



8 June 2004

Five Star Beef Limited
C/- URS New Zealand Limited
PO Box 4479
CHRISTCHURCH

58 Kilmore Street, PO Box 345, Christchurch

General enquiries: (03) 365-3828

Fax: (03) 365-3194

Email: ecinfo@ecan.govt.nz

Customer services: (03) 363-9007

or: 0800 EC INFO (0800 324-636)

Website: www.ecan.govt.nz

Attn: Mr Mark Mabin

Dear Mr Mabin

FILE

RESOURCE MANAGEMENT ACT 1991

NOTICE OF DECISION RESOURCE CONSENT: CRC030686 – CRC030690 & CRC031791

The decision of Environment Canterbury is to grant your application on the terms and conditions specified in the attached resource consent document. The reasons for the decision are

- 1) The proposed activity does not conflict with the purpose of the Resource Management Act given the recommended conditions.

For some activities a report is prepared, with officer recommendations, to provide information to the decision makers. If you require a copy of the report please contact our Customer Services section and a copy will be provided.

If you do not agree with the consent authority decision, you may appeal to the Environment Court, P O Box 2069, Christchurch. The notice of appeal must be lodged with the Court within 15 working days of receipt of this decision, with a copy forwarded to Environment Canterbury within the same period. If you are in any doubt about the correct procedures, you should seek legal advice.

The commencement date for your resource consent is the date of this letter advising you of the decision, unless you lodge an appeal against the decision. The commencement date will then be the date on which the decision on the appeal is determined.

Enclosed is our Customer Satisfaction Survey. Please help us to provide a quality service that meets our customer needs by filling out the survey form and returning it in the postage paid envelope provided. Your feedback is anonymous unless you complete the space provided on the survey form with your name and consent number. If you would like a reply to any matters raised in your survey reply, please tick the box provided on the form.

Also enclosed is a Consent Holder Fact Sheet which you should read and keep for future reference. This fact sheet contains important information about your consent and answers some commonly asked questions about what will happen next in the life of your resource consent.

Charges, set in accordance with section 36 of the Resource Management Act 1991, shall be paid to the Regional Council for the carrying out of its functions in relation to the administration, monitoring and supervision of resource consents and for the carrying out of its functions under section 35 of the Act.

Our Ref: CO6C/19916
Your Ref:
Contact: Customer Services

Thank you for helping us make Canterbury a great place to live.

If you have any queries please contact our Customer Services Section by telephoning (03) 365 3828, or 0800 ECINFO (0800 324 636).

Yours sincerely

A handwritten signature in black ink, appearing to be 'Tania Harris', written in a cursive style.

Tania Harris
TEAM LEADER CONSENTS ADMINISTRATION
on behalf Environment Canterbury
Encl.

RESOURCE CONSENT

Pursuant to Section 104 of the Resource Management Act 1991

The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO: Five Star Beef Limited

A Discharge Permit: To discharge up to 3300 cubic metres per day of treated feedlot effluent onto land via a pond and spray irrigation system, at or about map reference L37:160-863.

DATE GRANTED: 28 May 2004

EXPIRY DATE: 28 August 2024

IN CONNECTION WITH THE FOLLOWING PROPERTY:

LOCATION: Gibsons Road, Wakanui

LEGAL DESCRIPTION: RS 18247 23948 24208 24209 24273 25255 25589 26275 26276 28773 30783 34505 34870 PT RS 20748 BLKS VI X WAKANUI SD RS 24273X RS 39387 39388 39428 BLKS VI X WAKANUI SD RS 39952 LOT 1 DP 23552 PT RS 20748 BLK VI WAKANUI SD PT RS 35863 RS 3805 20747 30898 LOT 2 DP 58782 RS 17057 17239 35520 36651 BLK VI

SUBJECT TO THE FOLLOWING CONDITIONS:

- 1) This consent is subject to the general conditions listed in Schedule 1 – General Conditions.
- 2) The discharge shall only be run-off from the cattle feedlot, located at seaside and Fitzgerald Road, Wakanui, shown on the accompanying plan CRC030686.
- 3) The volume of feedlot effluent discharged onto land shall not exceed 3,300 cubic metres per day.
- 4) Prior to discharge to land the feedlot effluent shall be passed through the sedimentation and retention ponds shown on the accompanying plan CRC030686.
- 5) The feedlot effluent shall be discharged via spray irrigation onto the area of land identified as the discharge area on the accompanying plan "Five Star Beef Feedlots Soils, Figure 5.1 URS New Zealand", except when rainfall causes the sedimentation retention ponds to overflow and the effluent may be discharged via border-dyke irrigation onto the area identified as the border-dyke area on the accompanying plan.
- 6) The consent holder shall notify Canterbury Regional Council within 24 hours of:
 - (a) any overflow occurring from the sedimentation or retention ponds and
 - (b) any discharge to land via border-dyke irrigation.
- 7)
 - (a) The maximum application rate of feedlot effluent onto soils identified as Waimakariri soils on the accompanying plan "Five Star Beef Feedlot Soils, Figure 5.1, URS New Zealand", shall be 40 millimetres per day; and
 - (b) The total nitrogen loading rate on these soils shall not exceed 455kg/N/ha/yr.
- 8) The maximum application rate of feedlot effluent onto soils identified as Riverside and Connemorra soils on the accompanying plan "Five Star Beef Feedlot Soils, Figure 5.1, URS New Zealand" shall be 50 millimetres per day.

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- 9) Where effluent is discharged to land via spray irrigation there shall be no discharge of effluent onto land:
- (i) Within 20 metres of any water race, stream or creek;
 - (ii) Within 20 metres of any property boundary;
 - (iii) Within 100 metres of the spring high tide mark or cliff face;
 - (iv) Within 150 metres up gradient and 30 metres in any other direction of any well used for drinking water;
 - (v) Onto any land where surface ponding is occurring.
- 10) The discharge shall not result in runoff of effluent to adjoining properties or surface waterways.
- 11) Where effluent is discharged to land via spray irrigation there shall be no ponding of effluent on the ground.
- 12) If, as a consequence of the exercise of this consent, water in any well used for domestic purposes in the zone of influence on the accompanying plan "Figure 7.1: Potential groundwater contamination zones of influence" does not meet the Drinking Water Standards for New Zealand (2000), the consent holder shall on request make available a supply of potable water which meets the aforesaid standard.
- 13) (a) If effluent is spread from a system hydraulically connected to groundwater or surface water, a reduced pressure zone backflow preventer shall be installed within the pump outlet plumbing or within the mainline to prevent the backflow of water into the waterbody.
- (b) The backflow preventer shall be tested annually by a suitably qualified person. A test report shall be provided to the Canterbury Regional Council within two weeks of each inspection.

ISSUED AT CHRISTCHURCH ON 8 JUNE 2004



Tania Harris

TEAM LEADER CONSENTS ADMINISTRATION
on behalf of the Canterbury Regional Council

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Plan CRC030686

Five Star Beef Feedlot and associated facilities

Grid Reference: L37:1672-8585

The information in this plan has been taken from Environment Canterbury's records. It is supplied in good faith, but its accuracy or completeness is not guaranteed. If the information is relied on in support of a resource consent application it should be verified independently.

