

APPENDIX 1

Certificates of Titles and Historical Search

Reserve Details Report -47127

Reserve	47127	Legal Area (ha)	6.5157
Name	N/A	Status	CURRENT
Type	N/A	Current Purpose	HERITAGE PLACE
File Number	50026-2003-01RO		
Notes	WITH POWER TO LEASE FOR ANY TERM		
Additional Reserve Information	RESERVE COMPRISES LOT 2860 ON DP36230 & LOT 561 ON DP68077 (L508044)		

Class	Responsible Agency	Date of Last Change
C	THE NATIONAL TRUST OF AUSTRALIA (W.A.)	12/05/2011

Management Order	Document Number
THE NATIONAL TRUST OF AUSTRALIA (WA)	L618140

Land Use
RAILWAY

Local Government Authority
SHIRE OF COLLIE

CLT Number	Parcel Identifier	Street Address, Suburb	File Number	PIN	Area (m ²)
LR3130/831	Lot 2860 On Deposited Plan 36230	No Street Address Information Available	50026-2003-01RO	11136200	3512
LR3159/771	Lot 561 On Deposited Plan 68077	No Street Address Information Available	50026-2003-01RO	11897009	61645

Previous Certificates of Title	Status
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Document Number/Gazette Page	Date	Type	Text
L618138	04/05/2011	Vesting Revoked	REVOKED
L618138	04/05/2011	Vesting Revoked	REVOKED
L618139	04/05/2011	Current Purpose	HERITAGE PLACE
L618140	04/05/2011	Current Vesting	MANAGEMENT ORDER THE NATIONAL TRUST OF AUSTRALIA (WA)

Document Number/Gazette Page	Date	Type	Text
L618140	04/05/2011	Historical Vesting	MANAGEMENT ORDER THE NATIONAL TRUST OF AUSTRALIA (WA)
L546505	04/02/2011	Vesting Revoked	REVOKED
L546505	04/02/2011	Vesting Revoked	REVOKED
L546506	04/02/2011	Historical Responsible Agency	DEPARTMENT OF REGIONAL DEVELOPMENT AND LANDS (SLSD)
L546506	04/02/2011	Historical Vesting	MANAGEMENT ORDER THE NATIONAL TRUST OF AUSTRALIA (WA)
L508044	15/12/2010	Current Area	6.5157
I578379	04/08/2003	Correspondence File Number	50026-2003-01RO
I578379	04/08/2003	Historical Area	5.5296 HA
I578379	04/08/2003	Historical Purposes	MINIATURE RAILWAY
I578379	04/08/2003	Lot/Town Lot	COLLIE LOTS 2858,2860.
I578379	04/08/2003	Public Plan	NO RECORD
I578379	04/08/2003	Street Name	COALFIELDS ROAD
I578380	04/08/2003	Historical Vesting	MANAGEMENT ORDER COLLIE RAILWAY STATION GROUP INC
N/A	04/08/2003	Class	C
N/A	04/08/2003	Survey Number	DP 36230

date: May 1, 2020, 1:53:14 PM

Reserve Details Report -10519

Reserve	10519	Legal Area (ha)	11.5628
Name	N/A	Status	CURRENT
Type	N/A	Current Purpose	RAILWAY
File Number	00793-1998-01RO 02488-1904-01RO (I578373)		
Notes	N/A		
Additional Reserve Information	N/A		

Class	Responsible Agency	Date of Last Change
C	PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA	06/04/2004

Management Order	Document Number
VEST: PUBLIC TRANSPORT AUTHORITY OF WA	I578374

Land Use
RAILWAY

Local Government Authority
SHIRE OF COLLIE

CLT Number	Parcel Identifier	Street Address, Suburb	File Number	PIN	Area (m ²)
LR3112/115	Lot 2830 On Deposited Plan 220024	No Street Address Information Available	00793-1998-01RO	1262416	40249.218
LR3131/613	Lot 2865 On Deposited Plan 37770	No Street Address Information Available	00793-1998-01RO	11183514	7343
LR3131/630	Lot 2882 On Deposited Plan 37770	No Street Address Information Available	00793-1998-01RO	11183531	54909
LR3131/634	Lot 2886 On Deposited Plan 37771	No Street Address Information Available	00793-1998-01RO	11183575	13105

Previous Certificates of Title	Status
LR3031/191	Cancelled

Document Number/Gazette Page	Date	Type	Text
I833173	26/03/2004	Historical Area	16.4646

Document Number/Gazette Page	Date	Type	Text
I833174	26/03/2004	Current Area	11.5628
I833174	26/03/2004	Lot/Town Lot	LOT 2830 ON DP220024 (I578373) LOTS 2865 & 2882 ON DP37770 (I833173) LOT 2886 ON DP37771
N/A	26/03/2004	Previous Lot/Locations	LOT 2873 ON DP37770 LOT 2859 ON DP36230
N/A	26/03/2004	Survey Number	SEE LOT INFORMATION
I578373	04/08/2003	Historical Area	20.4648
I578374	04/08/2003	Current Vesting	VEST: PUBLIC TRANSPORT AUTHORITY OF WA
N/A	04/08/2003	Previous Lot/Locations	LOTS 2828 & 2829 ON DP220024
16	20/03/2002	Correspondence File Number	00793-1998-01RO 02488-1904-01RO (I578373)
I046298	18/03/2002	Historical Area	32.4023
1390	05/05/1989	Historical Area	REDUCED BY 1.3544
N/A	05/05/1989	Comment	NOT GAZETTED RESERVE
N/A	05/05/1989	Public Plan	COLLIE (02) 30.29, 30.30. 31.29 AND 32.29
1674	15/06/1951	Historical Area	INCLUDE PTN OF CLOSED ROAD
16	05/01/1951	Historical Area	INCLUDE PTN OF RESERVE 22218
16	05/01/1919	Class	C
16	05/01/1919	Original Gazettal and page	ORIGINAL GAZETTE
16	05/01/1919	Previous Lot/Locations	COLLIE LOT 1068, WELLINGTON LOC 5859
16	05/01/1919	Street Name	FORREST STREET
N/A	05/01/1919	Current Purpose	RAILWAY

date: May 1, 2020, 1:56:42 PM

Reserve Details Report -36584

Reserve	36584	Legal Area (ha)	15.3798
Name	N/A	Status	CURRENT
Type	N/A	Current Purpose	RAILWAY PURPOSES
File Number	2032/49V2		
Notes	N/A		
Additional Reserve Information	RESERVE COMPRISES LOT 2856 ON DP36230 & LOT 560 ON DP68077 (L508043)		

Class	Responsible Agency	Date of Last Change
C	PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA	16/03/2011

Management Order	Document Number
VEST: PUBLIC TRANSPORT AUTHORITY OF WA	I578377

Land Use
RAILWAY

Local Government Authority
SHIRE OF COLLIE

CLT Number	Parcel Identifier	Street Address, Suburb	File Number	PIN	Area (m ²)
LR3130/827	Lot 2856 On Deposited Plan 36230	No Street Address Information Available	2032-1949-02RO.	11136196	96373
LR3159/770	Lot 560 On Deposited Plan 68077	No Street Address Information Available	02032-1949-03RO	11897008	57425

Previous Certificates of Title	Status
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Document Number/Gazette Page	Date	Type	Text
L508043	15/12/2010	Current Area	15.3798
I578376	04/08/2003	Historical Area	16.3752
I578376	04/08/2003	Location	COLLIE LOTS 2856 & 2857
I578377	04/08/2003	Current Vesting	VEST: PUBLIC TRANSPORT AUTHORITY OF WA
N/A	04/08/2003	Survey Number	OP:14264, DP 36230

Document Number/Gazette Page	Date	Type	Text
1457	09/05/1980	Original Gazettal and page	ORIGINAL GAZETTE
N/A	09/05/1980	Class	C
N/A	09/05/1980	Current Purpose	RAILWAY PURPOSES
N/A	09/05/1980	Correspondence File Number	2032/49V2
N/A	09/05/1980	Historical Area	9.9405
N/A	09/05/1980	Previous Lot/Locations	WELLINGTON LOC 5247
N/A	09/05/1980	Public Plan	COLLIE 02 30.29,30.30,31.29
N/A	09/05/1980	Street Name	FORREST ST

date: May 1, 2020, 1:54:02 PM

WESTERN



AUSTRALIA

REGISTER NUMBER 2856/DP36230	
DUPLICATE EDITION N/A	DATE DUPLICATE ISSUED N/A

RECORD OF QUALIFIED CERTIFICATE

VOLUME **LR3130** FOLIO **827**

**OF
CROWN LAND TITLE**
 UNDER THE TRANSFER OF LAND ACT 1893
 AND THE LAND ADMINISTRATION ACT 1997
NO DUPLICATE CREATED

The undermentioned land is Crown land in the name of the STATE OF WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.



REGISTRAR OF TITLES

LAND DESCRIPTION:

LOT 2856 ON DEPOSITED PLAN 36230

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE UNDER MANAGEMENT ORDER

PRIMARY INTEREST HOLDER: PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA OF PO BOX 8125, PERTH

(XE I578377) REGISTERED 4/8/2003

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

- RESERVE 36584 FOR THE PURPOSE OF RAILWAY PURPOSES
I578377 MANAGEMENT ORDER. CONTAINS CONDITIONS TO BE OBSERVED. REGISTERED 4/8/2003.
- O329341 CAVEAT BY AUSTRALIA WESTERN RAILROAD PTY LTD AS TO PORTION ONLY LODGED 22/1/2020.

- Warning:
- (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
 - (2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.
 - (3) The interests etc. shown hereon may have a different priority than shown.

-----END OF CERTIFICATE OF CROWN LAND TITLE-----

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: DP36230
 PREVIOUS TITLE: LR3130-827
 PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.

END OF PAGE 1 - CONTINUED OVER

ORIGINAL CERTIFICATE OF CROWN LAND TITLE
QUALIFIED

REGISTER NUMBER: 2856/DP36230

VOLUME/FOLIO: LR3130-827

PAGE 2

LOCAL GOVERNMENT AUTHORITY:

SHIRE OF COLLIE

RESPONSIBLE AGENCY:

PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA

NOTE 1: A000001A CORRESPONDENCE FILE 2032-1949-02RO.

NOTE 2: LAND PARCEL IDENTIFIER OF COLLIE TOWN LOT/LOT 2856 ON SUPERSEDED PAPER CERTIFICATE OF CROWN LAND TITLE CHANGED TO LOT 2856 ON DEPOSITED PLAN 36230 ON 23-SEP-04 TO ENABLE ISSUE OF A DIGITAL CERTIFICATE OF TITLE.

NOTE 3: THE ABOVE NOTE MAY NOT BE SHOWN ON THE SUPERSEDED PAPER CERTIFICATE OF TITLE.

WESTERN



AUSTRALIA

REGISTER NUMBER 2860/DP36230	
DUPLICATE EDITION N/A	DATE DUPLICATE ISSUED N/A

RECORD OF QUALIFIED CERTIFICATE
OF
CROWN LAND TITLE

VOLUME FOLIO
LR3130 831

UNDER THE TRANSFER OF LAND ACT 1893
AND THE LAND ADMINISTRATION ACT 1997
NO DUPLICATE CREATED

The undermentioned land is Crown land in the name of the STATE OF WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.



