

Neil Rupp Plumbing

22 Eddleston Drive Cordelia QLD 4850

P.O. Box 50 Halifax QLD 4850

Ph 0427778163

ABN 5988674702 QBSA 043926

ON-SITE WASTEWATER DISPOSAL SYSTEM SITE AND SOIL EVALUATION REPORT

SITE INFORMATION

Client	Halifax Community Hall Male and Female Toilets
Property Location	32 Anderson Street, Halifax.
Description	Lot 119 SP112468
Parish	Cordelia
County	Cardwell

SITE EVALUATION

- * Ground cover is grass
- * There was no detection of underground water
- * There are no existing potable bores within 50 metres of the disposal area
- * There are no water courses within 50 metres of the disposal area
- * **Disposal area becomes waterlogged in times of large rainfall. So a HSTP must be used to pump into disposal area.**

Drawn by:

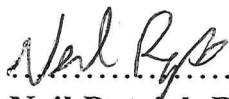
Neil Patrick Rupp

Ph: 0427778163

Plumber and Drainer License: 17221

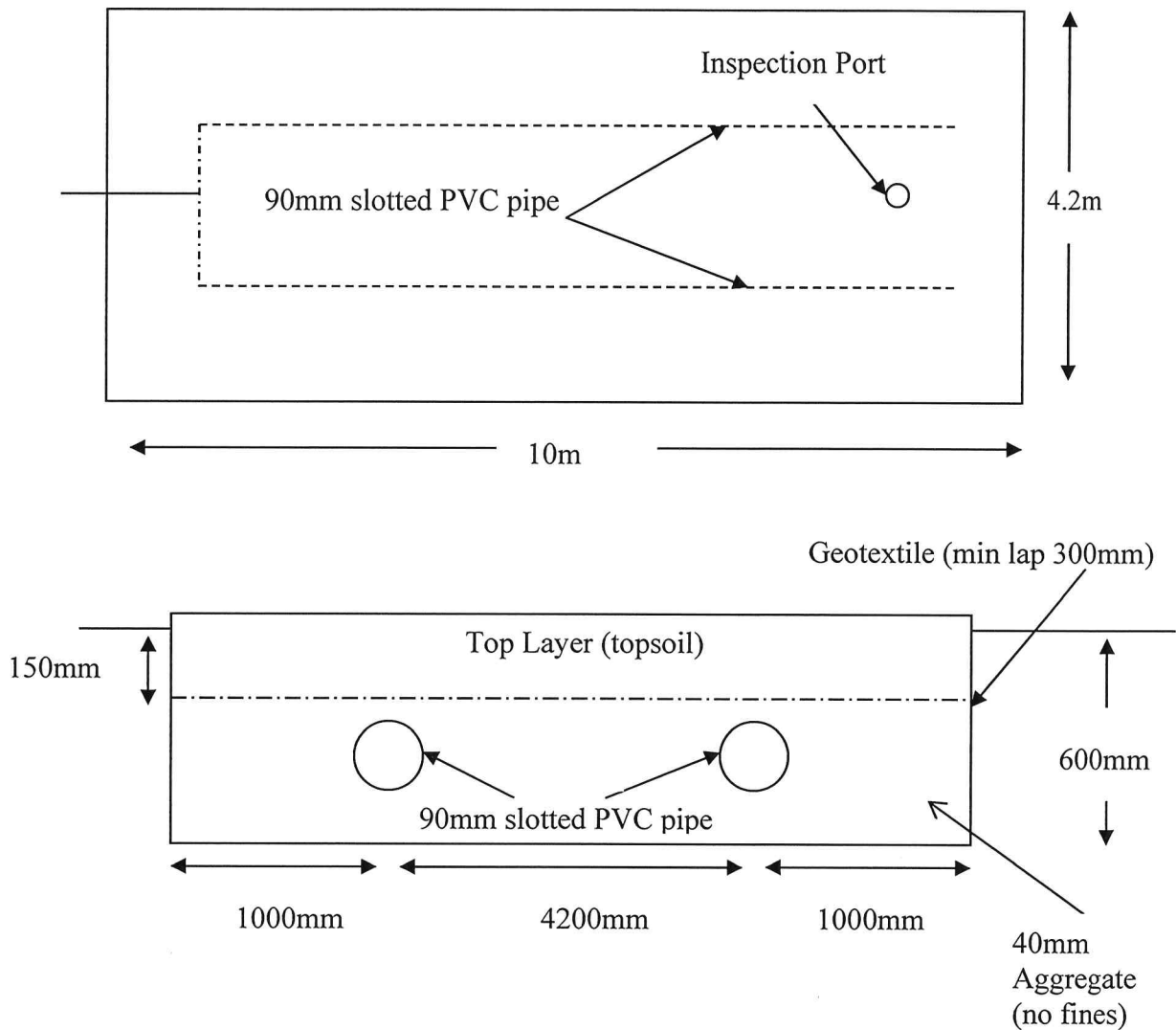
Date Drawn: 18/09/21

Drawing Number: 0137



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TRENCH / BED AREA



	Primary Effluent (Septic)	Secondary Effluent (HSTP)	Advanced Secondary (HSTP)
To bank of permanent water course	50m	30m	10m
To farm dams intermediate water course, drainage channels	60m	30m	20m
To a bore or well used for drinking water supply	50m	30m	10m
To a bore or well used for non drinking water supply	15m	15m	15m
Property boundaries, paths walkways, buildings		4m when lower than the disposal facility 2m when higher than the disposal facility	
Children's playing area	as above	15m is surface elevated	10m
Waters edge of swimming pool	6m	6m	6m