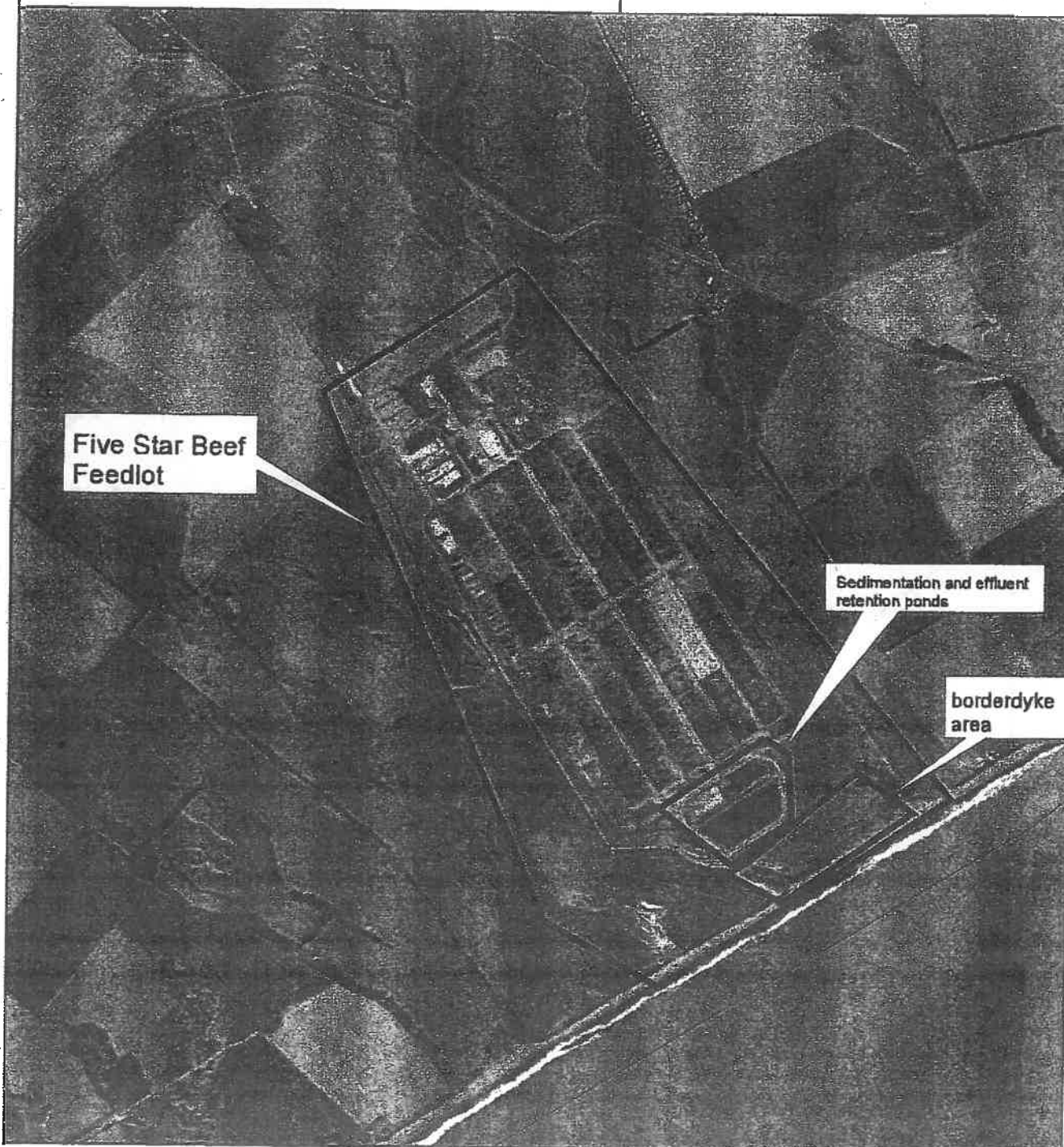
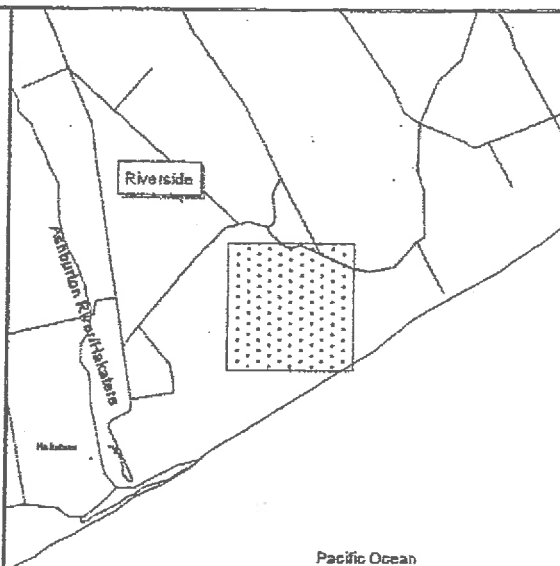
Digital Terrain Information obtained from the NZTopo database.
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Created by the Environment Canterbury's GIS PLOTS system (2009).

Created by: Jacqueline
Date: February 25, 2004
Scale: 1:15000

District Boundaries
Roads

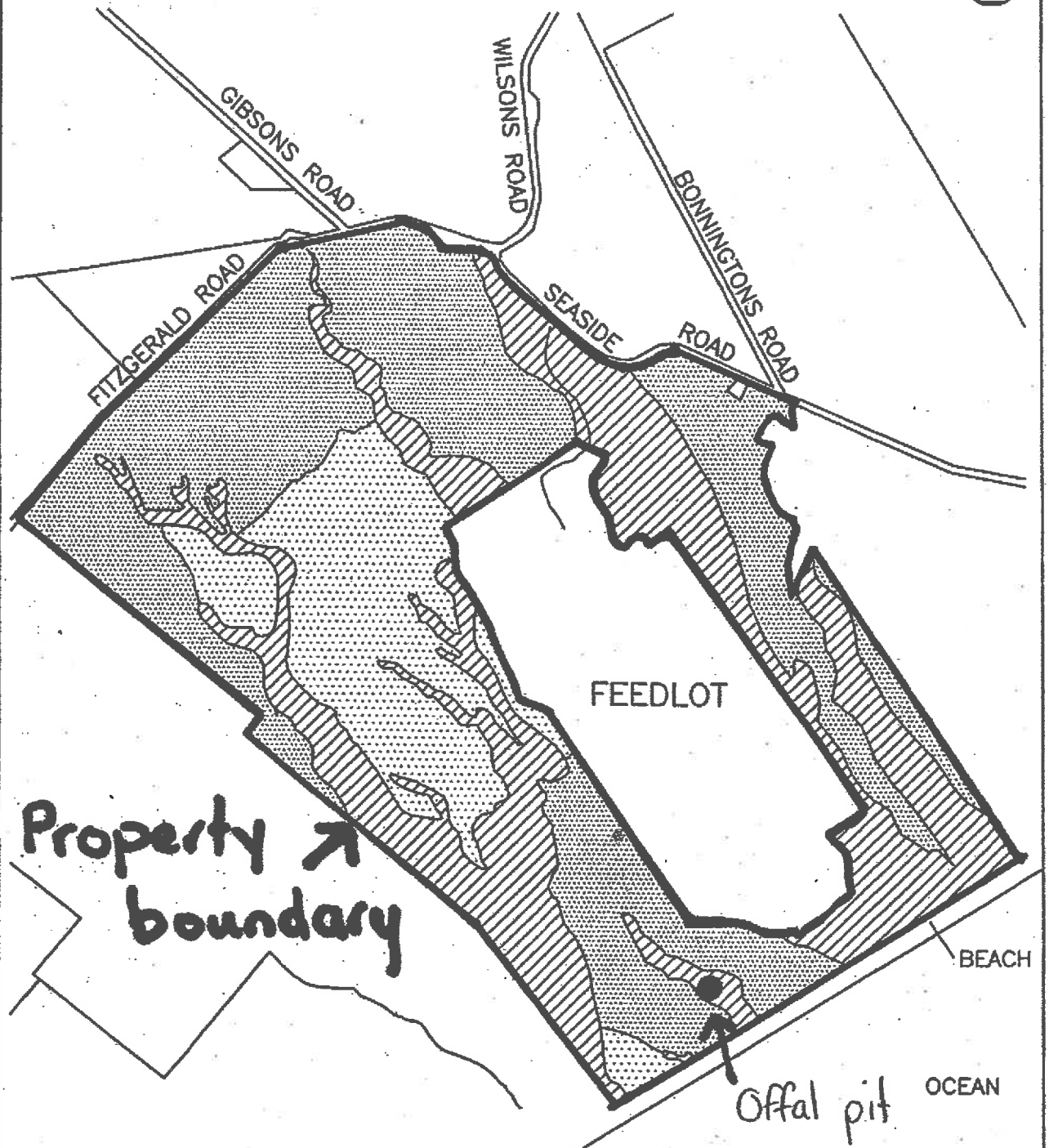
0 200 400 600 800 Meters



Five Star Beef Feedlot

Sedimentation and effluent retention ponds

borderdyke area



0 800m
SCALE

KEY



RIVERSIDE
SOILS



CONNEMORRA
SOILS



WAIMAKARIRI
SOILS

SOILS OF THE
TERRACE LANDS

SOILS OF THE
GULLY LANDS



= discharge area.