REGISTRAR OF TITLES

LAND DESCRIPTION:

LOT 2860 ON DEPOSITED PLAN 36230

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE UNDER MANAGEMENT ORDER

PRIMARY INTEREST HOLDER: THE NATIONAL TRUST OF AUSTRALIA (WA) OF PO BOX 1162, WEST PERTH
(XE L618140) REGISTERED 4/5/2011

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1. I578379 RESERVE 47127 FOR THE PURPOSE OF MINIATURE RAILWAY REGISTERED 4/8/2003.
L618139 CHANGE OF RESERVE PURPOSE. PURPOSE CHANGED TO HERITAGE PLACE REGISTERED 4/5/2011.
L618140 MANAGEMENT ORDER. CONTAINS CONDITIONS TO BE OBSERVED. WITH POWER TO LEASE FOR ANY TERM. REGISTERED 4/5/2011.

- Warning:
- (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
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-----END OF CERTIFICATE OF CROWN LAND TITLE-----

STATEMENTS:

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SKETCH OF LAND: DP36230
PREVIOUS TITLE: LR3113-590
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AUTHORITY: SHIRE OF COLLIE

END OF PAGE 1 - CONTINUED OVER

ORIGINAL CERTIFICATE OF CROWN LAND TITLE
QUALIFIED

REGISTER NUMBER: 2860/DP36230

VOLUME/FOLIO: LR3130-831

PAGE 2

RESPONSIBLE AGENCY:

THE NATIONAL TRUST OF AUSTRALIA (W.A.)

NOTE 1: A000001A LAND PARCEL IDENTIFIER OF COLLIE TOWN LOT/LOT 2860 ON SUPERSEDED PAPER CERTIFICATE OF CROWN LAND TITLE CHANGED TO LOT 2860 ON DEPOSITED PLAN 36230 ON 23-SEP-04 TO ENABLE ISSUE OF A DIGITAL CERTIFICATE OF TITLE.

NOTE 2: THE ABOVE NOTE MAY NOT BE SHOWN ON THE SUPERSEDED PAPER CERTIFICATE OF TITLE.

NOTE 3: L546505 CORRESPONDENCE FILE 50026-2003-01RO

WESTERN



AUSTRALIA

REGISTER NUMBER 560/DP68077	
DUPLICATE EDITION N/A	DATE DUPLICATE ISSUED N/A

RECORD OF QUALIFIED CERTIFICATE
OF
CROWN LAND TITLE
UNDER THE TRANSFER OF LAND ACT 1893
AND THE LAND ADMINISTRATION ACT 1997
NO DUPLICATE CREATED

VOLUME FOLIO
LR3159 770

The undermentioned land is Crown land in the name of the STATE OF WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.



REGISTRAR OF TITLES

LAND DESCRIPTION:

LOT 560 ON DEPOSITED PLAN 68077

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE UNDER MANAGEMENT ORDER

PRIMARY INTEREST HOLDER: PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA OF PO BOX
8125, PERTH

(XE I578377) REGISTERED 4/8/2003

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

- L508043 RESERVE 36584 FOR THE PURPOSE OF RAILWAY PURPOSES REGISTERED 15/12/2010.
I578377 MANAGEMENT ORDER. CONTAINS CONDITIONS TO BE OBSERVED. REGISTERED
4/8/2003.
- O329341 CAVEAT BY AUSTRALIA WESTERN RAILROAD PTY LTD AS TO PORTION ONLY LODGED
22/1/2020.

- Warning:
- (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
 - (2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.
 - (3) The interests etc. shown hereon may have a different priority than shown.

-----END OF CERTIFICATE OF CROWN LAND TITLE-----

STATEMENTS:

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SKETCH OF LAND: DP68077
PREVIOUS TITLE: LR3130-828
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.

END OF PAGE 1 - CONTINUED OVER

ORIGINAL CERTIFICATE OF CROWN LAND TITLE
QUALIFIED

REGISTER NUMBER: 560/DP68077

VOLUME/FOLIO: LR3159-770

PAGE 2

LOCAL GOVERNMENT AUTHORITY:

SHIRE OF COLLIE

RESPONSIBLE AGENCY:

PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA

NOTE 1: A000001A CORRESPONDENCE FILE 02032-1949-03RO

WESTERN



AUSTRALIA

REGISTER NUMBER 561/DP68077	
DUPLICATE EDITION N/A	DATE DUPLICATE ISSUED N/A

RECORD OF QUALIFIED CERTIFICATE

VOLUME **LR3159** FOLIO **771**

OF
CROWN LAND TITLE
 UNDER THE TRANSFER OF LAND ACT 1893
 AND THE LAND ADMINISTRATION ACT 1997
NO DUPLICATE CREATED

The undermentioned land is Crown land in the name of the STATE OF WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.



REGISTRAR OF TITLES

LAND DESCRIPTION:

LOT 561 ON DEPOSITED PLAN 68077

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE UNDER MANAGEMENT ORDER

PRIMARY INTEREST HOLDER: THE NATIONAL TRUST OF AUSTRALIA (WA) OF PO BOX 1162, WEST PERTH (XE L618140) REGISTERED 4/5/2011

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

- L508044 RESERVE 47127 FOR THE PURPOSE OF MINIATURE RAILWAY REGISTERED 15/12/2010.
L618139 CHANGE OF RESERVE PURPOSE. PURPOSE CHANGED TO HERITAGE PLACE REGISTERED 4/5/2011.
L618140 MANAGEMENT ORDER. CONTAINS CONDITIONS TO BE OBSERVED. WITH POWER TO LEASE FOR ANY TERM. REGISTERED 4/5/2011.
- M917080 MEMORIAL. CONTAMINATED SITES ACT 2003 REGISTERED 19/2/2015.

- Warning:
- (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
 - (2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.
 - (3) The interests etc. shown hereon may have a different priority than shown.

-----END OF CERTIFICATE OF CROWN LAND TITLE-----

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: DP68077
 PREVIOUS TITLE: LR3130-828, LR3130-829
 PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.

END OF PAGE 1 - CONTINUED OVER

Subject to dealing

ORIGINAL CERTIFICATE OF CROWN LAND TITLE
QUALIFIED

REGISTER NUMBER: 561/DP68077

VOLUME/FOLIO: LR3159-771

PAGE 2

LOCAL GOVERNMENT AUTHORITY:

SHIRE OF COLLIE

RESPONSIBLE AGENCY:

THE NATIONAL TRUST OF AUSTRALIA (W.A.)

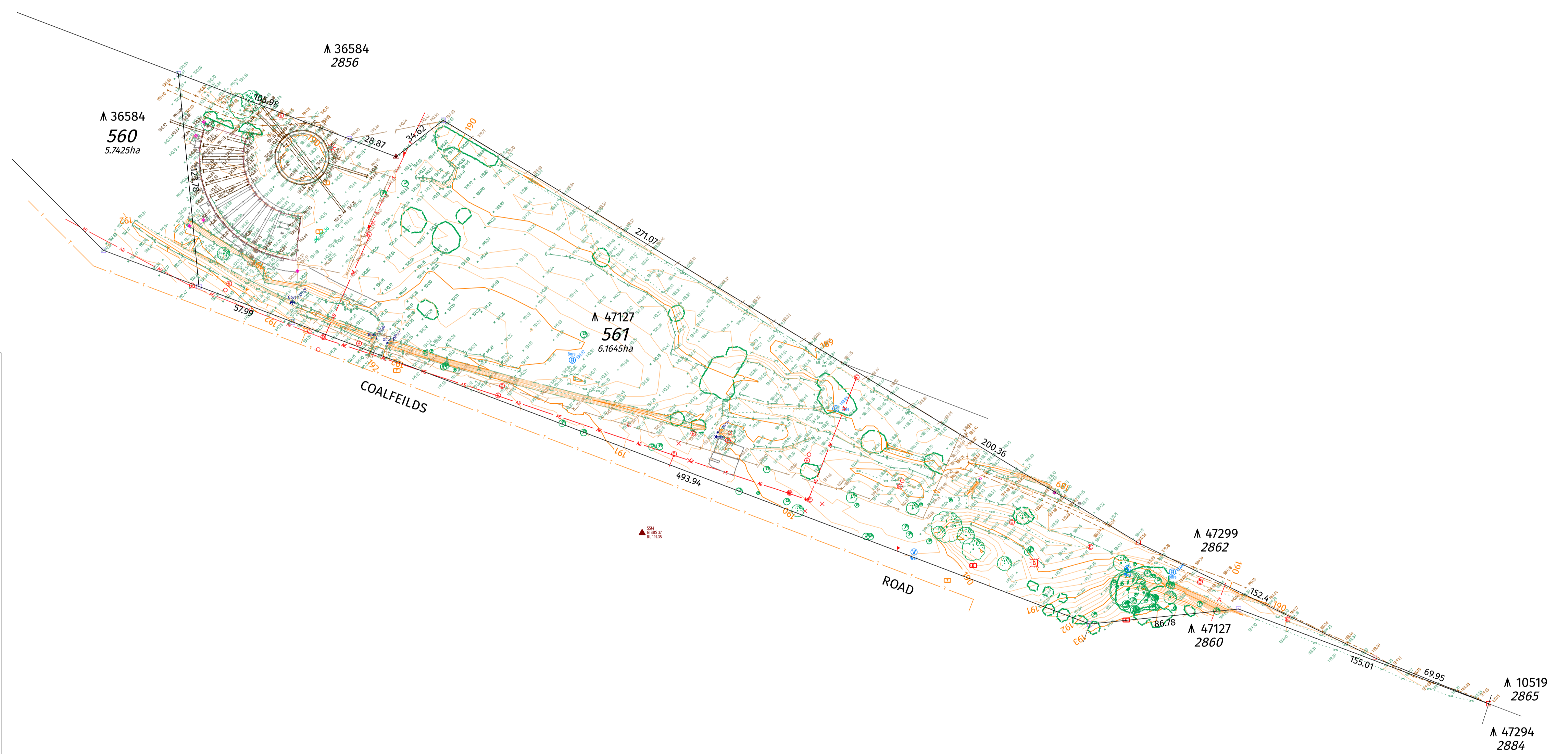
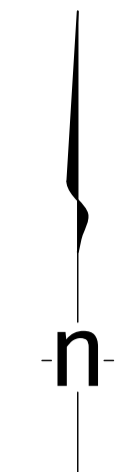
NOTE 1: L546505 CORRESPONDENCE FILE 50026-2003-01RO

NOTE 2: O371807 INTEREST ONLY Deposited Plan 418285 LODGED

Subject to dealing

APPENDIX 2

H & H Architects Feature Survey



LEGEND

+	Ground Level
X	Top of bank
∩	Bottom of bank
+	Track
+	Fence
+	Drain
⊙	Bore
⊙	Well
⊙	Hydrant (underground)
+	Sewer Top Of Pipe
X	Stay wire
○	Stay Pole
⊙	Power pole
⊙	Cable marker
⊙	Light pole
⊙	Distribution board
⊙	UG power box/pit
+	Earth pit
⊙	Comms marker
⊙	Comms pillar
⊙	Bollard
⊙	Sign
⊙	Tree
⊙	Plastic Post
⊙	Spike 0.1 Deep
⊙	Peg
⊙	Unknown MH
---	Top of bank
---	Bottom of bank
---	Edge of bitumen
---	Edge of Concrete
---	Bush line
---	Gravel Track
---	Fence
---	Rail
---	Platform
---	Building
---	Overhead Power (DBVD)
---	Underground Power (DBVD)
---	Telecommunications (DBVD)

DISCLAIMER

This plan has been prepared for H & H Architects from a combination of field survey and existing records for the purpose of showing the physical features of the land to assist in designing future development. It should not be used for any other purpose.

