

LEGEND

- PROPERTY BOUNDARY
- CADASTRAL BOUNDARY
- CONTOUR EXISTING (5.0m INTERVAL)
- CROWN ROAD EASEMENT
- BUFFER (DRAINAGE LINE - 25m)
- BUFFER (DRAINAGE LINE - 40m)
- MAPPED STREAM ORDER
- EFFLUENT REUSE AREA (PRIMARY 34.2 HA)
- EFFLUENT REUSE AREA (SECONDARY 10.2 HA)
- MANURE REUSE AREA (154.4 HA)
- VEGETATION SCREEN
- FEEDLOT
- FLOOD MODELLING (TAMWORTH REGIONAL COUNCIL)

NOTES:

- AERIAL IMAGE SOURCED THROUGH AUTOCAD MICROSOFT BING MAPPING. IMAGE ACCESS 07/10/2021, IMAGE DATE UNKNOWN.
- CADASTRAL BOUNDARIES & WATERCOURSE DATA LAYERS HAVE BEEN SOURCED FROM THE SEED PORTAL. DATA EXTRACTED 28/09/2021.
- EXISTING CONTOUR DATA OBTAINED FROM THE ELVIS PLATFORM OF PUBLICLY AVAILABLE LIDAR.
- FEATURES MAY HAVE BEEN DIGITISED FROM PLANS OR AERIAL PHOTOGRAPHS AND ACCURACY IS LIMITED.
- THE EXISTING FEEDLOT HAS A CAPACITY OF 1,000 HEAD AT A STOCKING DENSITY OF 12.85m<sup>2</sup>/HEAD
- THERE IS TO BE NO CHANGE TO THE CONTROLLED DRAINAGE AREA (CDA) OF THE EXISTING FACILITY.
- EFFLUENT MANAGEMENT
  - SEDIMENT BASIN: 2.5ML
  - EFFLUENT POND: 22.0ML.
- FLOOD INUNDATION AREA SOURCED FROM TAMWORTH REGIONAL COUNCIL (TRC) DEVELOPMENT CONTROL PLAN 2010-FLOOD AFFECTED LAND SHEET 6 OF 25.

FEEDLOT CAPACITY

ROW	CAPACITY-SCU <sup>1</sup> (@ 18.0m <sup>2</sup> /SCU <sup>2</sup> )	CAPACITY-HEAD <sup>1,3</sup> (0.81 SCU/HEAD)
EXISTING	810	1,000
ROW 1	405	500
ROW 2	675	835
ROW 3	675	835
ROW 4	675	835
COMBINED	3,240 SCU	4,000 HEAD <sup>4</sup>

<sup>1</sup>ROW CAPACITIES ROUNDED TO THE NEAREST 5 SCU/HEAD.  
<sup>2</sup>18.0m<sup>2</sup>/SCU IS THE AVERAGE ACROSS THE FEEDLOT.  
<sup>3</sup>CALCULATION BASED ON A 450KG EXIT WEIGHT.  
<sup>4</sup>CAPACITY OF 4,005 HEAD ROUNDED DOWN TO 4,000 HEAD.

CLIENT [REDACTED]	 AGRICULTURAL DEVELOPMENT SERVICES AUSTRALIA [REDACTED]	SCALE 0 100 200 300m SCALE 1:5,000 (A1) 1:10,000 (A3)	DESIGNED TJS	FINAL - FOR APPROVAL		JOB CODE BTC-001
PROJECT ANGORA FEEDLOT EXPANSION			CHECKED MRN			SHEET NUMBER A501
LOCATION RANNOCK BURN ROAD, RUSHES CREEK NSW 2346			PROJECT MANAGER MRN	11/11/2024 A1 4,000 HEAD CAPACITY - ORIGINAL ISSUE		CURRENT REVISION A1
SHEET TITLE PROPERTY PLAN - 4,000 HEAD (AERIAL IMAGERY)			MRN	DATE REV DESCRIPTION		REVISIONS