Title
FIVE STAR BEEF FEEDLOT
SOILS

URS New Zealand
Engineering and Environmental Management

Figure No. 5-1

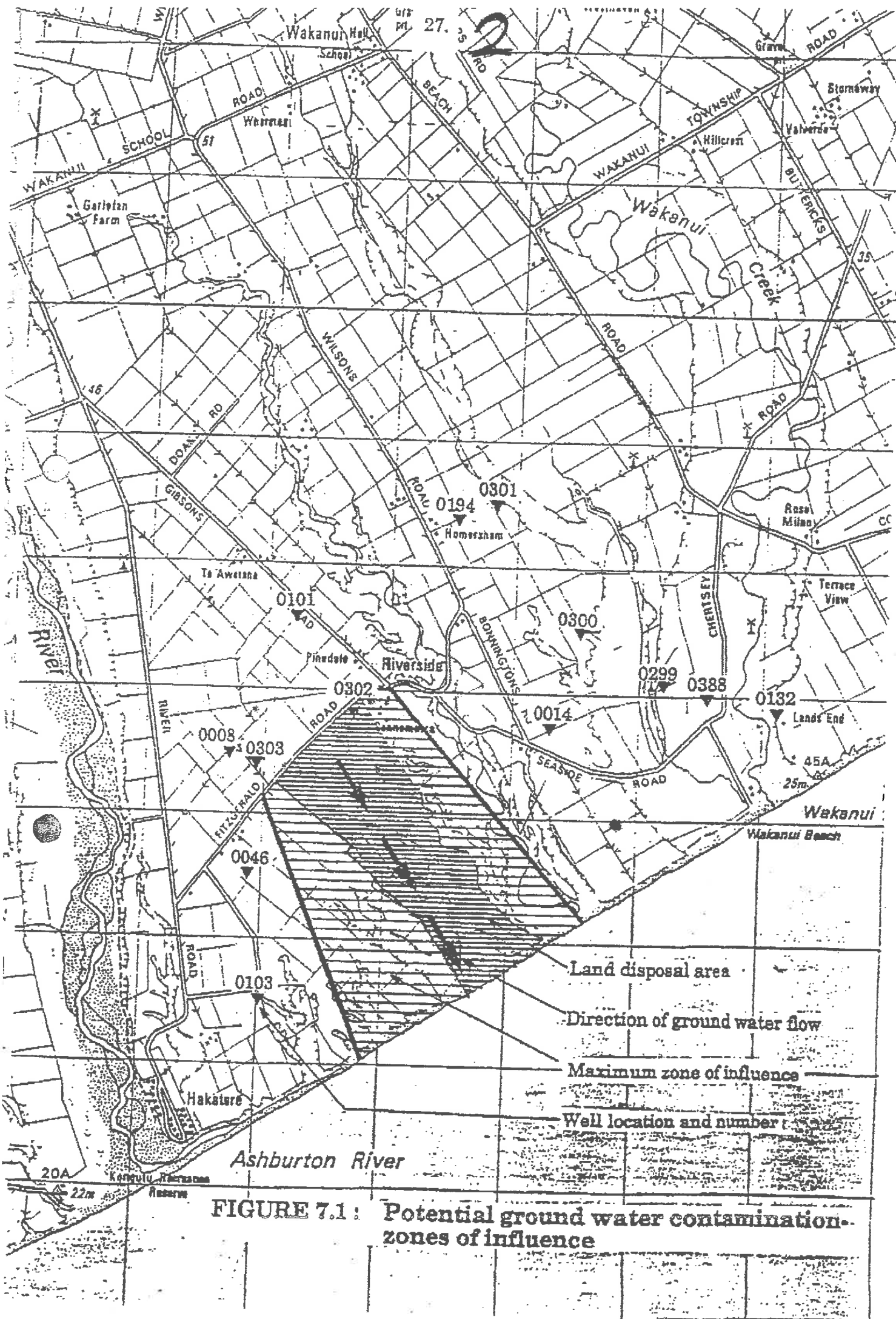


FIGURE 7.1: Potential ground water contamination-zones of influence

RESOURCE CONSENT

Pursuant to Section 104 of the Resource Management Act 1991
The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO: Five Star Beef Limited

A Discharge Permit: To discharge up to 50 cubic metres per week of septic tank effluent into the ground by way of soakage pit, at or about map reference L37:165-863.

DATE GRANTED: 28 May 2004 **EXPIRY DATE:** 28 May 2024

IN CONNECTION WITH THE FOLLOWING PROPERTY:

LOCATION: Gibsons Road, Wakanui

LEGAL DESCRIPTION: RS 18247 23948 24208 24209 24273 25255 25589 26275 26276 28773 30783 34505 34870 PT RS 20748 BLKS VI X WAKANUI SD RS 24273X RS 39387 39388 39428 BLKS VI X WAKANUI SD RS 39952 LOT 1 DP 23552 PT RS 20748 BLK VI WAKANUI SD PT RS 35863 RS 3805 20747 30898 LOT 2 DP 58782 RS 17057 17239 35520 36651 BLK VI

SUBJECT TO THE FOLLOWING CONDITIONS:

- 1) This consent is subject to the general conditions listed in Schedule 1 – General Conditions.
- 2) The discharge shall be only septic tank effluent from the administration and amenities blocks at a feedlot, located at Seaside and Fitzgerald Road, Wakanui, as shown on Plan CRC030686.
- 3) Septic tank effluent shall be stored in two 3000 litre concrete tanks prior to discharging to land via a 40 metre long field drain soakage pit at or about map reference NZMS 260 L37: 165-863.
- 4) Septic tank effluent from the concrete storage tanks shall be conveyed to the soakage pit via pipes surrounded by washed 15-20 millimetre diameter stones.
- 5) The maximum volume of effluent discharged shall not exceed 10 cubic metres per week.
- 6) There shall be no ponding of effluent on the ground.
- 7) (a) There shall be a maintenance service contract for the servicing of the treatment and disposal system described in the application. The contract shall include a requirement that action be taken to ensure that the effluent and disposal system is operated and maintained to enable compliance with the conditions of this discharge permit.
 (b) The servicing shall be done at least once every two years by a person competent in the maintenance of such systems and following every service a written report shall be prepared and a copy forwarded to the Canterbury Regional Council.

ISSUED AT CHRISTCHURCH ON 8 JUNE 2004



Tania Harris
TEAM LEADER CONSENTS ADMINISTRATION
 on behalf of the Canterbury Regional Council

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Plan CRC030686

Five Star Beef Feedlot and associated facilities



Grid Reference: L37:1672-6585

The information in this plot has been taken from Environment Canterbury's records. It is supplied in good faith but its accuracy or completeness is not guaranteed. If the information is relied on in support of a resource consent application it should be verified independently.

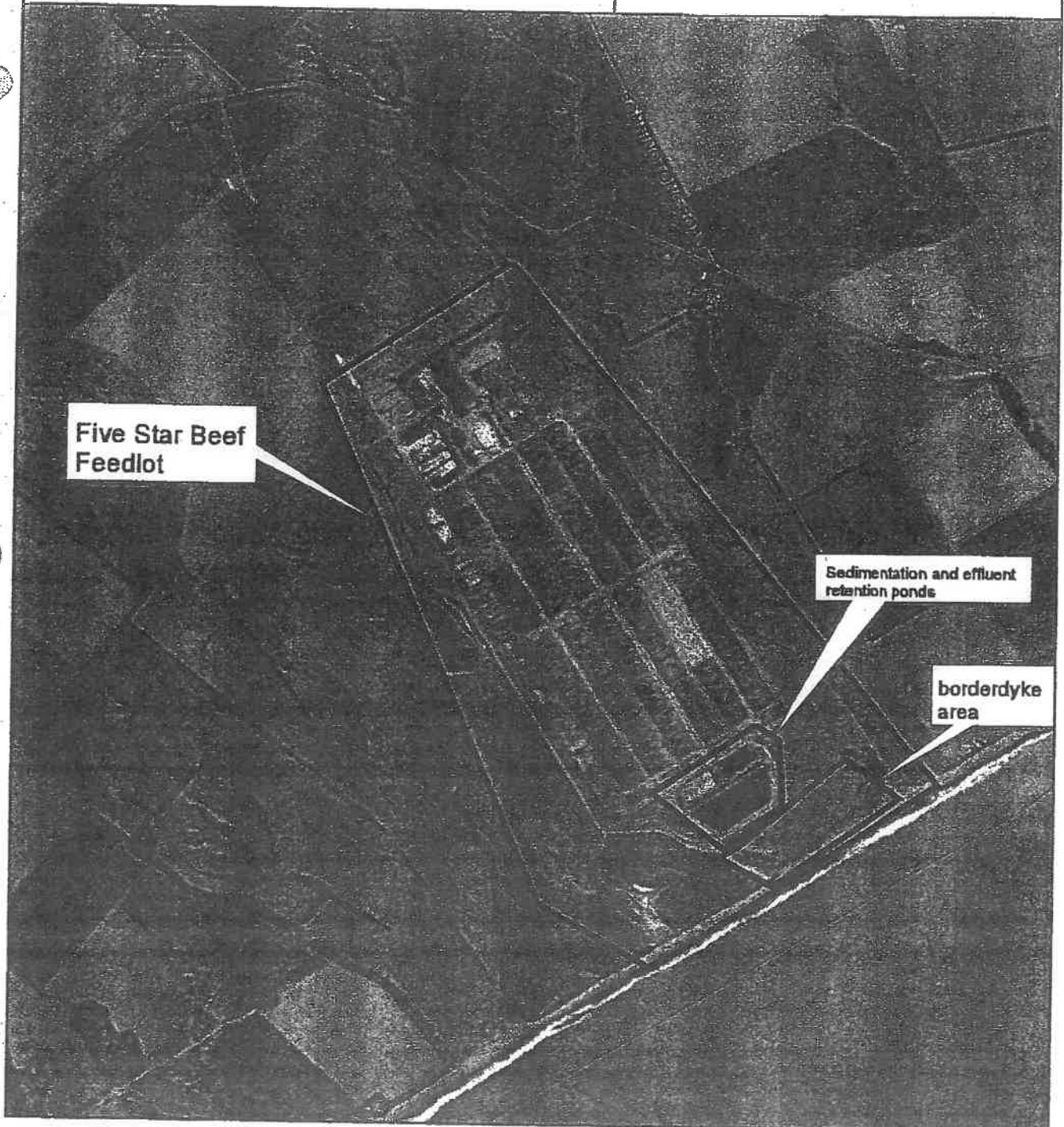
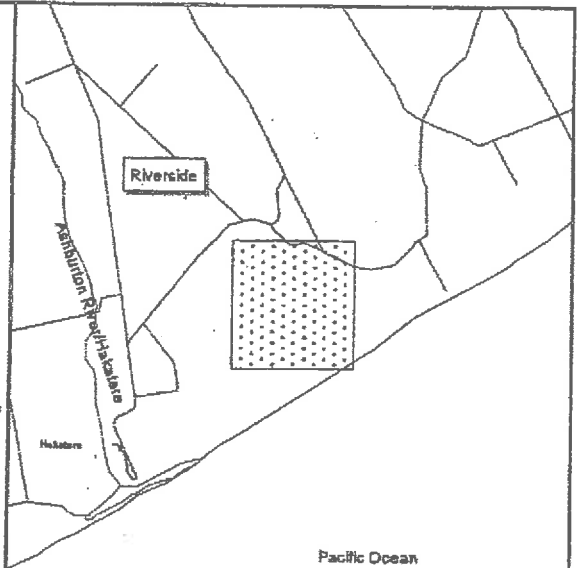
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Created by the Environment Canterbury's GIS PLOT system (2007).

