



Building Code Clause(s) .....

# PRODUCER STATEMENT – PS1 – DESIGN

*(Guidance notes on the use of this form are printed on the reverse side\*)*

ISSUED BY: EQO New Zealand limited  
(Design Firm)

TO: Frow  
(Owner/Developer)

TO BE SUPPLIED TO: South Wairarapa District Council  
(Building Consent Authority)

IN RESPECT OF: Wastewater system design  
(Description of Building Work)

AT: 4 Olive Grove, Martinborough

We have been engaged by the owner/developer referred to above to provide Wastewater system design .....  
 ..... services in respect of the requirements of  
 Clause(s) G13/AS2 ..... of the Building Code for  
 All or  Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:  
 Compliance Documents issued by Department of Building & Housing .....  
(verification method / acceptable solution) or  
 Alternative solution as per the attached schedule .... AS/NZS1547:2000 .....

The proposed building work covered by this producer statement is described on the drawings titled.....  
Wastewater system design numbered .. 090301-1 &2 plus site assessment form .....;  
 together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:  
 (i) Site verification of the following design assumptions ..... None .....  
 (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code.

I, ..... Andrew Gareth Duncan ..... am:  CPEng ..... # .....  
 Reg Arch ..... # .....

I am a Member of:  IPENZ  NZIA and hold the following qualifications: MIPENZ CPEng

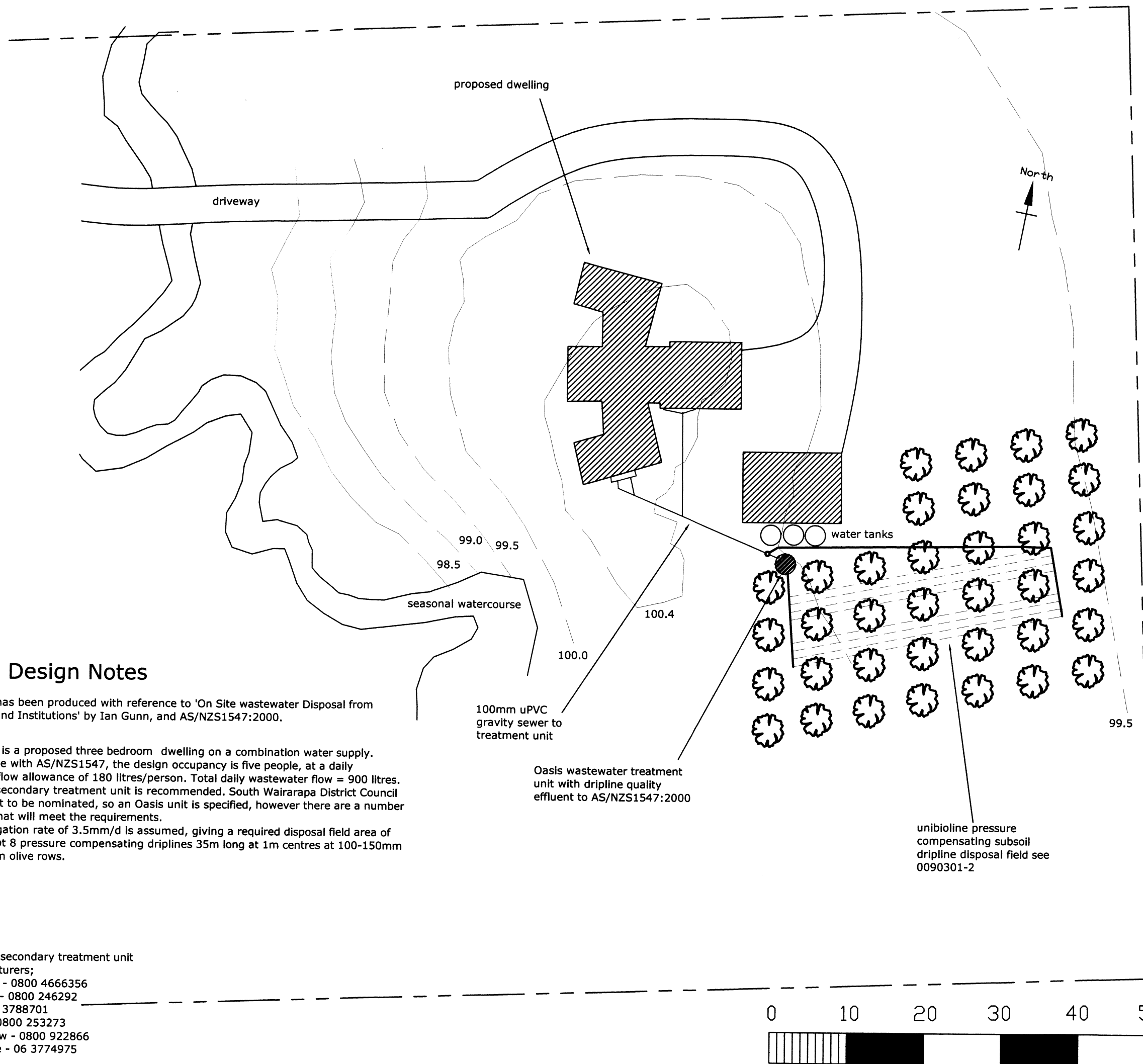
The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000\*.  
 The Design Firm is a member of ACENZ  YES  NO