The title boundaries shown hereon were verified & marked at the time of survey.

Underground services shown on this drawing have been plotted from service authority records obtained from "Dial Before You Dig" or a similar source. Unless indicated otherwise only surface features have been located by survey.

Before starting any demolition, excavation or construction on the site, the relevant person should make an independent and updated enquiry of "Dial Before You Dig" and any relevant service providers to ascertain the existence of further services (if any) and the accurate location of those not surveyed at the time of preparing this plan (or data).

No responsibility can be accepted by Harley Dykstra for any damage caused to any underground service or any loss or injury so suffered if enquiry and verification have not been completed in accordance with this note.

Contractors to verify all survey control marks to be correct (by field checks) prior to utilisation for construction purposes. This note is an integral part of this plan or the data as transmitted. Failure to reproduce this note on providing this plan or accompanying data or any part thereof to any third party will render this plan or data invalid.

Harley Dykstra disclaims any liability whatsoever and howsoever caused for loss or damage arising from any party who uses or relies upon this plan for any purpose other than that for which it was intended.

In any event the liability of Harley Dykstra Pty Ltd is limited to the resupply of the relevant goods and/or services or the reasonable cost of resupply.

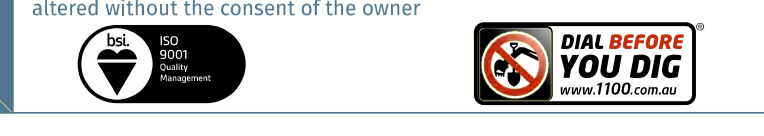
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A	Original drawing	BdR 08/04/20
rev	details	approved date
survey	SR 03/04/20	cad file 22207-01B.dgn
drawn	NP 08/04/20	checked BdR 08/07/20
horiz datum	COLLIE 94	level datum AHD
scale at A1	all distances are in metres	
1 : 1500		

plan type	FEATURE & CONTOUR SURVEY
client	H&H ARCHITECTS
description	COLLIE ROUNDHOUSE LOT 560 ON DP 68077 COALFIELDS ROAD, COLLIE
drawing no	22201-01B

BUNBURY OFFICE:
HARLEY DYKSTRA PTY LTD
21 Spencer Street, BUNBURY WA 6230
T: 08 9792 6000
E: bunbury@harleydykstra.com.au
W: www.harleydykstra.com.au

ALBANY | BUNBURY | BUSSELTON | FORRESTDALE | PERTH

NOTE:
This drawing is the property of harley dykstra pty ltd it may not be copied or altered without the consent of the owner



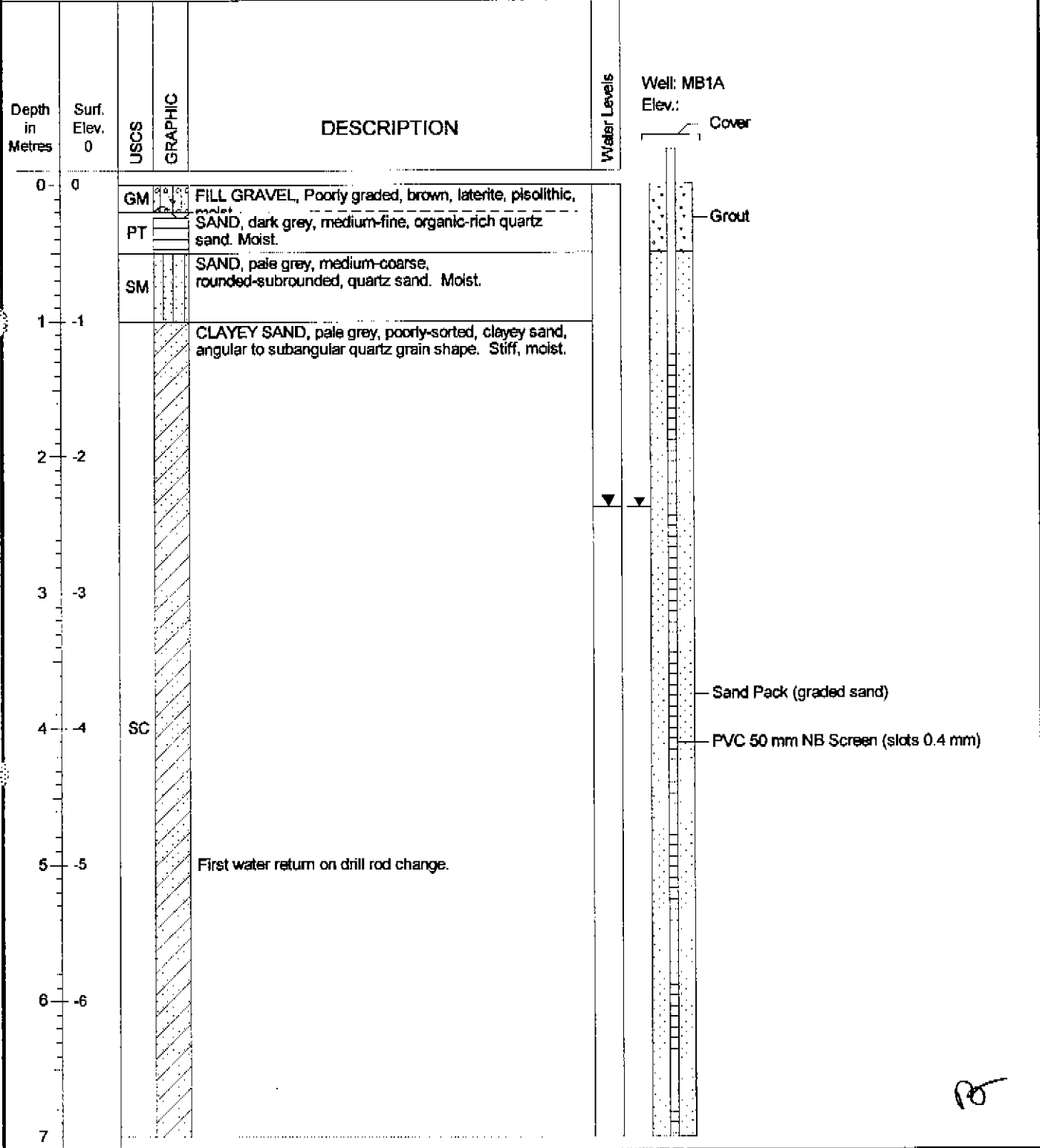
APPENDIX 3

Groundwater Monitoring Well Construction Logs

Halpern Glick Maunsell Pty Ltd
Monitor Bore Construction
Collie Rail Yard, Coalfields Road
Perth WA
PO No. 55210

Date Started : 16/7/02
Date Completed : 16/7/02
Hole Diameter : 90 mm
Drilling Method : RC Air core
Sampling Method : Core

Company Rep. : Peter Thorpe
Water level : 3.00 mbtc(steel)
Water level date/time : 17/7/02 0830 hrs
Logged By : Peter Thorpe
Development yield : Low, about 6 kL/day



PT



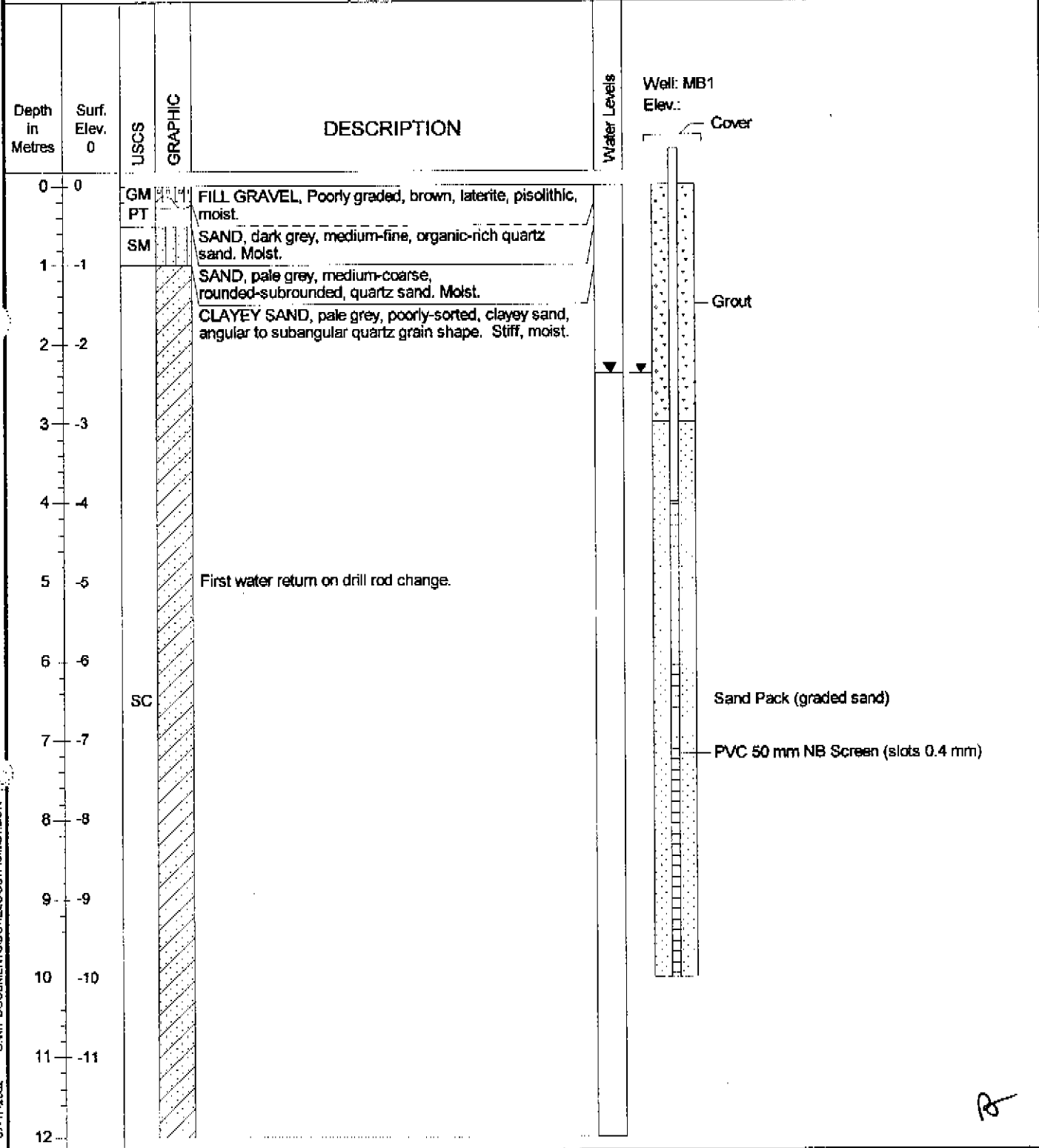
LOG OF BORING MB1A

(Page 1 of 1)

Halpern Glick Maunsell Pty Ltd
 Monitor Bore Construction
 Collie Rail Yard, Coalfields Road
 Perth WA
 PO No. 55210