Created by: Jacqueline
Date: February 25, 2004
Scale: 1:15345

District Boundaries
Roads

0 200 400 600 800 Meters



Five Star Beef
Feedlot

Sedimentation and effluent
retention ponds

borderdyke
area

RESOURCE CONSENT

Pursuant to Section 104 of the Resource Management Act 1991
The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO: Five Star Beef Limited

A Discharge Permit: To discharge contaminants to land from the disposal of cow carcasses and general inert waste from office and farm operations.

DATE GRANTED: 28 May 2004

EXPIRY DATE: 28 May 2024

IN CONNECTION WITH THE FOLLOWING PROPERTY:

LOCATION: Gibsons Road, Wakanui

LEGAL DESCRIPTION: RS 18247 23948 24208 24209 24273 25255 25589 26275 26276 28773 30783 34505 34870 PT RS 20748 BLKS VI X WAKANUI SD RS 24273X RS 39387 39388 39428 BLKS VI X WAKANUI SD RS 39952 LOT 1 DP 23552 PT RS 20748 BLK VI WAKANUI SD PT RS 35863 RS 3805 20747 30898 LOT 2 DP 58782 RS 17057 17239 35520 36651 BLK VI

SUBJECT TO THE FOLLOWING CONDITIONS:

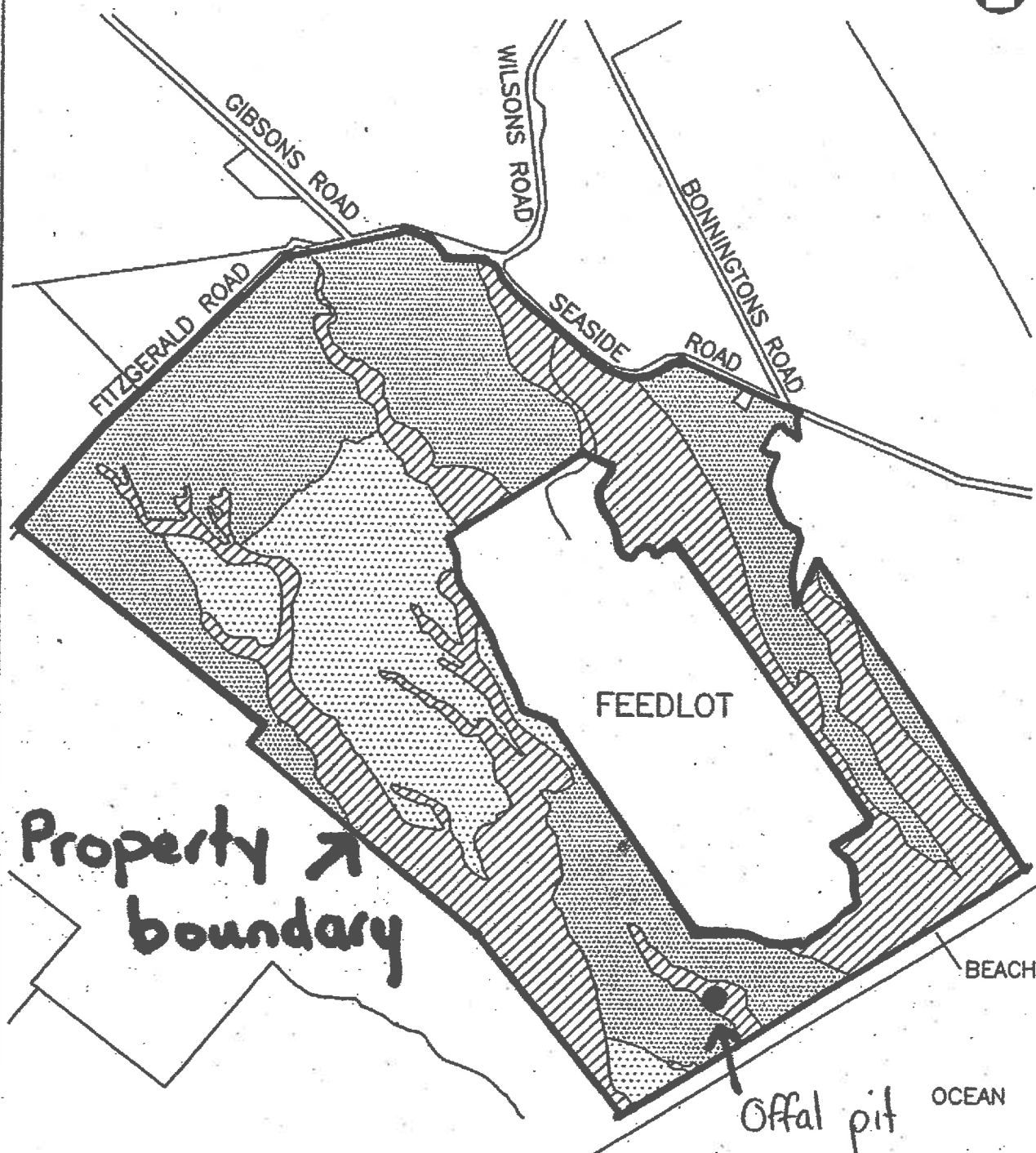
- 1) This consent is subject to the general conditions listed in Schedule 1 – General Conditions.
- 2) The discharge shall be only cattle carcasses and general farm waste, such as paper, food scraps, baling twine and fencing wire from the operation of a feedlot at Seaside/Fitzgerald Roads, Wakanui, as shown on plan "Five Star Beef Feedlot Soils, Figure 5.1, URS New Zealand".
- 3) Carcasses and farm waste shall be disposed of in a 125 cubic metre (25 metres long x 2.5 metres wide x 2.5 metres deep) pit at or about map reference NZMS 260 L37:1698-8497, as identified on plan "Five Star beef Feedlot Soils, Figure 5.1, URS New Zealand".
- 4) The offal pit shall not be located within 50 metres of any surface waterway including the coast.
- 5) Total number of carcasses discharged shall not exceed 200 carcasses in any period of 12 consecutive months, with an average of 100 carcasses per year per each three-year period of the duration of the consent.
- 6) Carcasses shall be completely covered with soil immediately following disposal.
- 7) The discharge shall not cause an odour, which is offensive and objectionable beyond the boundary of the property on which this consent is exercised, as shown on Plan "Five Star Beef Feedlot Soils, Figure 5.1, URS New Zealand".