DESIGN ASSESSMENT

Allowable Number Persons	200 Persons per event (Females)
Daily Flow Allowance	30 litres per person
Estimated Event Flow	6000litres
Allowing for one event/week	6000~7 =857 litres/day average
Intended water Supply	Town water
Tank	HSTP

SOIL

Soil Texture	Sandy Loams
Structure	Massive
Design Loading Rate	20
Calculations	$\frac{857}{20} = 42.85 \text{ sqm}$

Bed Dimensions	4.2 x 10metres
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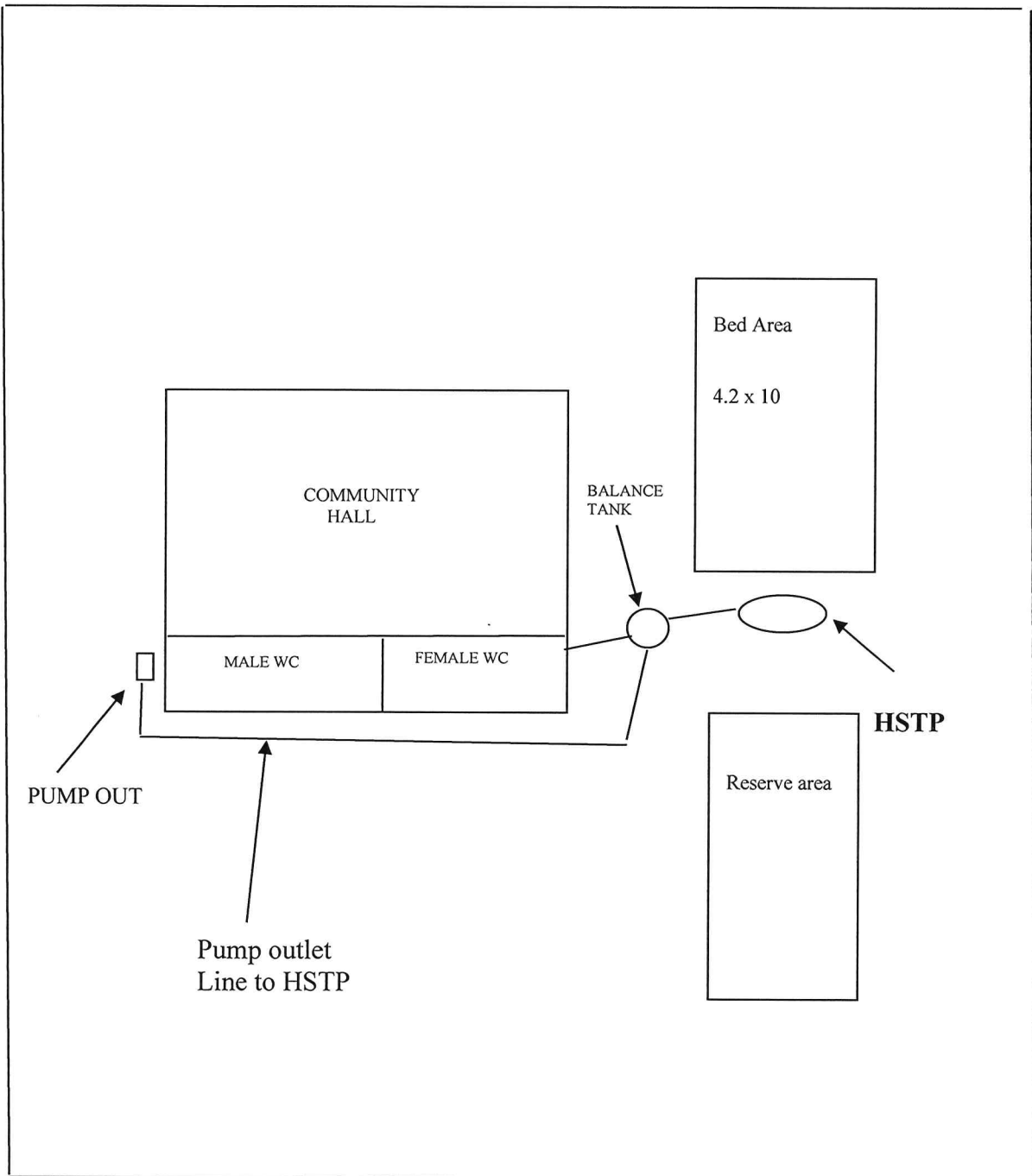
General Notes

- Bed dimentions may be changed to suit yard layout as long as squaremetreage is met
- The bed size has been calculated using **standard water reduction fixtures**
- The soil profile was determined by a test pit
- Inspection port to consist of 100mm PVC pipe sitting 100mm above the bottom of the bed and fitted with screwed cap to top, PVC pipe to be slotted below Geotextile
- This facility is designed to cater for a maximum of 200people
- The system has been designed for effluent usage of 857litres/day Maximum. **Excess usage may lead to failure of the system.**
This system was calculated using a larger DLR because there is plenty of land for a larger bed area.

This design has been designed in accordance with

- On-site domestic – Wastewater Management AS/NZS 1547
- Queensland Plumbing and Wastewater code and guidelines 2009
- Builders/ Homeowners site plans

SITE PLAN



Bed area to be 2 metres from
boundary's and buildings