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  - BUFFER (DRAINAGE LINE – 25m)
  - BUFFER (DRAINAGE LINE – 40m)
  - MAPPED STREAM ORDER
  - CROWN ROAD EASEMENT
  - VEGETATION SCREEN
  - PEN FENCE
  - CATTLE LANE
  - FEED BUNK
  - EFFLUENT DRAIN
  - FEED ROAD
  - CLEAN WATER DIVERSION BANK
  - TRC FLOOD MODELLING

- NOTES:**
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  - EXISTING CONTOUR DATA OBTAINED FROM THE ELVIS PLATFORM OF PUBLICLY AVAILABLE LIDAR.
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  - THERE IS TO BE NO CHANGE TO THE CONTROLLED DRAINAGE AREA (CDA) OF THE EXISTING FACILITY.
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  - FLOOD INUNDATION AREA SOURCED FROM TAMWORTH REGIONAL COUNCIL (TRC) DEVELOPMENT CONTROL PLAN 2010–FLOOD AFFECTED LAND SHEET 6 OF 25.

- DESIGN: PENS**
- PENS 48.0 (W) x 52.5m (L) = 2,520 m²/PEN
  - STOCKING DENSITY = 18.7 m²/SCU
  - INDIVIDUAL PEN CAPACITY = 135 SCU
  - BUNK SPACE = 356 mm/SCU

FEEDLOT CAPACITY		
ROW	CAPACITY–SCU <sup>1</sup> (@ 18.0m²/SCU <sup>2</sup> )	CAPACITY–HEAD <sup>1,3</sup> (0.81 SCU/HEAD)
EXISTING	810	1,000
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<sup>2</sup>18.0m²/SCU IS THE AVERAGE ACROSS THE FEEDLOT.  
<sup>3</sup>CALCULATION BASED ON A 450KG EXIT WEIGHT.  
<sup>4</sup>CAPACITY OF 4,005 HEAD ROUNDED DOWN TO 4,000 HEAD.

CLIENT

PROJECT  
ANGORA FEEDLOT EXPANSION

LOCATION  
RANNOCK BURN ROAD, RUSHES CREEK NSW 2346

SHEET TITLE  
DESIGN PLAN – 4,000 HEAD

AGRICULTURAL DEVELOPMENT  
SERVICES AUSTRALIA

SCALE

SCALE 1:3,000 (A1) 1:6,000 (A3)

DESIGNED  
TJS

CHECKED  
MRN

PROJECT MANAGER  
MRN

FINAL – FOR APPROVAL

11/11/2024	A1	4,000 HEAD CAPACITY – ORIGINAL ISSUE	MRN
DATE	REV	DESCRIPTION	APP

REVISIONS

JOB CODE  
BTC–001

SHEET NUMBER  
A504

CURRENT REVISION  
A1





CATTLE HANDLING →

FEEDLOT EXPANSION  
STOCKING DENSITY: 18.7m<sup>2</sup>/SCU  
PEN CAPACITY: 135 SCU  
ADDITIONAL PENS: 18  
TOTAL CAPACITY: 2,430 SCU

SEDIMENT BASIN  
VOLUME: 2.5ML  
AVG. DEPTH: 0.9m

EXISTING FEEDLOT &  
FEED PREPARATION

## CATTLE HANDLING














MANUF  
PAD  
0.7h

MORTALITY  
COMPOSTING

—EMERGENCY  
BYWASH

—EFFLUENT POND  
VOLUME: 22.0ML  
AVG. DEPTH: 1.5m






LEGEND

- |   |                                  |
|---|----------------------------------|
|  | CONTOUR EXISTING (5.0m INTERVAL) |
|  | BUFFER (DRAINAGE LINE – 25m)     |
|  | BUFFER (DRAINAGE LINE – 40m)     |
|  | MAPPED STREAM ORDER              |
|  | CROWN ROAD EASEMENT              |
|  | PEN FENCE                        |
|  | CATTLE LANE                      |
|  | FEED BUNK                        |
|  | EFFLUENT DRAIN                   |
|  | FEED ROAD                        |
|  | CLEAN WATER DIVERSION BANK       |
|  | CATCHMENT BOUNDARY               |
|  | MAXIMUM DRAIN LENGTH (370m)      |