ISSUED AT CHRISTCHURCH ON 8 JUNE 2004



Tania Harris
TEAM LEADER CONSENTS ADMINISTRATION
 on behalf of the Canterbury Regional Council

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0 800m
SCALE

KEY



RIVERSIDE
SOILS



CONNEMORRA
SOILS



WAIMAKARIRI
SOILS

SOILS OF THE
TERRACE LANDS

SOILS OF THE
GULLY LANDS



= discharge area.

Title
FIVE STAR BEEF FEEDLOT
SOILS

URS New Zealand
Engineering and Environmental Management

Figure No. 5-1

RESOURCE CONSENT

Pursuant to Section 104 of the Resource Management Act 1991
The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO: Five Star Beef Limited

A Discharge Permit: To discharge contaminants to air from disposing of up to 6000 tonnes of dry weight per year of manure from feedlot pens onto land by way of manure spreader, at or about map reference L37:171-852.

DATE GRANTED: 28 May 2004 **EXPIRY DATE:** 28 May 2024

IN CONNECTION WITH THE FOLLOWING PROPERTY:

LOCATION: Gibsons Road, Wakanui

LEGAL DESCRIPTION: RS 18247 23948 24208 24209 24273 25255 25589 26275 26276 28773 30783 34505 34870 PT RS 20748 BLKS VI X WAKANUI SD RS 24273X RS 39387 39388 39428 BLKS VI X WAKANUI SD RS 39952 LOT 1 DP 23552 PT RS 20748 BLK VI WAKANUI SD PT RS 35863 RS 3805 20747 30898 LOT 2 DP 58782 RS 17057 17239 35520 36651 BLK VI

SUBJECT TO THE FOLLOWING CONDITIONS:

- 1) This consent is subject to the general conditions listed in Schedule 1 – General Conditions.
- 2) The maximum volume of manure, straw and gravel discharged onto land shall be 6000 tonnes dry weight per year.
- 3) The discharge shall only be manure, straw and gravel from the feedlot pens.
- 4) The discharge shall only be spread onto land identified as the discharge area on the accompanying plan "Five Star Beef Feedlot Soils, Figure 5.1, URS New Zealand".
- 5)
 - (a) The maximum application rate of feedlot effluent onto soils identified as Riverside and Connemara Soils on the accompanying plan "Five Star Beef Feedlot Soils, Figure 5.1 URS New Zealand" shall be 50 millimetres per day, and
 - (b) The total nitrogen loading rate on these soils shall not exceed 455 kg/N/ha/yr
- 6) There shall be no discharge onto land:
 - (a) within 30 metres of a watercourse; or
 - (b) within 30 metres in any direction of a well used to supply drinking water;
 - (c) within 100 metres of any dwelling unless prior approval has been obtained from the occupier of the dwelling; or
 - (d) such that contaminants are likely to run-off and enter any surface water body or neighbouring property.

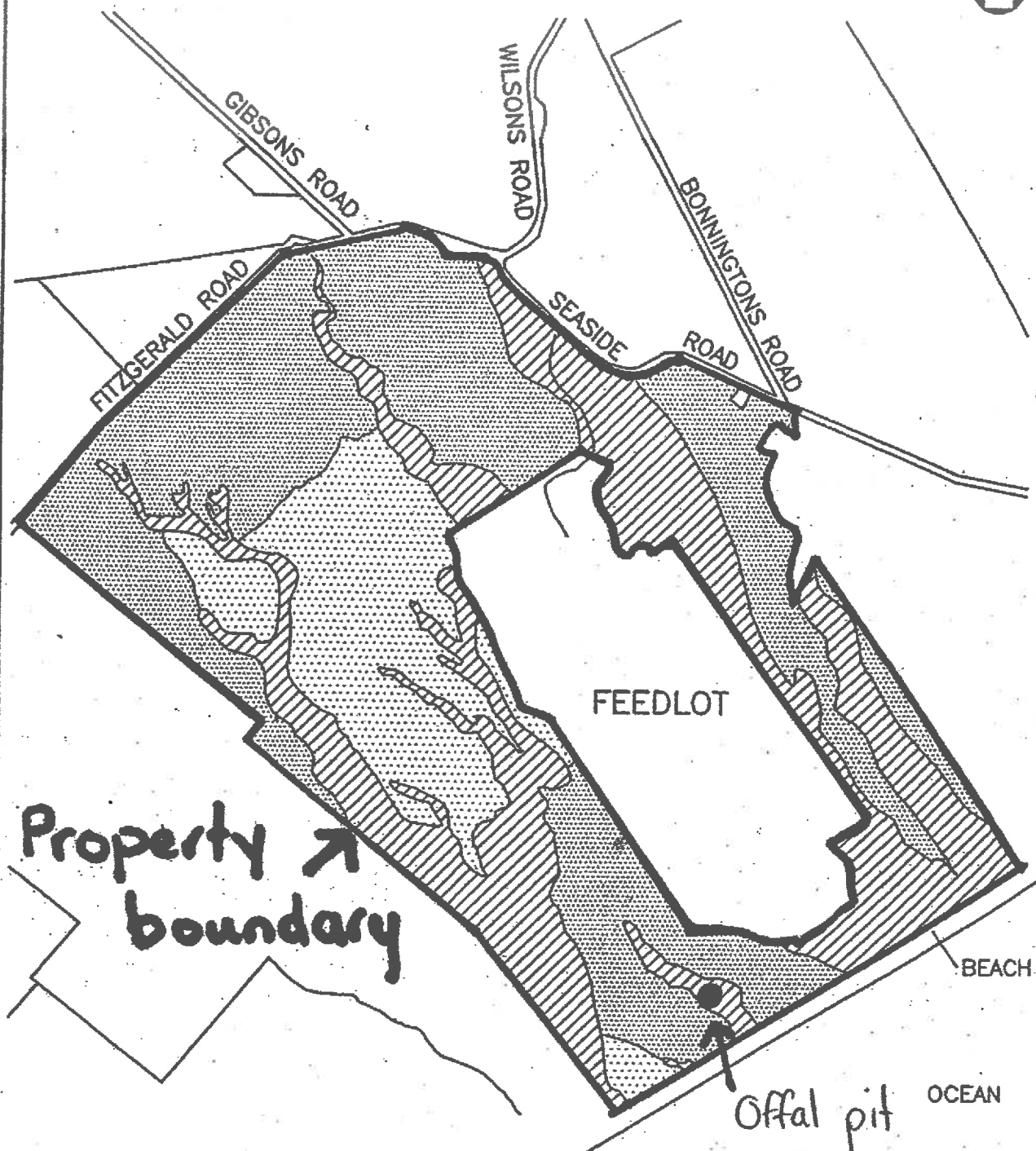
ISSUED AT CHRISTCHURCH ON 8 JUNE 2004



Tania Harris

TEAM LEADER CONSENTS ADMINISTRATION
 on behalf of the Canterbury Regional Council

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KEY



RIVERSIDE
SOILS



CONNEMORRA
SOILS



WAIMAKARIRI
SOILS

SOILS OF THE
TERRACE LANDS

SOILS OF THE
GULLY LANDS



URS New Zealand
Engineering and Environmental Management

□ = discharge area.

Title
**FIVE STAR BEEF FEEDLOT
SOILS**

Figure No. 5-1

RESOURCE CONSENT

Pursuant to Section 104 of the Resource Management Act 1991

The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO:

Five Star Beef Limited

A Discharge Permit:

to discharge treated feedlot effluent into land by way of seepage from effluent sedimentation ponds and retention ponds, at or about map reference L37:171-852.

DATE GRANTED:

28 May 2004

EXPIRY DATE:

28 May 2024

IN CONNECTION WITH THE FOLLOWING PROPERTY:

LOCATION:

Gibsons Road, Wakanui

LEGAL DESCRIPTION:

RS 18247 23948 24208 24209 24273 25255 25589 26275 26276 28773
30783 34505 34870 PT RS 20748 BLKS VI X WAKANUI SD RS 24273X RS
39387 39388 39428 BLKS VI X WAKANUI SD RS 39952 LOT 1 DP 23552
PT RS 20748 BLK VI WAKANUI SD PT RS 35863 RS 3805 20747 30898
LOT 2 DP 58782 RS 17057 17239 35520 36651 BLK VI

SUBJECT TO THE FOLLOWING CONDITIONS:

- 1) This consent is subject to the general conditions listed in Schedule 1 – General Conditions.
- 2) The discharge shall be only treated feedlot effluent from a retention pond and two sedimentation ponds, located at or about map reference NZMS 260 L37: 172-853.
 - (a) There shall be a maintenance service contract for the servicing of the treatment and disposal system described in the application. The contract shall include a requirement that action be taken to ensure that the effluent and disposal system is operated and maintained to enable compliance with the conditions of this discharge permit.
 - (b) The servicing shall be done at least once every two years by a person competent in the maintenance of such systems and following every service a written report shall be prepared and a copy forwarded to the Canterbury Regional Council.