Date Started : 15/7/02
 Date Completed : 15/7/02
 Hole Diameter : 90 mm
 Drilling Method : RC Air core
 Sampling Method : Core

Company Rep. : Peter Thorpe
 Water level : 2.92 mbtc(PVC)
 Water level date/time : 17/7/02 0830 hrs
 Logged By : Peter Thorpe
 Development yield : Low, about 5 kL/day

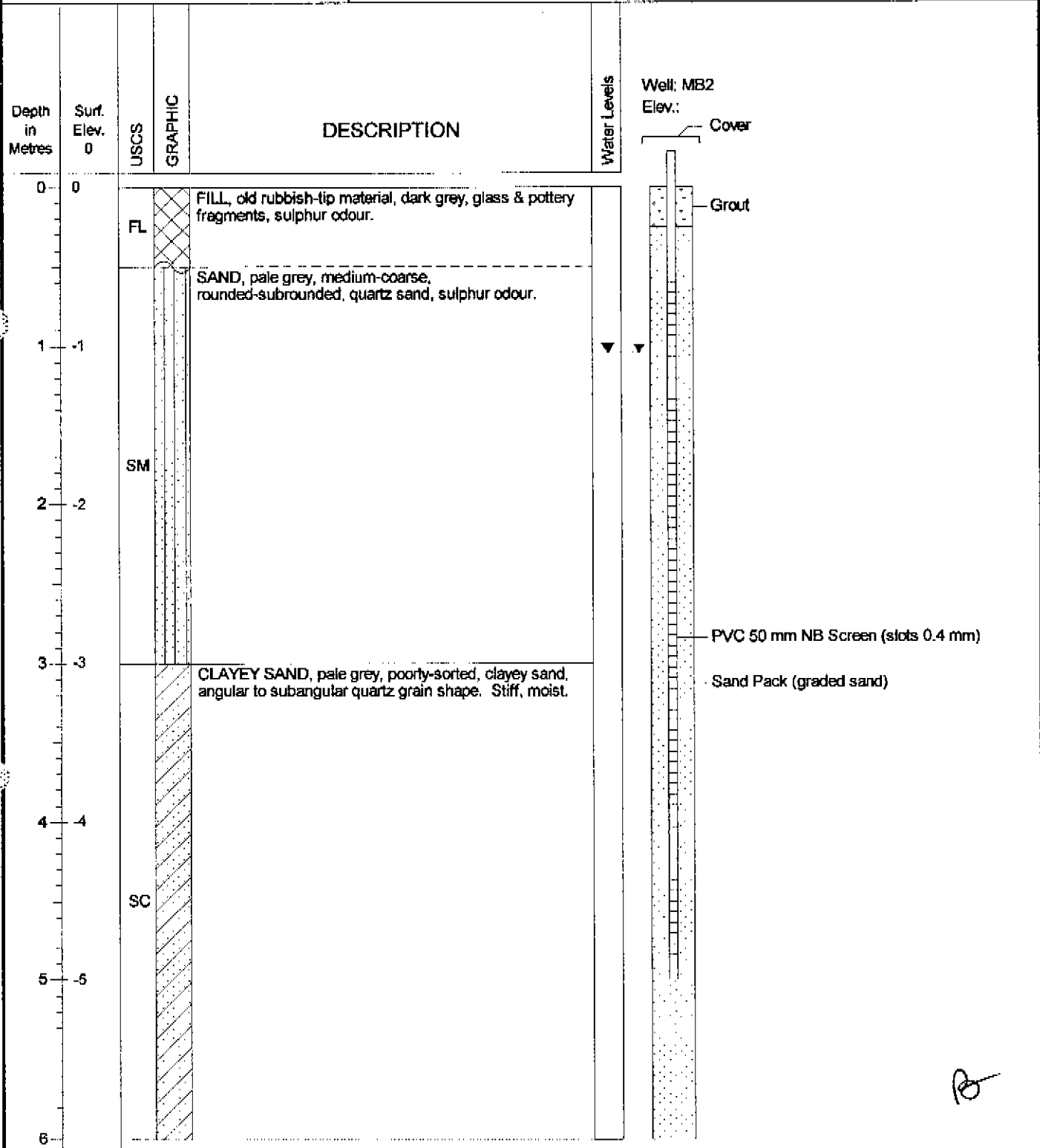


R

Halpern Glick Maunsell Pty Ltd
Monitor Bore Construction
Collie Rail Yard, Coalfields Road
Perth WA
PO No. 55210

Date Started : 15/7/02
Date Completed : 15/7/02
Hole Diameter : 90 mm
Drilling Method : RC Air core
Sampling Method : Core

Company Rep. : Peter Thorpe
Water level : 1.59 mbtc(steel)
Water level date/time : 17/7/02 0830 hrs
Logged By : Peter Thorpe
Development yield : Low, about 2 kL/day





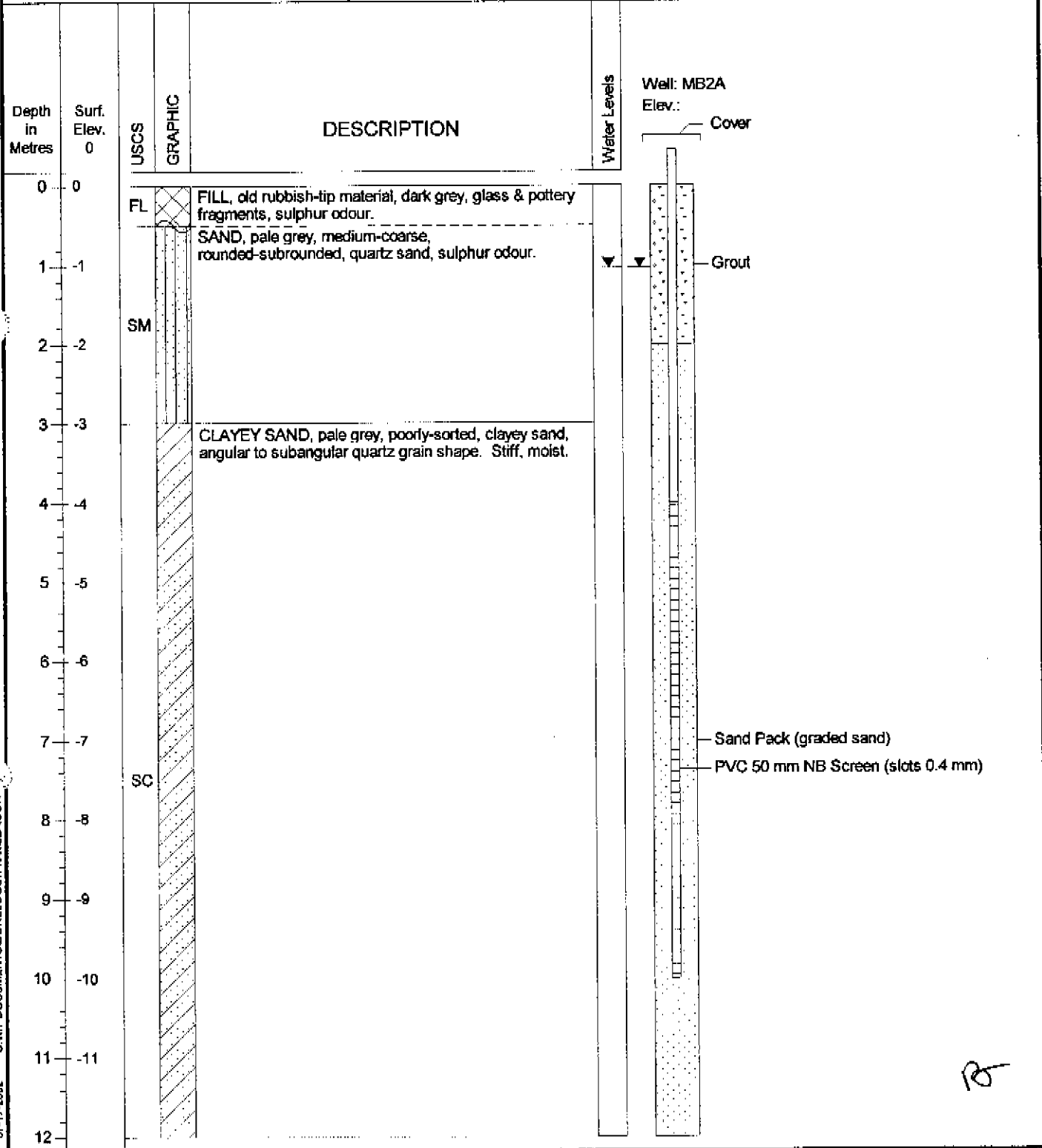

LOG OF BORING MB2A

(Page 1 of 1)

Halpern Glick Maunsell Pty Ltd
 Monitor Bore Construction
 Collie Rail Yard, Coalfields Road
 Perth WA
 PO No. 55210

Date Started : 16/7/02
 Date Completed : 16/7/02
 Hole Diameter : 90 mm
 Drilling Method : Mud rotary
 Sampling Method : cuttings

Company Rep. : Peter Thorpe
 Water level : 1.48 mbtc(PVC)
 Water level date/time : 17/7/02 0830 hrs
 Logged By : Peter Thorpe
 Development yield : Low, about 8 kL/day



RT

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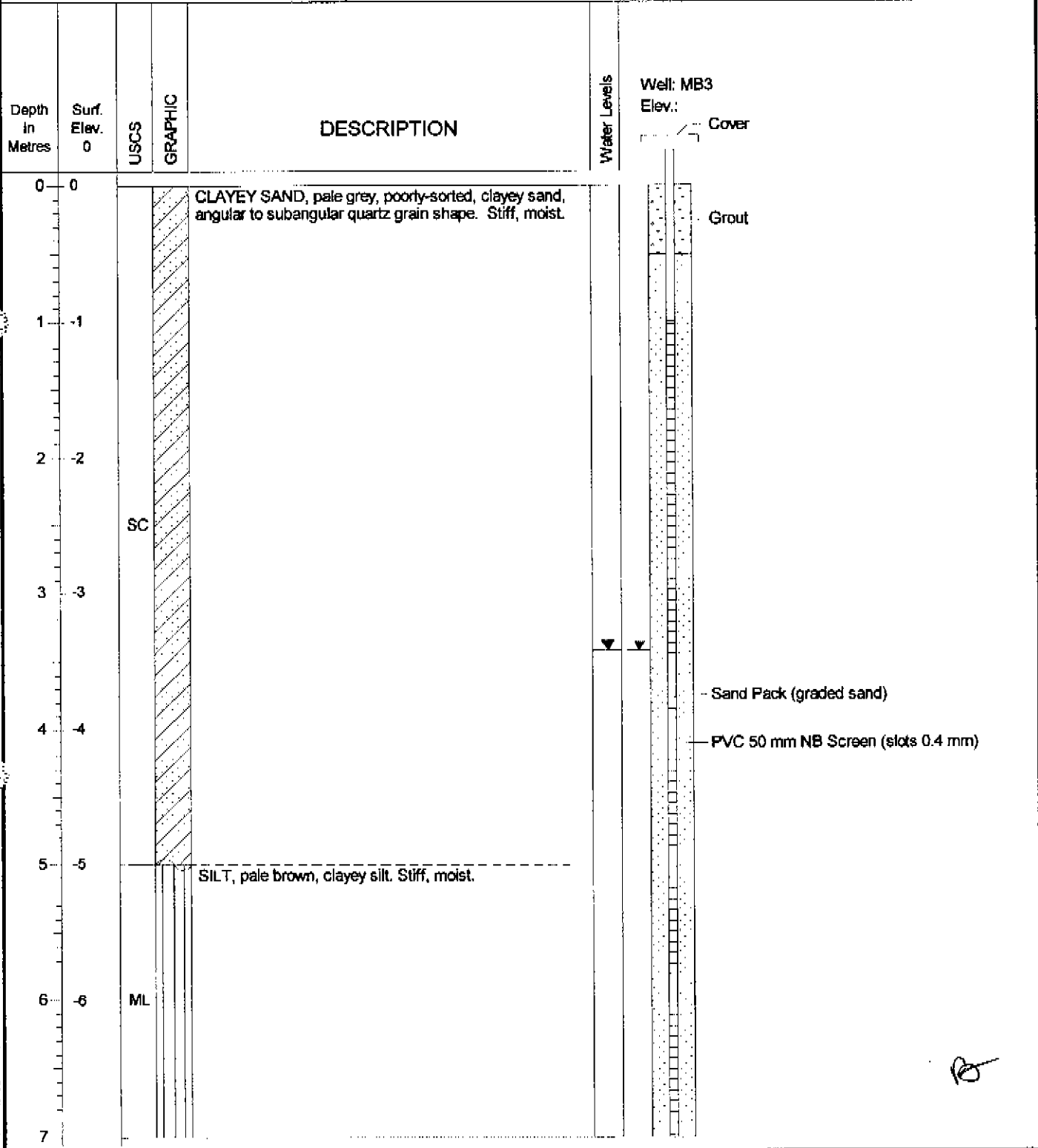
LOG OF BORING MB3