SIGNED BY Andrew Duncan ..... ON BEHALF OF EQO New Zealand limited

Date 14/3/09 ..... (signature).....

Note: This statement shall only be relied upon by the ..... named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000\*.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.



### Design Notes

This design has been produced with reference to 'On Site wastewater Disposal from Households and Institutions' by Ian Gunn, and AS/NZS1547:2000.

The building is a proposed three bedroom dwelling on a combination water supply. In accordance with AS/NZS1547, the design occupancy is five people, at a daily wastewater flow allowance of 180 litres/person. Total daily wastewater flow = 900 litres. An aerated/secondary treatment unit is recommended. South Wairarapa District Council require a unit to be nominated, so an Oasis unit is specified, however there are a number of systems that will meet the requirements.

A design irrigation rate of 3.5mm/d is assumed, giving a required disposal field area of 260m<sup>2</sup>. Adopt 8 pressure compensating driplines 35m long at 1m centres at 100-150mm deep between olive rows.

Aerated/secondary treatment unit manufacturers;  
 Innoflow - 0800 4666356  
 Biocycle - 0800 246292  
 Oasis 06 3788701  
 Gould - 0800 253273  
 Enviroflow - 0800 922866  
 Ecowaste - 06 3774975

1. This drawing is to be read in conjunction with drawing 090301-2.
2. Contours are approximate.
3. General Operation and Maintenance  
 For the continued operation of the disposal field the following suggestions should be taken into account.
  - a) DO scrape all dishes to remove fats and grease.
  - b) DO keep all possible solids out of the system.
  - c) DON'T use garbage grinders.
  - d) DON'T pass sanitary napkins etc into the system.
  - e) DO conserve water.
  - f) DON'T use powerful bleaches or pour paint etc down the drain.
  - g) DO have the tank pumped out on a regular basis (every three to five years is average)
  - h) DO clean filters in accordance with the manufacturers' recommendations.
4. All fixtures, fittings, vent pipes, and other features required by the building code and not indicated on the drawings are to be fitted as standard by the drainlayer. All drainlaying work to be to G13/AS2, AS/NZS3500, or acceptable solutions under AS/NZS3500.2.2
5. Drainlayer should outline operation of the system to the homeowner, and show filter cleaning procedure etc where applicable.
6. All system components are to be sealed against ground and surface water infiltration.