ISSUED AT CHRISTCHURCH ON 8 JUNE 2004



Tania Harris

TEAM LEADER CONSENTS ADMINISTRATION
on behalf of the Canterbury Regional Council

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RESOURCE CONSENT

Pursuant to Section 104 of the Resource Management Act 1991
The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO: Five Star Beef Limited

A Discharge Permit: To discharge contaminants into air from the feedlot including odour, and aerosols from the pens, manure drying and storage facilities, manure spreading operations, effluent sedimentation and retention ponds, and spray irrigation operations.

DATE GRANTED: 28 May 2004

EXPIRY DATE: 28 May 2024

IN CONNECTION WITH THE FOLLOWING PROPERTY:

LOCATION: Gibsons Road, Wakanui

LEGAL DESCRIPTION: RS 18247 23948 24208 24209 24273 25255 25589 26275 26276 28773 30783 34505 34870 PT RS 20748 BLKS VI X WAKANUI SD RS 24273X RS 39387 39388 39428 BLKS VI X WAKANUI SD RS 39952 LOT 1 DP 23552 PT RS 20748 BLK VI WAKANUI SD PT RS 35863 RS 3805 20747 30898 LOT 2 DP 58782 RS 17057 17239 35520 36651 BLK VI

SUBJECT TO THE FOLLOWING CONDITIONS:

- 1) The discharges shall only occur as a result of the operation of a beef feedlot with a maximum holding capacity of 19,000 head of cattle. The discharges shall be only of odour and aerosol droplets from cattle pens, manure drying, manure storage, manure spreading, effluent sedimentation and retention ponds, and effluent spray irrigation.
- 2) The discharges shall only occur from the property of Five Star Beef limited, Seaside/Fitzgerald Roads, Wakanui, located at or about map reference NZMS 260, L37:164-860. The site is shown on plan CRC030690 attached to this consent.
- 3) The discharge shall not create odour or deposited particulate matter that is offensive or objectionable beyond the boundary of the site on which this consent is exercised, as shown on plan CRC030690 attached to this consent.
- 4) A record of any complaints relating to the odour or deposited particulate matter shall be maintained, and as a minimum shall include:
 - (a) The location where the odour or deposited particulate matter was detected by the complainant;
 - (b) The date and time when the odour or deposited particulate matter was detected;
 - (c) A description of the wind speed and wind direction when the odour or deposited particulate matter was detected by the complainant;
 - (d) Activity taking place on the feedlot at the time of the complaint;
 - (e) The most likely cause of the odour or deposited particulate matter detected; and
 - (f) Any corrective action undertaken by the consent holder to avoid, remedy or mitigate the odour or deposited particulate matter detected by the complainant.
 - (g) If possible, the record shall also include the name of the complainant, and the duration and strength of odour events. The record shall be provided annually to the Canterbury Regional Council as part of the Annual Waste Management Review required under Condition (7).

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- 5) (a) By not later than three months after the commencement of this consent, the consent holder shall commence a systematic odour diary-monitoring programme to establish the characteristics of odour impacts caused by discharges from the site. The design of the odour diary programme shall be in accordance with the recognised good practice, as described in the Ministry of the Environment "Good Practice Guide for Assessing & Managing Odour in New Zealand", dated June 2003. The diary programme shall be generally in accordance with Section 6.5, "Five Star Beef Ltd Odour management Plan 2003", attached to this consent as Schedule 1;
- (b) The odour diary programme shall be implemented for a period of not less than two years;
- (c) Results of the odour diary programme shall be reported annually to the Canterbury Regional Council as part of the Annual Waste Management Review required under Condition (7). The reports shall include an assessment of the need for mitigation of any adverse effects identified by the monitoring programme and specify a timetable for implementing any necessary mitigation measures;
- (d) Copies of the diaries shall also be made available to the Canterbury regional Council on request.
- 6) The consent holder shall adopt all practical measures to minimise the emissions of fugitive odour and particulate matter. Without limitation these shall include:
- (a) Annual cleaning of effluent sedimentation ponds;
- (b) Paying attention to climatic conditions when disturbing manure in the effluent sedimentation ponds, such that resulting odours are minimised as far as practicable;
- (c) The regular cleaning of effluent races to avoid the build up of wet manure in them;
- (d) Where practicable, the spraying of effluent only at night or during northwesterly wind conditions;
- (e) Clearing feedlot pens to maintain manure depths at the lowest practicable level, a minimum of three times per year with one cleaning to occur as close before winter as practicable;
- (f) Removing manure from pens following cleaning, as quickly as is practicable;
- (g) Removing stockpiled manure from the site as quickly as is practicable;
- (h) Manure that is spread on land is to be cultivated immediately after application;
- (i) Ensuring that silage wastewater is directed to effluent drains.
- 7) The consent holder shall, once per year, provide an Annual Waste Management Review to the Canterbury Regional Council which shall include but not be limited to the following matters:
- (a) Climate summary;
- (b) Monthly summaries of feedlot activity;
- (c) A review of the odour diary programme;
- (d) A review of complaints received;
- (e) Feedlot operating parameters;
- (f) Necessary mitigation measures required as a result of information received from the monitoring programmes, and action undertaken.

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- 8) The Canterbury Regional Council may, once per year, on any of the five last working days of April or September, serve notice of its intention to review the conditions of this consent for the purposes of:
- (a) Dealing with any adverse effect on the environment which may arise from the exercise of the consent and which is appropriate to deal with at a later stage;
 - (b) Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment; or
 - (c) Modifying or extending any of the monitoring requirements of this consent.