NOTES:

1. CATCHMENT BOUNDARIES HAVE BEEN DETERMINED USING THE PUBLICLY AVAILABLE LIDAR THAT COVERS THE SITE DEVELOPMENT.
2. THE CATCHMENT OF THE ORIGINAL FEEDLOT HAS BEEN EXCLUDED AS THERE WILL BE NO CHANGE TO THE PREVIOUSLY APPROVED PENS & EFFLUENT HOLDING POND.
3. FEATURES MAY HAVE BEEN DIGITISED FROM PLANS OR AERIAL PHOTOGRAPHS AND ACCURACY IS LIMITED.
4. THE REQUIRED SEDIMENTATION BASIN AND EFFLUENT HOLDING POND CAPACITIES HAVE BEEN DETERMINED IN ACCORDANCE WITH THE NSW FEEDLOT GUIDELINES. THE INPUT DATA USED FOR THE SPREADSHEET CALCULATIONS IS CONSISTENT WITH THE CATCHMENT DETAILS PROVIDED IN THIS DRAWING AND THE EFFLUENT REUSE AREAS OUTLINED IN A001.
5. THE COVERED FEEDLOT PENS (SHEDS 1 & 2) ARE TO BE MANAGED TO EXCLUDE RAINFALL AND THEREFORE AVOID EFFLUENT GENERATION. AS SUCH THIS ARE HAS BEEN EXCLUDED FROM THE CONTROLLED DRAINAGE AREA THAT DRAINS INTO THE SEDIMENTATION BASIN AND EFFLUENT HOLDING POND.

## CONTROLLED DRAINAGE AREA

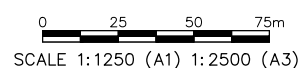
	PEN AREA	=	4.54 ha
	SOFT AREA	=	1.99 ha
	HARD AREA:	=	5.56 ha
	MANURE PAD AREA:	=	0.84 ha
	BASIN AREA	=	0.27 ha
	POND AREA	=	1.56 ha
	TOTAL CATCHMENT	=	14.76 ha

CLIENT	
PROJECT	ANGORA FEEDLOT EXPANSION
LOCATION	RANNOCK BURN ROAD, RUSHES CREEK NSW 2346
SHEET TITLE	CONTROLLED DRAINAGE PLAN – 4,000 HEAD