(Page 1 of 1)

Halpern Glick Maunsell Pty Ltd
 Monitor Bore Construction
 Collie Rail Yard, Coalfields Road
 Perth WA
 PO No. 55210

Date Started : 15/7/02
 Date Completed : 16/7/02
 Hole Diameter : 90 mm
 Drilling Method : RC Air core
 Sampling Method : Core

Company Rep. : Peter Thorpe
 Water level : 4.07 mbtc(steel)
 Water level date/time : 17/7/02 0830 hrs
 Logged By : Peter Thorpe
 Development yield : Low, about 1 kL/day



PT

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REPORT OF BOREHOLE: MB5

CLIENT: Public Transport Authority COORDS: 420188.3 m E 6309005.0 m N MGA94 56 SHEET: 1 OF 1
 PROJECT: Collie Roundhouse Groundwater Investigation SURFACE RL: DATUM: AHD DRILL RIG: Geoprobe 66200DT
 LOCATION: Collie INCLINATION: -90° CONTRACTOR: DPP
 JOB NO: 127643019 HOLE DEPTH: 7.50 m LOGGED: BH/CS DATE: 20/8/13
 CHECKED: KC DATE: 7/10/13

Drilling				Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	PIEZOMETER DETAILS
HA			0.00 m	0.20	PID = 0 ppm			SAND FILL medium to coarse grained, sub-rounded to sub-angular, Black, TOPSOIL, Rank = 0A			Concrete Bentonite Gravel Pack Pre-pack slotted PVC
			0.50 m	0.80	PID = 0.1 ppm			Clayey SAND fine to coarse grained, sub-rounded to sub-angular, Pale Orange, with some gravel, Rank = 0A			
			1.00 m	1.20	PID = 0.3 ppm			Clayey GRAVEL fine to coarse grained, angular, low plasticity, Pale Orange to Yellow, Rank = 0A			
			1.50 m	1.70	PID = 0.4 ppm			Clayey SAND fine to medium grained, sub-rounded to sub-angular, low plasticity, Pale Brown, with some gravel, Rank = 0A			
			2.00 m		PID = 0.1 ppm			CLAY fine to medium, sub-rounded to sub-angular, high plasticity, Pale Grey, Rank = 0A			
			2.50 m	2.80	PID = 0 ppm						
			3.00 m		PID = 0.3 ppm			Sandy CLAY fine to medium, sub-rounded to sub-angular, high plasticity, Pale Grey, Some orange mottling at 5m and 6m, Rank = 0A			
			3.50 m		PID = 0.1 ppm						
			4.00 m		PID = 0.1 ppm						
			4.50 m		PID = 0.3 ppm						
		5.00 m		PID = 0.1 ppm							
PT			5.50 m		PID = 0.1 ppm						
			6.00 m		PID = 0.3 ppm						
			6.50 m		PID = 0.1 ppm						
		7.00 m		PID = 0.1 ppm							
		7.50 m		PID = 0.1 ppm				END OF BOREHOLE @ 7.50 m TARGET DEPTH GROUNDWATER NOT ENCOUNTERED PIEZOMETER INSTALLED			

GAP 0_0713 LIB.GLB Log GAP NON-CORED FULL PAGE COLLIE ROUNDHOUSE.GPJ <<DrawingFile>> 17/10/2013 16:51 8 30.003 03sigd Tools

This report of borehole must be read in conjunction with accompanying notes and abbreviations.

APPENDIX 4

DWER WIR Bore Details



Site reference 6120032 - Collie River - Soldiers Park - Soldiers Park

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	6120032	Collie River - Soldiers Park	Soldiers Park
WIN_ID	23045814		Soldiers Park

General Details

Site Type	Surface (other)	Sub Type	Sampling location	Site Geofeature	River/Stream
Northing	6308645	Easting	421669	Zone	50
Latitude	-33.358563956	Longitude	116.158070501	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	+/-50m		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area (km2)	N/A
Site Comment					

Depth Measurement Points - No Data Available

Drilling - No Data Available

Borehole Information - No Data Available

Casing - No Data Available

Fill - No Data Available

Aquifers - No Data Available

Lithology Log - No Data Available



Stratigraphy Log - No Data Available

Advanced Data Summary - No Data Available



Site reference 6121208 - Collie River - Medic Street Bridge - Medic Street Bridge

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	6121208	Collie River - Medic Street Bridge	Medic Street Bridge
WIN_ID	23019486		Medic Street Bridge

General Details

Site Type	Surface (other)	Sub Type	Sampling location	Site Geofeature	River/Stream
Northing	6308831	Easting	421530	Zone	50
Latitude	-33.356876305	Longitude	116.156592801	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	+/-100m		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area (km2)	N/A
Site Comment					

Depth Measurement Points - No Data Available

Drilling - No Data Available

Borehole Information - No Data Available

Casing - No Data Available

Fill - No Data Available

Aquifers - No Data Available

Lithology Log - No Data Available



Stratigraphy Log - No Data Available

Advanced Data Summary (Site reference: 6121208 WIN Site ID: 6121208)

Readings by Project

Default Site Reference	Project Code	Project Name	First Measurement	Last Measurement	No of Measurements
6121208	SW-R-SWOO	South West Once Off Response Sampling	4/01/2005	4/01/2005	29

Readings by Data Category

Default Site Reference	Data Category	First Measurement	Last Measurement	No of Measurements
6121208	Water quality indicators - discrete	4/01/2005	4/01/2005	29

Readings By Variable Type

Default Site Reference	Variable Type	First Measurement	Last Measurement	No of Measurements
6121208	Physical	4/01/2005	4/01/2005	29



Site reference 61200027 - Collie Basin - CRM 20/98 - CRM 20/98

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	61200027	Collie Basin - CRM 20/98	CRM 20/98
WIN_ID	23024139		CRM 20/98

General Details

Site Type	Groundwater	Sub Type	Bore or Well	Site Geofeature	Ground
Northing	6309201.28	Easting	421339.86	Zone	50
Latitude	-33.353500000	Longitude	116.154600000	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	Unknown		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area (km2)	N/A
Site Comment					

Depth Measurement Points *(Site reference: 61200027)*

Measurement Point Type	Elevation (m as per Datum Plane)	Datum	Measurement Method	Date	Comments
Top of cement/concrete block or pad	186.847	AHD	Surveyed	16/03/1998	
Top of casing	187.347	AHD	From Construction length/ref	16/03/1998	
Top of protective headworks	187.329	AHD	Surveyed	16/03/1998	
Ground level	186.847	AHD	From Construction length/ref	16/03/1998	

Drilling - No Data Available



Borehole Information (Site reference: 61200027)

Completed Date	16/03/1998	Drill Method Name	Air drill		
Owner Name	Department of Water	Drill Rig Name	Unknown		
Drill Company Name	Drilling and Grouting Services	Total Construction Depth (mbGL)	11.65	Depth Drilled (mbGL)	11.65
Comments					

Casing (Site reference: 61200027)

From (mbGL)	To (mbGL)	Element	Material	Inlet Type	Inside Dia. (mm)	Outside Dia. (mm)	Aperture (mm)	Comments
-0.500	8.650	Casing	PVC - Class 9	Not applicable	50.000			
-0.482	0.000	Head works	Unknown	Not applicable				Top of standpipe calculated from standpipe elevation and approximate ground level elevation
8.650	11.650	Inlet (screen)	PVC - Class 9	Slotted	50.000		0.500	

Fill (Site reference: 61200027)

From (mbGL)	To (mbGL)	Fill Type	Material Type	Fill Volume (m3)	Grain Size (mm)
0.000	0.200	Seal	Concrete		
0.200	7.000	Annular Fill	Drill cuttings		
7.000	11.650	Annular Fill	Sand-graded		

Aquifers (Site reference: 61200027)

Aquifer Name	Depth From/To (mbGL)	Comments
Collie Group	-	
Reported Aquifer	-	Reported aquifer: Nakina Formation Comment: Claystone, Sandstone



Lithology Log (Site reference: 61200027)

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
0.000	1.000	Geologist--Internal staff	Gravel	Lateritic gravel - dark grey and orangish pink, quartz grains are very fine to coarse, moderately sorted, subangular to rounded
1.000	2.000	Geologist--Internal staff	Sand	Sand - slightly clayey, pale brown and yellow, quartz grains are very fine to coarse, poorly sorted, subrounded to rounded, trace of feldspar, some grains are stained yellow
2.000	4.000	Geologist--Internal staff	Claystone	Claystone - sandy, soft, creamy white, quartz grains are fine to coarse, moderately to well sorted, subrounded to rounded
4.000	5.000	Geologist--Internal staff	Sandstone	Sandstone - slightly clayey, creamy white, quartz grains are very fine to coarse, moderately to poorly sorted, subangular to rounded, trace of feldspar
5.000	7.000	Geologist--Internal staff	Claystone	Claystone - slightly sandy, creamy grey, quartz grains are fine to coarse, moderately sorted, subangular to rounded, trace of fine dark minerals, trace of feldspar
7.000	8.000	Geologist--Internal staff	Claystone	Claystone - creamy white, quartz grains are very fine to coarse, moderately sorted, subangular to rounded, trace fo fine dark minerals
8.000	11.650	Geologist--Internal staff	Claystone	Claystone and coal - slightly sandy, plastic, pale grey, quartz grains are fine to coarse, moderately sorted, subrounded to rounded, thick layer of black coal, brittles

Stratigraphy Log (Site reference: 61200027)

