

DATUM RL. -19.0

100yr ARI Post-Subsidence Flood Level (m RL)			19.532											13.704					
100yr ARI Pre-Subsidence Flood Level (m RL)			20.804											13.692					
Post-Subsidence Surface Level (m RL)	24.476	21.374	20.005	23.219	25.364	25.463	24.963	22.725	20.294	17.163	16.158	15.284	12.962	13.905	15.388	14.805	19.094	22.46	24.291
Pre-Subsidence Surface Level (m RL)	24.876	22.621	21.248	24.048	25.734	25.606	24.964	22.743	20.494	18.144	16.966	15.337	12.963	13.906	15.671	15.551	19.847	23.14	24.754
CHAINAGE	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	899.57

HORIZONTAL SCALE 1:5000 VERTICAL SCALE 1:500

PRELIMINARY

A	INITIAL ISSUE		
rev	description	app'd	date

Typical Cross-Section Through Black Hill Site



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scale for A3 job no. 21-16058
date October 2009 rev no. A

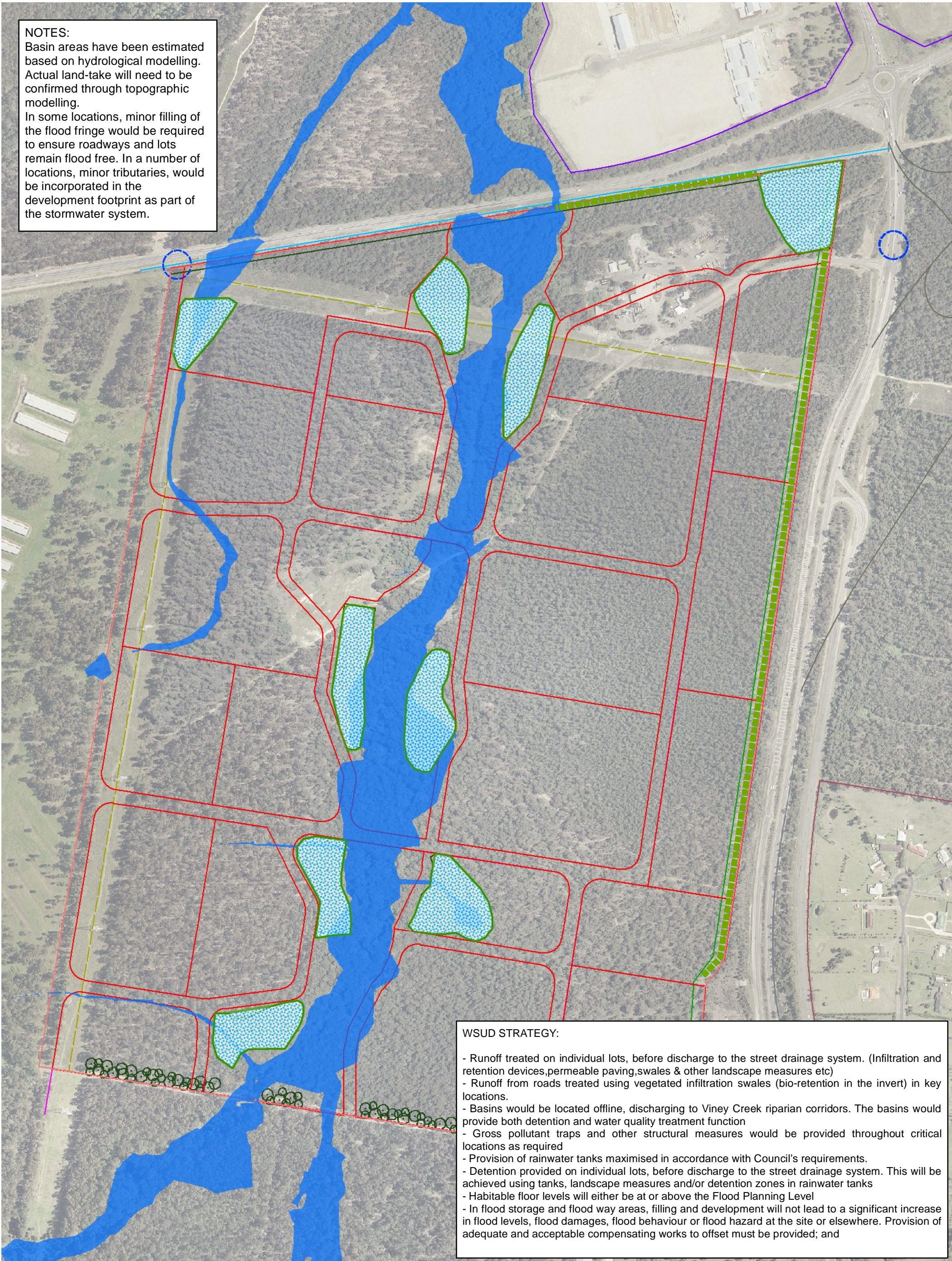
approved RB Figure 6



Appendix C

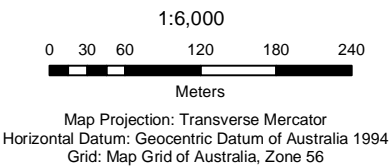
Water Sensitive Urban Design Strategy

NOTES:
Basin areas have been estimated based on hydrological modelling. Actual land-take will need to be confirmed through topographic modelling.
In some locations, minor filling of the flood fringe would be required to ensure roadways and lots remain flood free. In a number of locations, minor tributaries, would be incorporated in the development footprint as part of the stormwater system.