AGRICULTURAL DEVELOPMENT  
SERVICES AUSTRALIA

SCALE



DESIGNED	
TJS	

CHECKED
MRN

PROJECT MANAGER
MRN

FINAL – FOR APPROVAL

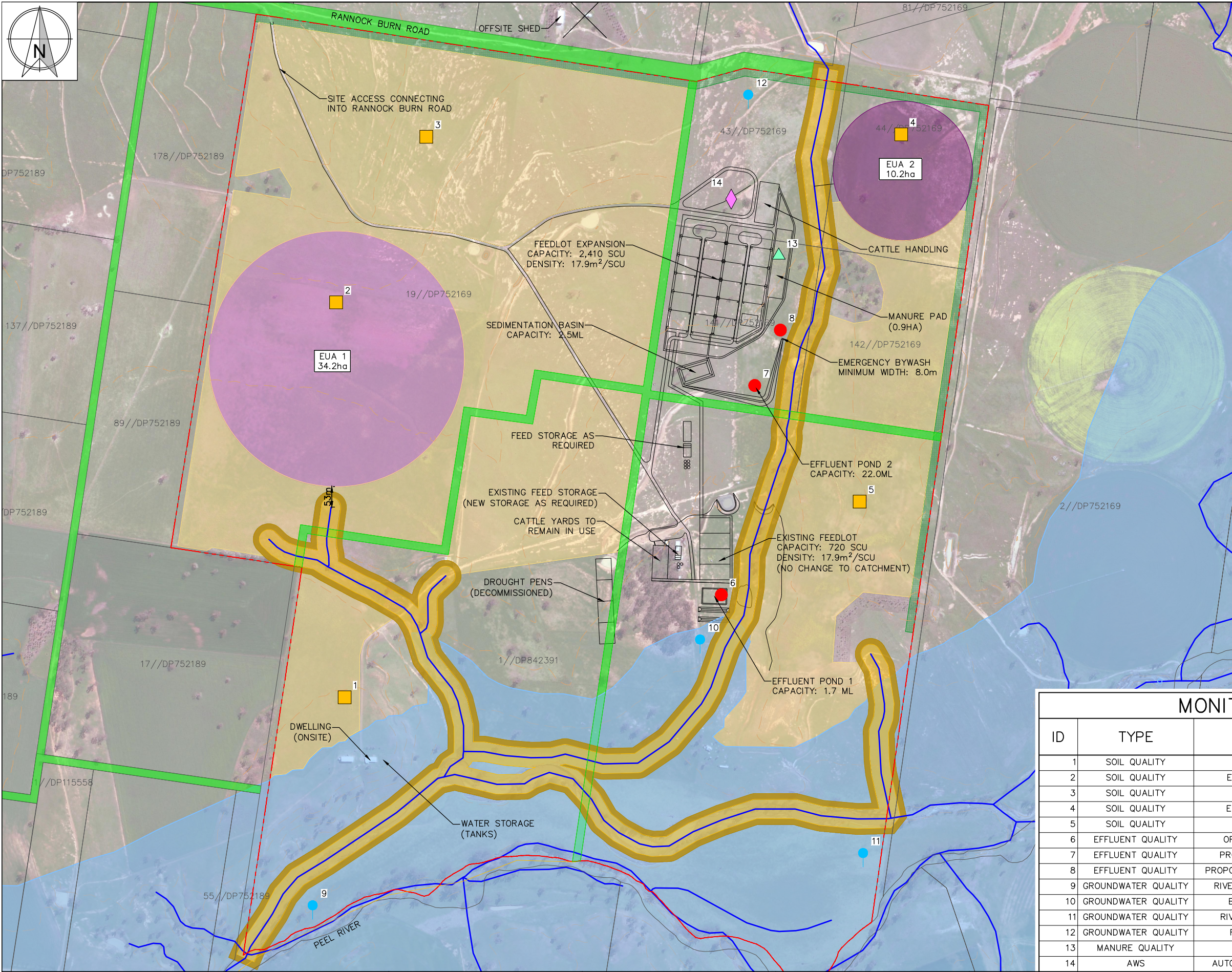
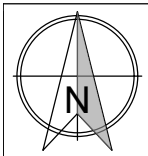
11/11/2024	A1	4,000 HEAD CAPACITY – ORIGINAL ISSUE
DATE	REV	DESCRIPTION
		REVISIONS

JOB CODE	BTC-001
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SHEET NUMBER  
A505

CURRENT REVISION	A1
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### LEGEND


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- CADASTRAL BOUNDARY
- CONTOUR EXISTING (5.0m INTERVAL)
- CROWN ROAD EASEMENT
- BUFFER (DRAINAGE LINE – 25m)
- BUFFER (DRAINAGE LINE – 40m)
- MAPPED STREAM ORDER
- EFFLUENT REUSE AREA (PRIMARY 34.2 HA)
- EFFLUENT REUSE AREA (SECONDARY 10.2 HA)
- MANURE REUSE AREA (154.4 HA)
- VEGETATION SCREEN
- TRC FLOOD MODELLING
- MANURE QUALITY MASS MONITORING
- SOIL QUALITY MASS MONITORING
- EFFLUENT QUALITY MONITORING
- GROUNDWATER QUALITY MONITORING
- AUTOMATED WEATHER STATION