From (mbGL)	To (mbGL)	Interpreted By	Interpreted Date	Stratigraphy	Lithology1	Lithology2	Lithology3
0.000	1.000	Geologist--Internal staff	16/03/1998	Quaternary+Tertiary	laterite	Not specified	Not specified
1.000	5.000	Geologist--Internal staff	16/03/1998	Nakina Fm	sand	claystone	Not specified
5.000	11.650	Geologist--Internal staff	16/03/1998	Permian	claystone	Not specified	Not specified



Advanced Data Summary (Site reference: 61200027 WIN Site ID: 61200027)

Readings by Project

Default Site Reference	Project Code	Project Name	First Measurement	Last Measurement	No of Measurements
61200027	SW-G-HYDROREP	Hydrogeology Reports Data Capture	17/03/1998	1/04/2006	32
61200027	SW-G-HYDROREP	Hydrogeology Reports Data Capture	17/03/1998	9/06/1998	22

Readings by Data Category

Default Site Reference	Data Category	First Measurement	Last Measurement	No of Measurements
61200027	Water levels - discrete	17/03/1998	1/04/2006	32
61200027	Water levels - discrete	17/03/1998	17/03/1998	1
61200027	Water quality indicators - discrete	17/03/1998	9/06/1998	21

Readings By Variable Type

Default Site Reference	Variable Type	First Measurement	Last Measurement	No of Measurements
61200027	Inorganic metals	9/06/1998	9/06/1998	6
61200027	Inorganic non-metals	9/06/1998	9/06/1998	7
61200027	Nutrients	9/06/1998	9/06/1998	2
61200027	Physical	17/03/1998	9/06/1998	6
61200027	Water Level (discrete)	17/03/1998	1/04/2006	32
61200027	Water Level (discrete)	17/03/1998	17/03/1998	1



Site reference 61200030 - Collie Basin - CRM 23/98 - CRM 23/98

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	61200030	Collie Basin - CRM 23/98	CRM 23/98
WIN_ID	23024142		CRM 23/98

General Details

Site Type	Groundwater	Sub Type	Bore or Well	Site Geofeature	Ground
Northing	6308171.16	Easting	419562.87	Zone	50
Latitude	-33.362700000	Longitude	116.135400000	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	Unknown		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area (km2)	N/A
Site Comment					

Depth Measurement Points (Site reference: 61200030)

Measurement Point Type	Elevation (m as per Datum Plane)	Datum	Measurement Method	Date	Comments
Ground level	212.407	AHD	From Construction length/ref	06/03/1998	
Top of cement/concrete block or pad	212.407	AHD	Surveyed	06/03/1998	
Top of casing	212.907	AHD	From Construction length/ref	06/03/1998	
Top of protective headworks	212.907	AHD	Surveyed	16/03/1998	

Drilling - No Data Available



Borehole Information (Site reference: 61200030)

Completed Date	6/03/1998	Drill Method Name	Air drill		
Owner Name	Department of Water	Drill Rig Name	Unknown		
Drill Company Name	Drilling and Grouting Services	Total Construction Depth (mbGL)	38.73	Depth Drilled (mbGL)	38.73
Comments					

Casing (Site reference: 61200030)

From (mbGL)	To (mbGL)	Element	Material	Inlet Type	Inside Dia. (mm)	Outside Dia. (mm)	Aperture (mm)	Comments
-0.500	0.000	Head works	Unknown	Not applicable				Top of standpipe calculated from standpipe elevation and approximate ground level elevation
-0.500	35.730	Casing	PVC - Class 9	Not applicable	50.000			
35.730	38.730	Inlet (screen)	PVC - Class 9	Slotted	50.000		0.500	

Fill (Site reference: 61200030)

From (mbGL)	To (mbGL)	Fill Type	Material Type	Fill Volume (m3)	Grain Size (mm)
0.000	0.200	Seal	Concrete		
0.200	33.000	Annular Fill	Drill cuttings		
33.000	38.730	Annular Fill	Sand-graded		8-16MM

Aquifers (Site reference: 61200030)

Aquifer Name	Depth From/To (mbGL)	Comments
Collie Group	-	
Reported Aquifer	-	Reported aquifer: Collie Group Comment: Sandstone, Mudstone



Lithology Log (Site reference: 61200030)

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
0.000	0.500	Geologist--Internal staff	Gravel/Clay	Lateritic gravel and clay- sandy, grey, quartz grains are very fine to very coarse, poorly sorted, subangular to rounded, lateritic pisoliths, some grains are stained yellow
0.500	2.000	Geologist--Internal staff	Sand	Sand - clayey, creamy to pale brown, quartz grains are very fine to very coarse, poorly sorted, subangular to rounded, some grains are stained or coloured yellow-brown by adhering clay
2.000	3.000	Geologist--Internal staff	Claystone	Claystone - sandy, creamy white, quartz grains are very fine to very coarse, poorly sorted, subangular to rounded
3.000	5.000	Geologist--Internal staff	Claystone	Claystone - sandy and silty with a thin gritty sand layer, creamy white to pink, quartz grains are very fine to very coarse, poorly sorted, subangular to roundedm trace of mica
5.000	6.000	Geologist--Internal staff	Claystone	Claystone - slightly sandy, greyish pink and creamy white with minor pinkish red, soft, quartz grains are very fine to coarse, poorly sorted, subangular to rounded, trace of white mica
6.000	7.000	Geologist--Internal staff	Sandstone	Sandstone - slightly silty and clayey, creamy white, quartz grains are very fine to very coarse, poorly sorted, subangular to rounded, trace of heavy minerals and white mica
7.000	8.000	Geologist--Internal staff	Claystone	Claystone - creamy white to pink, trace of sand
8.000	12.000	Geologist--Internal staff	Sandstone	Sandstone and mudstone - white grey, quartz grains are fine to coarse, poorly sorted, subangular to rounded, mudstone is sandy and cream
12.000	16.000	Geologist--Internal staff	Sandstone	Sandstone - clayey and silty, white to very pale grey, quartz grains are very fine to coarse, moderately sorted, subangular to rounded, some grains are stained yellow, trace of fine dark minerals
16.000	19.000	Geologist--Internal staff	Sandstone	Sandstone and mudstone - clayey and silty, brown, soft to firm, quartz grains are fine to coarse, moderately sorted, subangular to rounded, mudstone is with minor sand
19.000	21.500	Geologist--Internal staff	Sandstone	Sandstone and coal - clayey, grey, quartz grains are fine to coarse, moderately sorted, subangular to rounded, coal is black and brittle
21.500	25.000	Geologist--Internal staff	Sandstone	Sandstone and shale - chocolate brown, soft, slightly micaceous, quartz grains are fine to coarse, moderately sortedm, subangular to rounded
25.000	26.000	Geologist--Internal staff	Shale	Shale - sandy, chocolate brown, quartz grains are very fine to fine, moderately sorted, subangular to rounded
26.000	30.000	Geologist--Internal staff	Sandstone	Sandstone - clayey, creamy white, quartz grains are fine to coarse, subangular to rounded, trace of mica
30.000	33.000	Geologist--Internal staff	Sandstone	Sandstone - slightly clayey, creamy white to pale grey, soft, quartz grains are very fine to 4mm pebbles, poorly sorted, subrounded to well rounded
33.000	35.000	Geologist--Internal staff	Sandstone	Sandstone and shale - chocolate brown, quartz grains are fine to medium, moderately sorted, subangular to rounded, trace of mica
35.000	36.000	Geologist--Internal staff	Shale	Shale - pale to chocolate brown, soft, quartz grains are very fine to fine, moderately sorted, subangular to rounded, trace of mica, trace of dark minerals
36.000	38.730	Geologist--Internal staff	Sandstone	Sandstone and shale - clayey, creamy white to grey, quartz grains are fine to coarse



Stratigraphy Log (Site reference: 61200030)

From (mbGL)	To (mbGL)	Interpreted By	Interpreted Date	Stratigraphy	Lithology1	Lithology2	Lithology3
0.000	0.500	Geologist--Internal staff	6/03/1998	Quaternary+Tertiary	lateritic	gravel	Not specified
0.500	2.000	Geologist--Internal staff	6/03/1998	Nakina Fm	sand	Not specified	Not specified
2.000	38.730	Geologist--Internal staff	6/03/1998	Permian	sandstone	mudstone	shale

Advanced Data Summary (Site reference: 61200030 WIN Site ID: 61200030)

Readings by Project

Default Site Reference	Project Code	Project Name	First Measurement	Last Measurement	No of Measurements
61200030	SW-G-HYDROREP	Hydrogeology Reports Data Capture	6/03/1998	1/04/2006	30
61200030	SW-G-HYDROREP	Hydrogeology Reports Data Capture	6/03/1998	8/06/1998	21

Readings by Data Category

Default Site Reference	Data Category	First Measurement	Last Measurement	No of Measurements
61200030	Water levels - discrete	6/03/1998	1/04/2006	30
61200030	Water quality indicators - discrete	6/03/1998	8/06/1998	21

Readings By Variable Type

Default Site Reference	Variable Type	First Measurement	Last Measurement	No of Measurements
61200030	Inorganic metals	8/06/1998	8/06/1998	6
61200030	Inorganic non-metals	8/06/1998	8/06/1998	7
61200030	Nutrients	8/06/1998	8/06/1998	2
61200030	Physical	6/03/1998	8/06/1998	6
61200030	Water Level (discrete)	6/03/1998	1/04/2006	30



Site reference 61210961 - Collie - Bore - Bore

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	61210961	Collie - Bore	Bore
WIN_ID	20037599		Bore
AQWAB	2131-3-NE-0005	612 - COLLIE RIVER BASIN -	Bore

General Details

Site Type	Groundwater	Sub Type	Bore or Well	Site Geofeature	Ground
Northing	6308929	Easting	420529	Zone	50
Latitude	-33.355917339	Longitude	116.145842116	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	+/-100m		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area(km2)	N/A
Site Comment	There appears to be no coal bed comparable with that in the wallsend colliery unless seams have thinned out in this direction. Some little distance to the west of the wallsend colliery a private, diamond drill has been used to test the measures to a depth of 500ft. The bore is situated near the south-eastern corner of coal mining lease 105. Please see geological log. Calyx drill bore west collie coal proprietary company. (Coal mining lease 105). The strata at the western end of the field, where the discovery of coal was first made, have been tested by means of shafts and bore holes.				