WSUD STRATEGY:

- Runoff treated on individual lots, before discharge to the street drainage system. (Infiltration and retention devices, permeable paving, swales & other landscape measures etc)
- Runoff from roads treated using vegetated infiltration swales (bio-retention in the invert) in key locations.
- Basins would be located offline, discharging to Viney Creek riparian corridors. The basins would provide both detention and water quality treatment function
- Gross pollutant traps and other structural measures would be provided throughout critical locations as required
- Provision of rainwater tanks maximised in accordance with Council's requirements.
- Detention provided on individual lots, before discharge to the street drainage system. This will be achieved using tanks, landscape measures and/or detention zones in rainwater tanks
- Habitable floor levels will either be at or above the Flood Planning Level
- In flood storage and flood way areas, filling and development will not lead to a significant increase in flood levels, flood damages, flood behaviour or flood hazard at the site or elsewhere. Provision of adequate and acceptable compensating works to offset must be provided; and



- Bio-Retention Swale
- Bioretention/Detention Basins
- 100-year ARI Flood Extents

Coal and Allied
Report for Lower Hunter Lands
Project - Phase 2
**Water Sensitive Urban
Design Strategy**

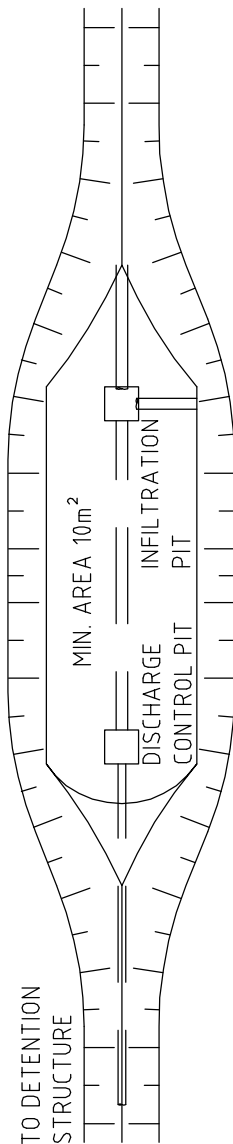
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Figure 1

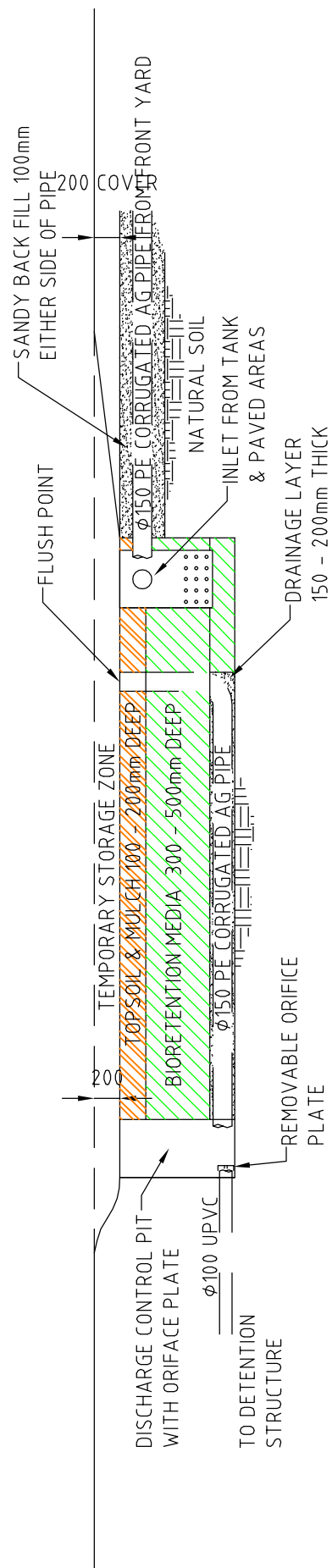


Appendix D

Typical on-lot Stormwater Management Configuration



SCALE 1:100



SCALE 1:200



CLIENTS | PEOPLE | PERFORMANCE

COAL & ALLIED
SOUTHERN ESTATES CATHERINE HILL
BIORETENTION AREA DETAIL

job no. 21-16058
rev no. A

scale NTS for A4 date OCTOBER 2007

Figure 1



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Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
Number of DRAFT Versions	R Berg	A number of internal reviews have taken place, on previous versions including a Client's review. Minor changes in all cases		R Berg		Jan, Feb, May Sep 2010
Review of Adequacy	R Berg	Client and Scott Fraser		R Berg		2010.10.23
Review of Adequacy	R Berg	Client and Scott Fraser	minor	R Berg		2011.01.18