## Frow Proposed dwelling Olive Grove

### Wastewater System Design

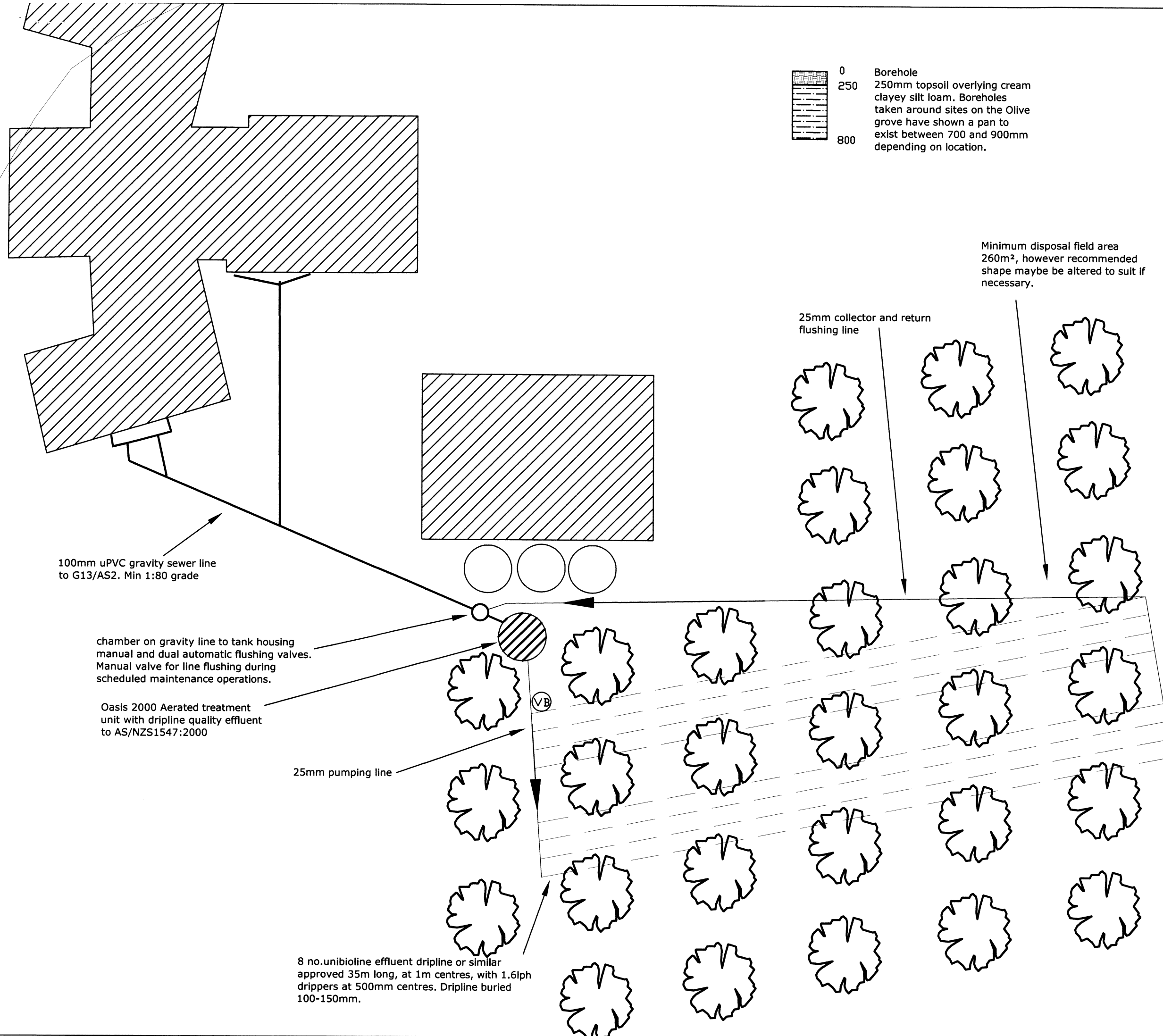
EQOnz limited  
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 e-mail: andy@eqo.org.nz

Date: 12/3/09

Drawn: AGD Revision: a

Scale: 1:500@A3

Drawing No.:  
090301-1



0 Borehole  
 250 250mm topsoil overlying cream clayey silt loam. Boreholes taken around sites on the Olive grove have shown a pan to exist between 700 and 900mm depending on location.  
 800

Minimum disposal field area 260m<sup>2</sup>, however recommended shape maybe be altered to suit if necessary.

**Notes**

1. This drawing is to be read in conjunction with drawing 090301-1.
2. All installation and maintenance operations should be carried out in accordance with the Irrigation Technology Services manual for Unibio dripline. Installer should be familiar with this type of work.
3. The pump should have a capability of 900 litres per hour at a total head of 17m.
4. A 25mm return line should be laid from the end of the disposal field back to the treatment unit. This line is flushed during pump operation at the scheduled service.
5. Pipes and fittings to comply with AS/NZS 4130 and AS/NZS4129 should be used.
6. In line strainers (150-200 mesh) should be provided on the pump discharge to protect dripline from solids carry-over.
7. One or more vacuum breakers shall be provided at high points of the disposal field.
8. Dripline to be buried at around 100mm cover.
9. Pre-commissioning tests, marking, and all other details to be in accordance with Appendix 4.5C of AS/NZS 1547:2000.
10. All other details to AS/NZS1547:2000
11. Invert of treatment unit to be set by minimum 1:80 fall from head of sewer.

(VB) Vacuum breaker to be installed at highest point in disposal field.

**Frow residence,  
 Olive grove**

**Wastewater System  
 Design**

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Date: 12/3/09  
 Drawn: AGD Revision: a  
 Scale: not to scale

**Drawing No.:**  
 090301-2