### NOTES:

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### MONITORING POINTS

ID	TYPE	DESCRIPTION	EASTING (mE)	NORTHING (mN)
1	SOIL QUALITY	PASTURE AREA	265694	6575857
2	SOIL QUALITY	EUA 1 IRRIGATION AREA	265672	6576877
3	SOIL QUALITY	PASTURE AREA	265905	6577305
4	SOIL QUALITY	EUA 2 IRRIGATION AREA	267132	6577311
5	SOIL QUALITY	PASTURE AREA	267024	6576363
6	EFFLUENT QUALITY	ORIGINAL EFFLUENT POND	26667	6576122
7	EFFLUENT QUALITY	PROPOSED EFFLUENT POND	266753	6576662
8	EFFLUENT QUALITY	PROPOSED EFFLUENT POND SPILL	266819	6576806
9	GROUNDWATER QUALITY	RIVER FLATS DOWN GRADIENT	265611	6575308
10	GROUNDWATER QUALITY	BELOW EFFLUENT POND	266612	6575994
11	GROUNDWATER QUALITY	RIVER FLATS UP GRADIENT	267033	6575443
12	GROUNDWATER QUALITY	FEEDLOT UP GRADIENT	266736	6577401
13	MANURE QUALITY	MANURE PAD	266815	6576998
14	AWS	AUTOMATED WEATHER STATION	266679	6577374

CLIENT [REDACTED]	 AGRICULTURAL DEVELOPMENT SERVICES AUSTRALIA [REDACTED]	SCALE  0 100 200 300m SCALE 1:5,000 (A1) 1:10,000 (A3)	DESIGNED TJS	FINAL – FOR APPROVAL			JOB CODE BTC-001	
PROJECT ANGORA FEEDLOT EXPANSION		[REDACTED]	CHECKED MRN	[REDACTED]			SHEET NUMBER A508	
LOCATION RANNOCK BURN ROAD, RUSHES CREEK NSW 2346			PROJECT MANAGER MRN	[REDACTED]			CURRENT REVISION A1	
SHEET TITLE ENVIRONMENTAL MONITORING PLAN – 4,000 HEAD				11/11/2024	A1	4,000 HEAD CAPACITY – ORIGINAL ISSUE	MRN	APP
				REVISIONS				





LEGEND

- PROPERTY BOUNDARY
- CADASTRAL BOUNDARY
- CONTOUR EXISTING (5.0m INTERVAL)
- CROWN ROAD EASEMENT
- MAPPED STREAM ORDER
- PROPOSED 8m WIDE ROAD CORRIDOR
- SURVEYED TREES

NOTES:

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- TREE LOCATIONS ALONG ROAD CORRIDOR HAVE BEEN SURVEYED AND GROUND TRUTHED.


DESIGN: ROAD CORRIDOR

- ROAD WIDTH = 6.0 m
- CORRIDOR WIDTH = 8.0 m

CLIENT
PROJECT
ANGORA FEEDLOT EXPANSION
LOCATION
RANNOCK BURN ROAD, RUSHES CREEK NSW 2346
SHEET TITLE
ROAD UPGRADE – 4,000 HEAD



AGRICULTURAL DEVELOPMENT  
SERVICES AUSTRALIA

SCALE

SCALE 1:2,500 (A1) 1:5,000 (A3)

DESIGNED	FINAL – FOR APPROVAL			
TJS				
CHECKED				
MRN				
PROJECT MANAGER	11/11/2024	A1	4,000 HEAD CAPACITY – ORIGINAL ISSUE	MRN
MRN	DATE	REV	DESCRIPTION	APP
REVISIONS				

JOB CODE
BTC–001
SHEET NUMBER
A509
CURRENT REVISION
A1