ISSUED AT CHRISTCHURCH ON 8 JUNE 2004



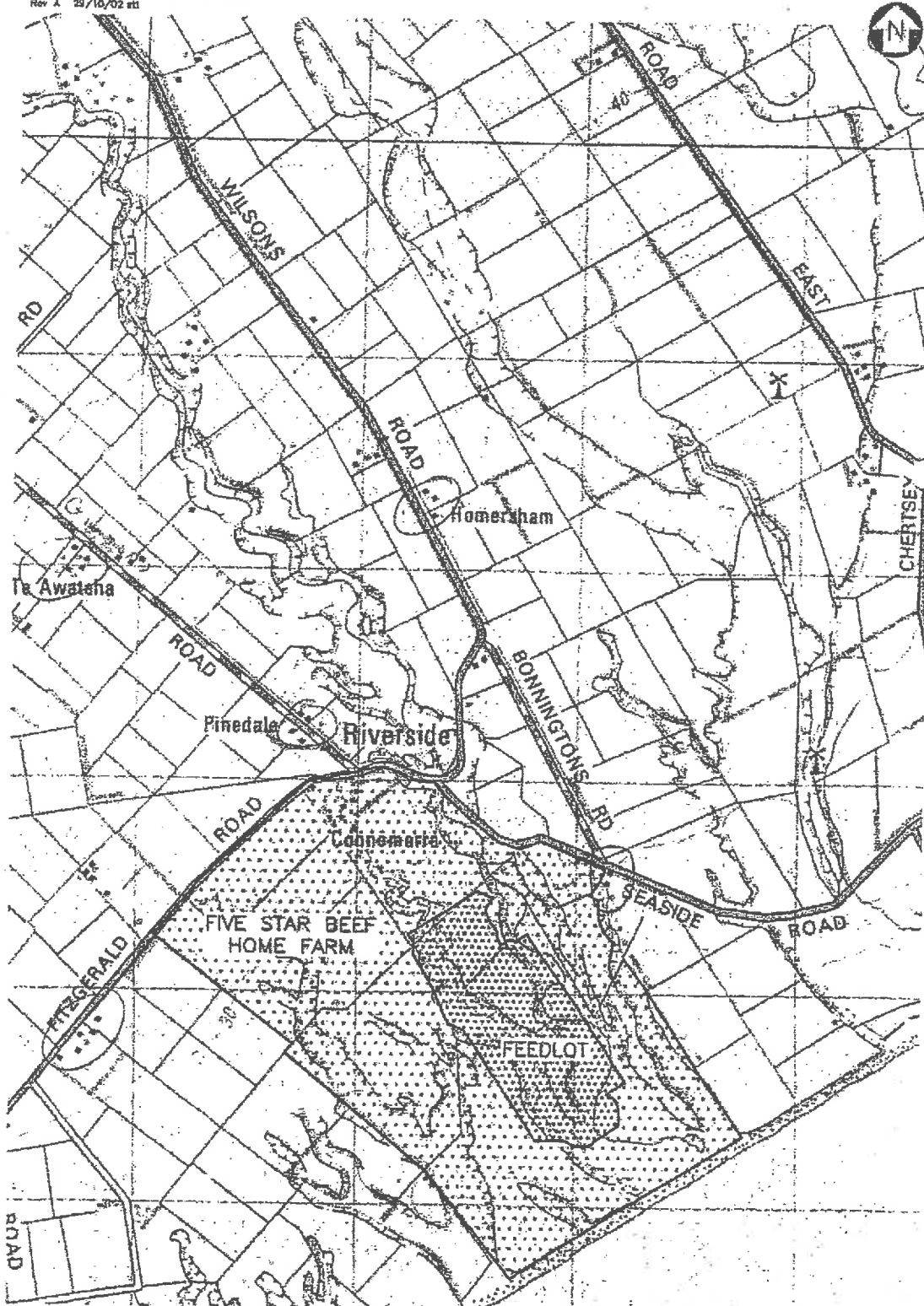
Tania Harris

TEAM LEADER CONSENTS ADMINISTRATION
on behalf of the Canterbury Regional Council

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Plan CRC030690

E:\085\51723\001\0400\8009\8001w007
Rev A 29/10/02 rtd



URS New Zealand
Engineering and Environmental Management

0 1km
SCALE

Title
FIVE STAR BEEF
DISTRICT LOCATION MAP

Figure No. 1-2

CRC030690 SCHEDULE 1 (From Odour Management Plan)

6.5 Odour Diaries

Given the low population density in the Wakanui region, Five Star Beef consider odour diaries a practical and accurate way to determine the extent of odour emission from the feedlot. Odour diaries will be placed in a variety of locations with people who:

- Are willing to collect information.
- Have a balanced view of the feedlot.
- Are considered diligent and accurate at keeping records.

The initial locations of the diary holders will be as follows:

1. Hakatere Huts
2. South
3. North East
4. North West
5. West
6. South West (South of Ashburton River)

Appendix IV shows the locations of the diary holders.

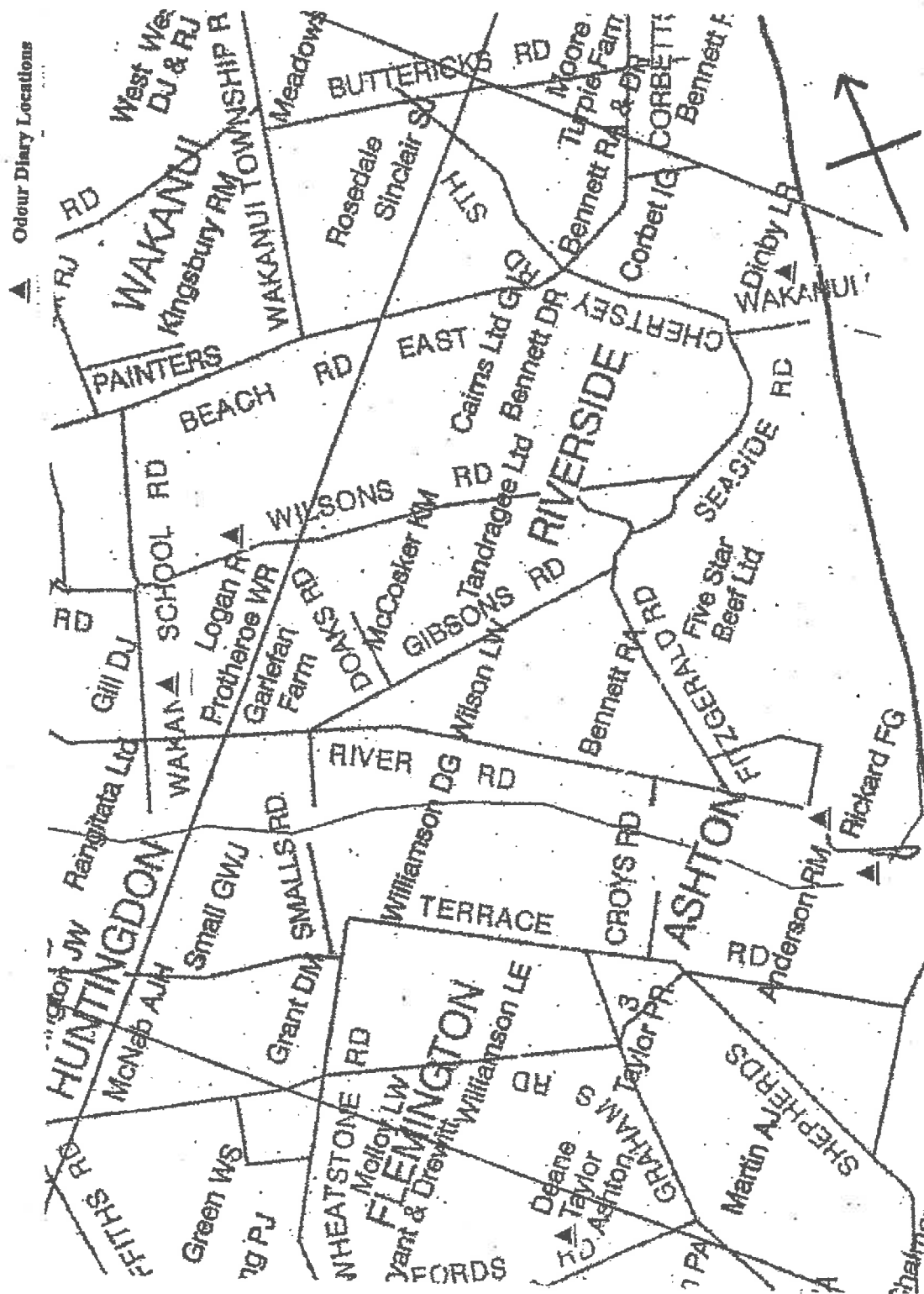
It is envisaged the diaries will be operational no later than the 31 March 2004.

Diary holders may be changed if it is deemed necessary.

An odour diary system will enable Five Star Beef to gain a greater understanding of the effect seasonality, climate and feedlot activity has on odour level and frequency at different locations in the Wakanui region.

Information collected in the odour diaries will include:

- Date
- Time
- Duration of odour
- Continuity of odour
- Odour strength (1-5)
- Odour characteristics
- Wind direction
- Wind strength (1-5)
- Comments



Schedule 1 – General Conditions

Applies to the following Resource Consents – CRC030686, CRC030687, CRC030688, CRC030689 and CRC031791.

Monitoring

Representative samples of the feedlot effluent from the retention ponds shall be taken as follows:

- 1) (a) Samples shall be taken four times per year and analysed for the following parameters:
 - (i) Five day biochemical oxygen demand
 - (ii) total Kjeldahl nitrogen
 - (iii) nitrate nitrogen
 - (iv) ammoniacal nitrogen
 - (v) total phosphorus
 - (vi) potassium
 - (vii) total suspended solids
 - (viii) volatile solids
 - (ix) sodium
 - (x) magnesium
 - (xi) calcium
 - (xii) chloride
 - (xiii) sulphur
 - (xiv) pH
 - (xv) faecal coliforms or *Escherichia coli*?
- (b) The interval between the samples required under (a) being taken shall be at one month.
- 2) Representative samples of coastal water shall be taken as close as possible to the down-gradient boundary of the Five Star Beef feedlot as follows:
 - (a) Four samples per year shall be taken on the same days as the groundwater samples in accordance with Condition (4).
 - (b) Visual observations for bacterial or fungal slime growths shall be made at least four times per year.
- 3) Representative samples of the manure shall be collected twice per year from the stockpile prior to application to land and analysed for the following parameters:
 - (i) Total solids
 - (ii) Moisture content
 - (iii) Total Kjeldahl nitrogen
 - (iv) Total phosphorus
 - (v) Total potassium
 - (vi) Calcium
 - (vii) Magnesium
 - (viii) Sodium
 - (ix) Sulphur
- 4) (a) Representative samples of groundwater shall be taken from the following wells:
L37/0390, at or about map reference NZMS 260 L37:1585-8700
L37/0391, at or about map reference NZMS 260 L37:1740-8518
L37/0392, at or about map reference NZMS 260 L37:1765-8540
L37/0393, at or about map reference NZMS 260 L37:1660-8480



- (b) Samples shall be taken at least four times per year and analysed for the following parameters:
 - (i) Five day biochemical oxygen demand
 - (ii) ammoniacal nitrogen
 - (iii) total Kjeldahl nitrogen
 - (iv) nitrate nitrogen
 - (v) Escherichia coli
 - (vi) Total phosphorus
 - (vii) Calcium
 - (viii) Chloride
 - (ix) sodium
 - (x) potassium
 - (xi) pH
 - (xii) conductivity
 - (c) The interval between the samples being taken shall be at one month.
- 5) Representative soil samples shall be taken once per year from the three soil types within the wastewater irrigation area, as identified on plan CRC030686, and analysed for the following parameters:
- (i) Available N
 - (ii) Total N
 - (iii) pH
 - (iv) phosphorus
 - (v) calcium
 - (vi) magnesium
 - (vii) potassium
 - (viii) sodium
 - (ix) bulk density
 - (x) cation exchange and capacity
 - (xi) base saturation
 - (xii) organic matter
 - (xiii) Sulphate
- 6) All samples taken in accordance with the General Conditions of this schedule shall be analysed using the most appropriate scientifically recognised and current method by a laboratory that is certified for that method of analysis by an accreditation authority such as International Accreditation New Zealand (IANZ).