Depth Measurement Points (Site reference: 61210961)

Measurement Point Type	Elevation (m as per Datum Plane)	Datum	Measurement Method	Date	Comments
Ground level	0	NA	(none)	30/06/1890	

Drilling - No Data Available



Borehole Information (Site reference: 61210961)

Completed Date	30/06/1890	Drill Method Name	Unknown		
Owner Name	Unknown	Drill Rig Name	Unknown		
Drill Company Name	Unknown Company	Total Construction Depth (mbGL)	0	Depth Drilled (mbGL)	153.14
Comments					

Casing - No Data Available

Fill - No Data Available

Aquifers - No Data Available

Lithology Log (Site reference: 61210961)

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
0.000	1.370	Non geologist--Unknown Org Type		Surface sand and conglomerate
1.370	7.470	Non geologist--Unknown Org Type		Soft sandstone
7.470	30.330	Non geologist--Unknown Org Type		White sandy clay (shale)
30.330	47.700	Non geologist--Unknown Org Type		Soft coarse sandstone
47.700	47.850	Non geologist--Unknown Org Type		Dark shale
47.850	48.460	Non geologist--Unknown Org Type		Coal
48.460	49.230	Non geologist--Unknown Org Type		Shale
49.230	50.750	Non geologist--Unknown Org Type		Sandstone
50.750	54.050	Non geologist--Unknown Org Type		Dark shale
54.050	60.660	Non geologist--Unknown Org Type		Sandstone with coaly matter
60.660	60.860	Non geologist--Unknown Org Type		Dark shale



Site Details Report

Date: 17/03/2020

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
60.860	61.010	Non geologist--Unknown Org Type		Coal
61.010	61.420	Non geologist--Unknown Org Type		Dark shale
61.420	65.680	Non geologist--Unknown Org Type		Sandstone
65.680	67.210	Non geologist--Unknown Org Type		Dark shale
67.210	67.280	Non geologist--Unknown Org Type		Coal
67.280	73.150	Non geologist--Unknown Org Type		Sandstone
73.150	73.610	Non geologist--Unknown Org Type		Dark shale
73.610	73.660	Non geologist--Unknown Org Type		Coal
73.660	73.760	Non geologist--Unknown Org Type		Dark shale
73.760	84.730	Non geologist--Unknown Org Type		Sandstone
84.730	85.650	Non geologist--Unknown Org Type		Coal
85.650	85.950	Non geologist--Unknown Org Type		Shale
85.950	89.330	Non geologist--Unknown Org Type		Sandstone
89.330	90.810	Non geologist--Unknown Org Type		Alternations of shale and sandstone
90.810	106.860	Non geologist--Unknown Org Type		Alternations of conglomerate and sandstone
106.860	107.470	Non geologist--Unknown Org Type		Coal
107.470	108.130	Non geologist--Unknown Org Type		Shale
108.130	112.240	Non geologist--Unknown Org Type		Alternations of sandstone and conglomerate
112.240	112.980	Non geologist--Unknown Org Type		Dark shale
112.980	113.790	Non geologist--Unknown Org Type		Coal
113.790	113.940	Non geologist--Unknown Org Type		Shale
113.940	117.630	Non geologist--Unknown Org Type		Conglomerate and sandstone



From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
117.630	119.460	Non geologist--Unknown Org Type		Coal
119.460	119.630	Non geologist--Unknown Org Type		Dark shale
119.630	120.450	Non geologist--Unknown Org Type		Micaceous shale
120.450	135.990	Non geologist--Unknown Org Type		Alternations of conglomerate and sandstone
135.990	136.910	Non geologist--Unknown Org Type		Dakr shale
136.910	138.350	Non geologist--Unknown Org Type		Sandstone and shale
138.350	142.770	Non geologist--Unknown Org Type		Dark carbonaceous shale with thin coal bands
142.770	153.140	Non geologist--Unknown Org Type		Sandstone

Stratigraphy Log (Site reference: 61210961)

From (mbGL)	To (mbGL)	Interpreted By	Interpreted Date	Stratigraphy	Lithology1	Lithology2	Lithology3
0.000	1.370	Non geologist--Unknown Org Type	18/02/1994	Quaternary+Tertiary	sand	conglomerate	(none)
1.370	153.140	Non geologist--Unknown Org Type	18/02/1994	Permian	shale	sandstone	coal

Advanced Data Summary - No Data Available



Site reference 61210997 - Collie - Bore - Bore

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	61210997	Collie - Bore	Bore
WIN_ID	20037657		Bore
AQWAB	2131-3-NE-0063	612 - COLLIE RIVER BASIN -	Bore

General Details

Site Type	Groundwater	Sub Type	Bore or Well	Site Geofeature	Ground
Northing	6308959	Easting	421430	Zone	50
Latitude	-33.355712940	Longitude	116.155527796	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	+/-100m		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area(km2)	N/A
Site Comment	WAWA 15189/6 co 250.024. Gravel packed 0-60m.				

Depth Measurement Points *(Site reference: 61210997)*

Measurement Point Type	Elevation (m as per Datum Plane)	Datum	Measurement Method	Date	Comments
Ground level		0 NA	(none)	28/01/1988	

Drilling - No Data Available



Borehole Information (Site reference: 61210997)

Completed Date	28/01/1988	Drill Method Name	Rotary drill		
Owner Name	Collie Bowling Club	Drill Rig Name	Unknown		
Drill Company Name	Griffin Coal Mining Co Ltd	Total Construction Depth (mbGL)	0	Depth Drilled (mbGL)	60
Comments					

Casing (Site reference: 61210997)

From (mbGL)	To (mbGL)	Element	Material	Inlet Type	Inside Dia. (mm)	Outside Dia. (mm)	Aperture (mm)	Comments
0.000	0.000	Unknown	Unknown	Not applicable				0 - 60m x 125mm; 12m - 60m wrapped with terrem material screen

Fill - No Data Available

Aquifers - No Data Available

Lithology Log (Site reference: 61210997)

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
0.000	0.900	Non geologist--Unknown Org Type		Sand
0.900	1.800	Non geologist--Unknown Org Type		Sand and laterite
1.800	3.400	Non geologist--Unknown Org Type		Sand
3.400	4.600	Non geologist--Unknown Org Type		Sand and minor clay layers
4.600	9.800	Non geologist--Unknown Org Type		Coal (shaley)
9.800	10.500	Non geologist--Unknown Org Type		Siltstone with minor shale
10.500	11.700	Non geologist--Unknown Org Type		Coal
11.700	14.700	Non geologist--Unknown Org Type		Sandstone



Site Details Report

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
14.700	26.900	Non geologist--Unknown Org Type		Sandstone
26.900	29.400	Non geologist--Unknown Org Type		Carbonaceous shale
29.400	30.500	Non geologist--Unknown Org Type		Shale
30.500	31.700	Non geologist--Unknown Org Type		Coal
31.700	32.500	Non geologist--Unknown Org Type		Shale
32.500	38.600	Non geologist--Unknown Org Type		Sandstone
38.600	39.700	Non geologist--Unknown Org Type		Coal
39.700	40.200	Non geologist--Unknown Org Type		Shale
40.200	43.000	Non geologist--Unknown Org Type		Sandstone with minor mudstone
43.000	45.500	Non geologist--Unknown Org Type		Sandstone
45.500	46.500	Non geologist--Unknown Org Type		Coal
46.500	47.500	Non geologist--Unknown Org Type		Carbonaceous shale
47.500	48.000	Non geologist--Unknown Org Type		Coal - shale
48.000	53.200	Non geologist--Unknown Org Type		Sandstone
53.200	54.800	Non geologist--Unknown Org Type		Carbonaceous shale
54.800	57.500	Non geologist--Unknown Org Type		Sandstone
57.500	60.000	Non geologist--Unknown Org Type		Sandstone with interbedded shale



Stratigraphy Log (Site reference: 61210997)

From (mbGL)	To (mbGL)	Interpreted By	Interpreted Date	Stratigraphy	Lithology1	Lithology2	Lithology3
0.000	4.600	Non geologist-- Unknown Org Type	21/02/1994	Quaternary+Tertiary	sand	clay	laterite
4.600	60.000	Non geologist-- Unknown Org Type	21/02/1994	Permian	sandstone	shale	coal

Advanced Data Summary - No Data Available



Site reference 61270116 - Collie - Company - Company

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	61270116	Collie - Company	Company
WIN_ID	23073430		Company

General Details

Site Type	Groundwater	Sub Type	Bore or Well	Site Geofeature	Ground
Northing	6308681	Easting	420375	Zone	50
Latitude	-33.358144193	Longitude	116.144166645	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	+/-200m		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area (km2)	N/A
Site Comment					

Depth Measurement Points (Site reference: 61270116)

Measurement Point Type	Elevation (m as per Datum Plane)	Datum	Measurement Method	Date	Comments
Ground level	0	GL	Unknown	30/10/2007	

Drilling - No Data Available



Borehole Information (Site reference: 61270116)

Completed Date	30/10/2007	Drill Method Name	See Comment		
Owner Name	Collie Ridge Motel	Drill Rig Name	Unknown		
Drill Company Name	Aquatech Drilling	Total Construction Depth (mbGL)	54	Depth Drilled (mbGL)	54
Comments					

Casing (Site reference: 61270116)

From (mbGL)	To (mbGL)	Element	Material	Inlet Type	Inside Dia. (mm)	Outside Dia. (mm)	Aperture (mm)	Comments
0.000	35.000	Casing	PVC - Class 9	Not applicable	100.000			
36.000	54.000	Inlet (screen)	PVC	Slotted	100.000		0.300	

Fill (Site reference: 61270116)

From (mbGL)	To (mbGL)	Fill Type	Material Type	Fill Volume (m3)	Grain Size (mm)
30.000	54.000	Annular Fill	Gravel		1.6 - 3.6MM

Aquifers (Site reference: 61270116)

Aquifer Name	Depth From/To (mbGL)	Comments
Reported Aquifer	-	Reported aquifer: Confined Aquifer



Lithology Log (Site reference: 61270116)

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
0.000	12.000	Driller	Sand	White sand
12.000	32.000	Driller	Clay/Gravel	Brown clay and gravel
32.000	36.000	Driller	Shale	White shale
36.000	54.000	Driller	Sand/Clay	White sand and clay bars

Stratigraphy Log - No Data Available

Advanced Data Summary (Site reference: 61270116 WIN Site ID: 61270116)

Readings by Project

Default Site Reference	Project Code	Project Name	First Measurement	Last Measurement	No of Measurements
61270116	WA-G-WFFEXTREP	Water for Food Water Information Conversion	30/10/2007	30/10/2007	1

Readings by Data Category

Default Site Reference	Data Category	First Measurement	Last Measurement	No of Measurements
61270116	Water levels - discrete	30/10/2007	30/10/2007	1

Readings By Variable Type

Default Site Reference	Variable Type	First Measurement	Last Measurement	No of Measurements
61270116	Water Level (discrete)	30/10/2007	30/10/2007	1



Site reference 61270145 - Collie - Private - Private

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	61270145	Collie - Private	Private
WIN_ID	23073393		Private

General Details

Site Type	Groundwater	Sub Type	Bore or Well	Site Geofeature	Ground
Northing	6308681	Easting	420376	Zone	50
Latitude	-33.358144267	Longitude	116.144177392	Spheroid	GDA94
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	Unknown		
Local Govt Authority	SHIRE OF COLLIE	Locality	COLLIE	DWER Region	South West
Catchment	Wellington Dam_Collie River	Estuary		BOM Rainfall District	9A - South Coast
River Basin	612 - Collie River	Groundwater Area	Collie	Groundwater Province	Collie
Surface Water Area	Collie	Surface Water SubArea	Collie River Central	GgStn Catchment Area (km2)	N/A
Site Comment					

Depth Measurement Points (Site reference: 61270145)

Measurement Point Type	Elevation (m as per Datum Plane)	Datum	Measurement Method	Date	Comments
Ground level	0	GL	Unknown	30/10/2007	

Drilling - No Data Available



Borehole Information (Site reference: 61270145)

Completed Date	30/10/2007	Drill Method Name	See Comment		
Owner Name	Private Owner	Drill Rig Name	Unknown		
Drill Company Name	Aquatech Drilling	Total Construction Depth (mbGL)	54	Depth Drilled (mbGL)	54
Comments					

Casing (Site reference: 61270145)

