles  
 SCALE 1"=1.25 miles



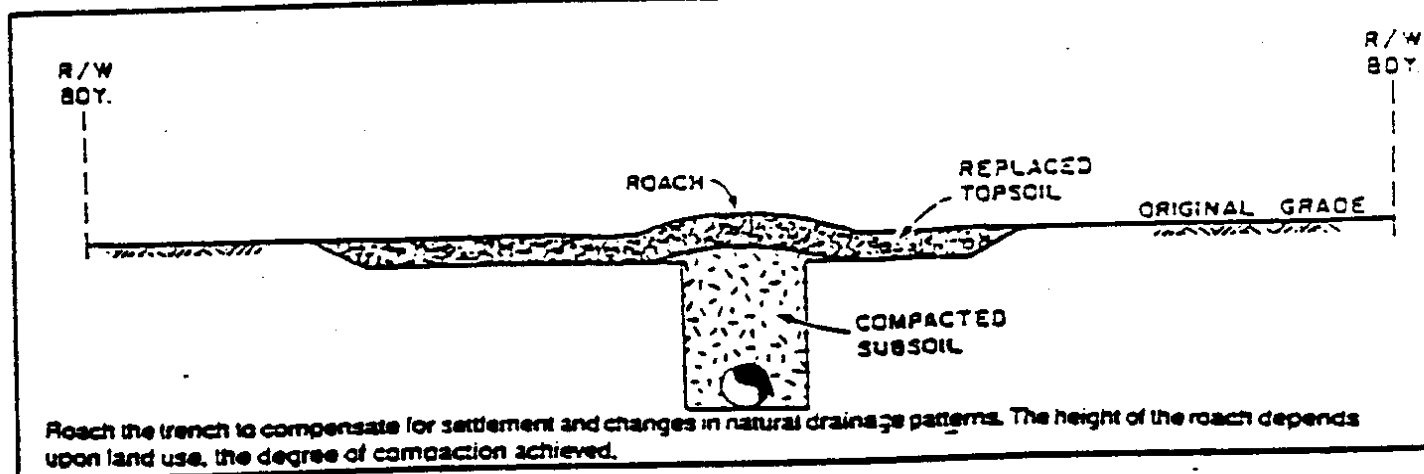
**SEQUENCE OF TOPSOIL HANDLING**

**Figure 2**



COMPACTION OF BACKFILL

Figure 3



ROACHING THE TRENCH

Figure 4



**Table 1**  
**To Environment Act Licence No. 2452**

<b>Central Manitoba Resource Management Limited</b>				
<b>Lower Rat Creek Irrigation Project</b>				
Annual Water Use Report				
<b>Intake Loc.:</b>	_____	<b>Year:</b>	_____	
<b>Pump Capacity:</b>	_____		m <sup>3</sup> /s or cfs	
<b>Conversions:</b>	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			
<b>TOTAL</b>		sum	sum	