Reporting

- 7) (a) The consent holder shall prepare a report on the exercise of this consent over the twelve-month period, 1 January to 31 December each year. The report shall include the following:
- (i) Daily volume of effluent discharged;
 - (ii) Date, time and location of each application of effluent;
 - (iii) Depth of each application of effluent;
 - (iv) Daily volume of manure applied per hectare;
 - (v) Annual volume of manure applied per hectare
 - (vi) Date, time and location of each application of manure;
 - (vii) Total nitrogen during each application of effluent and manure;
 - (viii) Total nitrogen applied to the irrigated areas annually;
 - (ix) Weight of dry matter and nitrogen removed from cropped areas;
 - (x) A summary of rainfall, wind speed, wind direction and air temperature over the twelve month period;
 - (xi) Complaints received in response to activities at the site and remedial actions undertaken;
 - (xii) The results of all monitoring undertaken;
 - (xiii) Analysis and interpretation of wastewater quality;

- (xiv) Analysis and interpretation of groundwater quality in the monitoring bores, and a comparison with long-term water quality information available for other bores in the area;
 - (xv) Any changes in management practice carried out in the past year;
 - (xvi) Any changes in management practice proposed for the following year.
- (b) The report shall be provided to the Canterbury Regional Council on or before the first working day of February in each year, and otherwise on request.
- 8) Bacterial or fungus slime growth shall not be visible to the naked eye as plumose growths or mats in the coastal water adjacent to the feedlot facilities as a result of any discharges from the Five Star Beef feedlot.
- 9) The BOD5 of the coastal water adjacent to the feedlot facilities, measured after filtration through a GF/C filter, shall not exceed two grams per cubic metre as a result of any discharge of a contaminant or water.
- 10) Representative samples of coastal water shall be taken as close as possible to the down-gradient boundary of the Five Star Beef Feedlot as follows:
Four samples per year shall be taken on the same days as the groundwater samples are taken in accordance with condition (4)
- 11) Visual observations for bacterial or fungal slime growths shall be made at least four times per year.

Review

- 12) The Canterbury Regional Council may, once per year, on any one of the last five working days of March or September, serve notice of its intention to review the conditions of this consent for the purposes of:
- (a) Dealing with any adverse effect on the environment which may arise from the exercise of this consent and which it is appropriate to deal with at a later stage, including any adverse effects on the coastal environment; or
 - (b) Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment; or
 - (c) Complying with the requirements of a relevant rule in an operative regional plan.

Plan CRC030686

Five Star Beef Feedlot and associated facilities



ORM Reference: L37:1672-2585

The information in this plan has been taken from Environment Canterbury's records. It is supplied in good faith and its accuracy or completeness is not guaranteed. If the information is used in support of a resource consent application it should be verified independently.

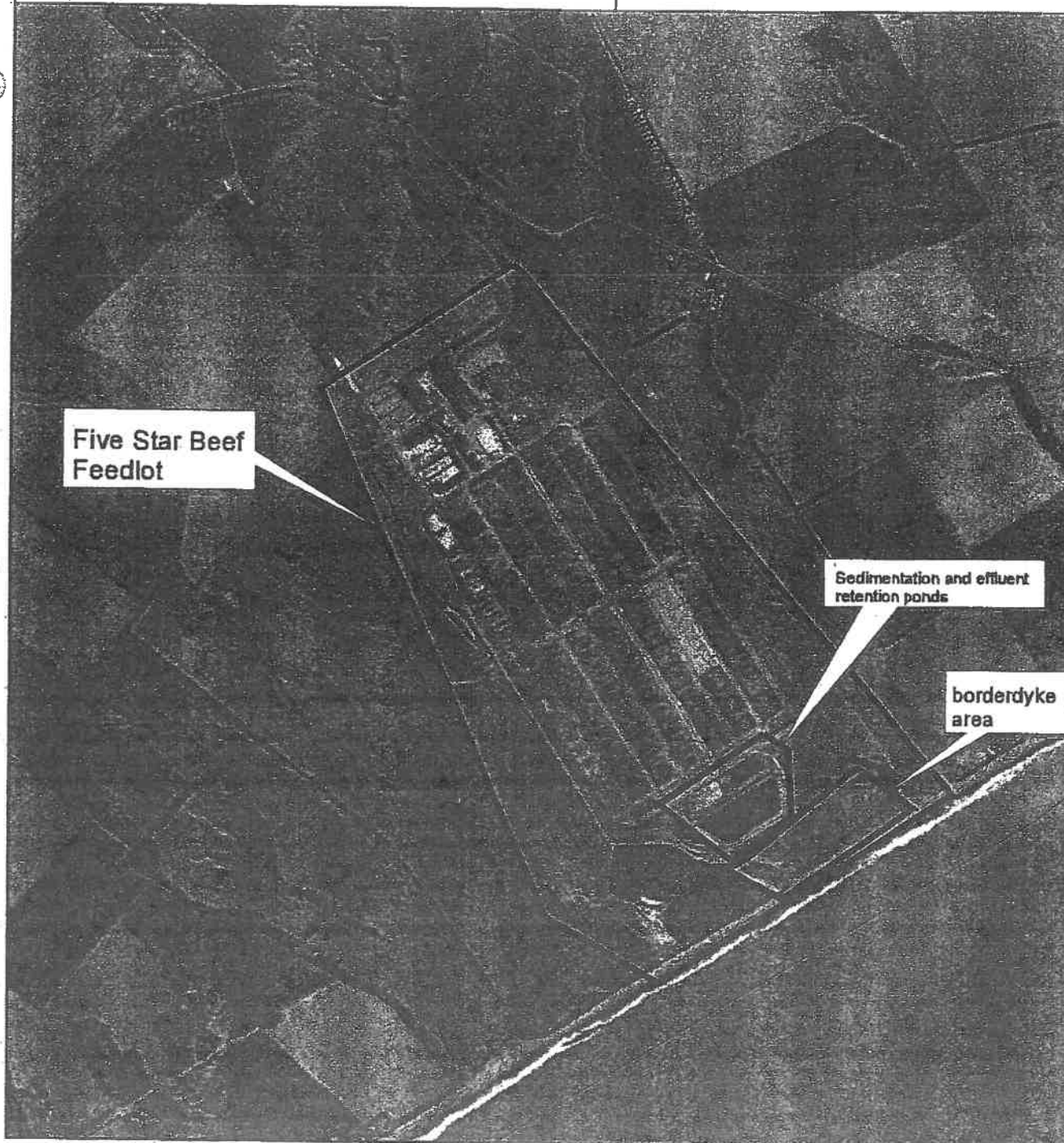
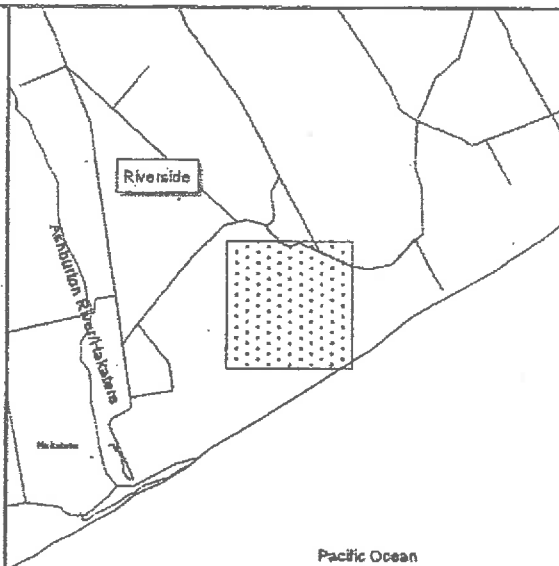
Digital Terrain Information obtained from the NZTopo Database.
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Created by the Environment Canterbury's GIS PLATS system (2007).

Created by: Jacqueline
Date: February 26, 2004
Scale: 1:10000

District Boundaries
Roads

0 200 400 600 800 Meters



Five Star Beef Feedlot

Sedimentation and effluent retention ponds

borderdyke area