From (mbGL)	To (mbGL)	Element	Material	Inlet Type	Inside Dia. (mm)	Outside Dia. (mm)	Aperture (mm)	Comments
0.000	36.000	Casing	PVC - Class 9	Not applicable	100.000			
36.000	54.000	Inlet (screen)	PVC	Slotted	100.000			Recorded as slotted PVC slot width 0.30

Fill (Site reference: 61270145)

From (mbGL)	To (mbGL)	Fill Type	Material Type	Fill Volume (m3)	Grain Size (mm)
30.000	54.000	Annular Fill	Quartz		1.6 TO 3.6MM

Aquifers (Site reference: 61270145)

Aquifer Name	Depth From/To (mbGL)	Comments
Reported Aquifer	-	Reported aquifer: Collie Group



Lithology Log (Site reference: 61270145)

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
0.000	12.000	Driller	Sand	White sands
12.000	32.000	Driller	Clay/Gravel	Brown clay and gravel
32.000	36.000	Driller	Shale	White shale
36.000	54.000	Driller	Sand/Clay	White sand and clay bars

Stratigraphy Log - No Data Available

Advanced Data Summary (Site reference: 61270145 WIN Site ID: 61270145)

Readings by Project

Default Site Reference	Project Code	Project Name	First Measurement	Last Measurement	No of Measurements
61270145	WA-G-WFFEXTREP	Water for Food Water Information Conversion	30/10/2007	30/10/2007	1

Readings by Data Category

Default Site Reference	Data Category	First Measurement	Last Measurement	No of Measurements
61270145	Water levels - discrete	30/10/2007	30/10/2007	1

Readings By Variable Type

Default Site Reference	Variable Type	First Measurement	Last Measurement	No of Measurements
61270145	Water Level (discrete)	30/10/2007	30/10/2007	1

APPENDIX 5

DWER March 2020 Proclaimed Groundwater Area Map

Groundwater Proclamation Areas March 2020

Groundwater Areas	
Derby	Rottnest
Broome	Cockburn
Canning - Kimberley	Jandakot
Pilbara	Happy Valley
Carnarvon	Stakehill
East Murchison	Serpentine
Gascoyne	Murray
Arrowsmith	Rockingham
Jurien	Dwellingup
Gingin	South West Coastal
Yerecoin	Bunbury
New Norcia	Collie
Yenart	Busselton - Capel
Bolgart East	Blackwood
Bolgart	Goldfields
Gnangara	Westonia
Yanchep	Kondinin - Ravensthorpe
Wanneroo	Hopetoun
Swan	Albany
Mirrabooka	Bremer Bay
Perth	Esperance
Gwelup	Gibson
Carnarvon Irrigation District	



Legend

- Towns
- Groundwater Areas - Proclamation

This map is a product of the Department of Water and Environmental Regulation.

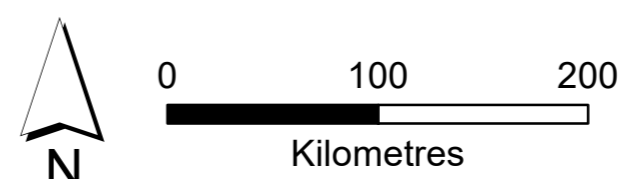
This map was produced with the intent that it be used for identification at the scale as shown (enlargement at the scale as shown).

J:\gis\projects\ProjectDWER\3000_SCI_PLA\3430_WAP\0005_RIWI\ProclaimedAreas_3430_0005_001_RIWI_GWAs_20200317

While the Department of Water and Environmental Regulation has made all reasonable efforts to ensure the accuracy of this data, the Department accepts no responsibility for any inaccuracies and persons relying on this data do so at their own risk.

Sources

- Towns - Landgate - Current
- WA Coastline - GA - Current
- Groundwater Areas - DWER - Current



Government of Western Australia
Department of Water and Environmental Regulation

APPENDIX 6

PMST Report



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 30/04/20 15:45:21

[Summary](#)

[Details](#)

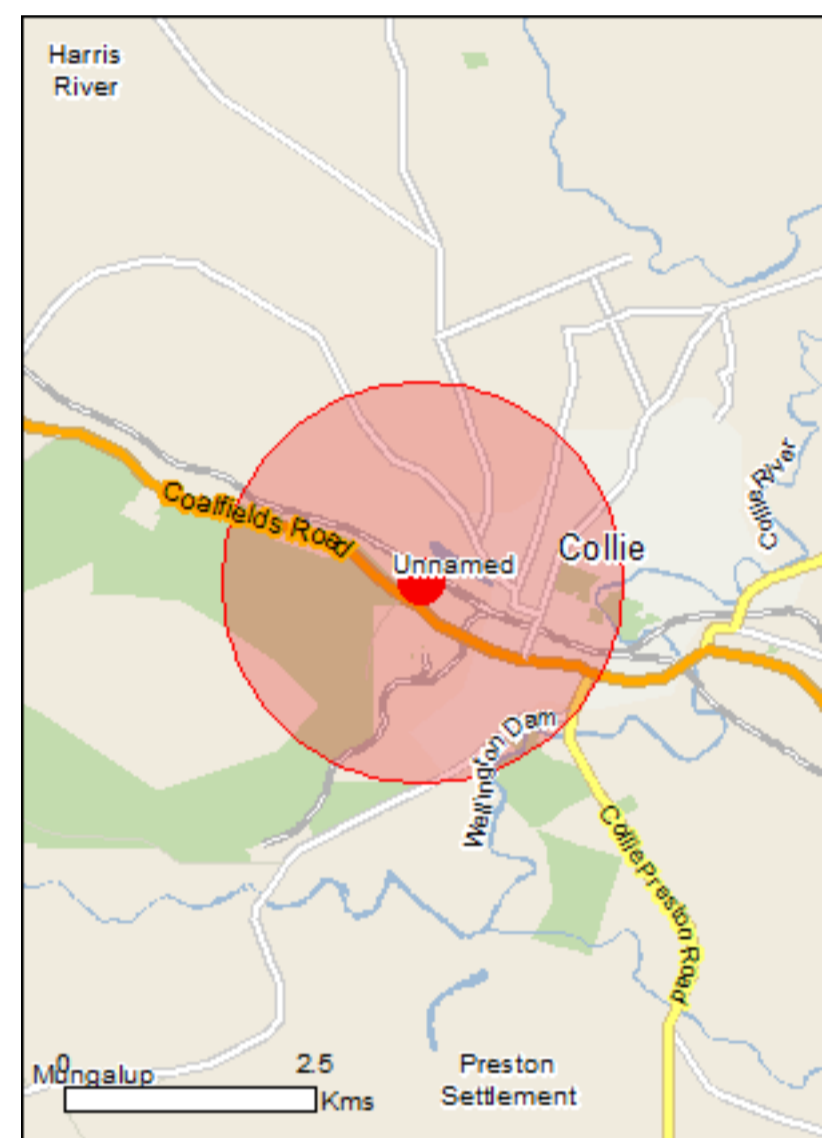
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

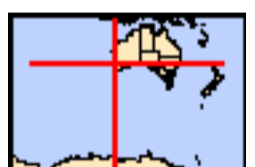
[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 2.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	12
Listed Migratory Species:	8

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	13
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	1
Regional Forest Agreements:	1
Invasive Species:	17
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
Calyptorhynchus baudinii Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Endangered	Species or species habitat known to occur within area
Calyptorhynchus latirostris Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Fish		
Nannatherina balstoni Balston's Pygmy Perch [66698]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat may occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat may occur within area
Plants		
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat known to occur

Name	Status	Type of Presence within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land		[Resource Information]
The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.		
Name	Commonwealth Land -	

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves [\[Resource Information \]](#)

Name	State
Westralia	WA

Regional Forest Agreements [\[Resource Information \]](#)

Note that all areas with completed RFAs have been included.

Name	State
South West WA RFA	Western Australia

Invasive Species [\[Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species

Name	Status	Type of Presence
habitat likely to occur within area		
Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Cytisus scoparius Broom, English Broom, Scotch Broom, Common Broom, Scottish Broom, Spanish Broom [5934]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-33.35523 116.14101

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

APPENDIX 7

NatureMap Report

NatureMap Species Report

Created By Guest user on 30/04/2020

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 116° 08' 26" E, 33° 21' 18" S
Buffer 2km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	472	801
Other specially protected fauna	1	2
Priority 1	1	1
Priority 2	1	1
Priority 3	2	3
Priority 4	7	21
Rare or likely to become extinct	8	16
TOTAL	492	845

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Rare or likely to become extinct				
1.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black Cockatoo)		T	
2.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		T	
3.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		T	
4.	24092 <i>Dasyurus geoffroii</i> (Chuditch, Western Quoll)		T	
5.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
6.	24166 <i>Pseudocheirus occidentalis</i> (Western Ringtail Possum, ngwayir)		T	
7.	24145 <i>Setonix brachyurus</i> (Quokka)		T	
8.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
Other specially protected fauna				
9.	48070 <i>Phascogale tapoatafa</i> subsp. <i>wambenger</i> (South-western Brush-tailed Phascogale, Wambenger)		S	
Priority 1				
10.	44898 <i>Caladenia validinervia</i>		P1	
Priority 2				
11.	24347 <i>Ixobrychus flavicollis</i> subsp. <i>australis</i> (Black Bittern (southwest subpop.), Australian Black Bittern)		P2	
Priority 3				
12.	11336 <i>Adenanthos cygnorum</i> subsp. <i>chamaephyton</i>		P3	
13.	34030 <i>Geotria australis</i> (Pouched Lamprey)		P3	
Priority 4				
14.	11333 <i>Calothamnus graniticus</i> subsp. <i>leptophyllus</i>		P4	
15.	24189 <i>Falsistrellus mackenziei</i> (Western False Pipistrelle, Western Falsistrelle)		P4	
16.	2082 <i>Grevillea ripicola</i> (Collie Grevillea)		P4	
17.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
18.	17622 <i>Hypolaena robusta</i>		P4	
19.	48588 <i>Isoodon fusciventer</i> (Quenda, southwestern brown bandicoot)		P4	
20.	4183 <i>Pultenaea skinneri</i> (Skinner's Pea)		P4	
Non-conservation taxon				
21.	3254 <i>Acacia celastrifolia</i> (Glowing Wattle)			
22.	3307 <i>Acacia divergens</i>			
23.	11303 <i>Acacia drummondii</i> subsp. <i>candolleana</i>			
24.	3331 <i>Acacia extensa</i> (Wiry Wattle)			
25.	3383 <i>Acacia incurva</i>			
26.	16165 <i>Acacia insolita</i> subsp. <i>insolita</i>			
27.	3410 <i>Acacia lateriticola</i>			
28.	3454 <i>Acacia nervosa</i> (Rib Wattle)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
29.	3464 <i>Acacia obovata</i>			
30.	17860 <i>Acacia podalyriifolia</i>	Y		
31.	3496 <i>Acacia preissiana</i>			
32.	3554 <i>Acacia squamata</i>			
33.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)			
34.	3591 <i>Acacia urophylla</i>			
35.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
36.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
37.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
38.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
39.	<i>Acariformes</i> sp.			
40.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
41.	23474 <i>Agrostocrinum hirsutum</i>			
42.	185 <i>Aira cupaniana</i> (Silvery Hairgrass)	Y		
43.	1732 <i>Allocasuarina humilis</i> (Dwarf Sheoak)			
44.	27581 <i>Amandinea punctata</i>			
45.	20184 <i>Amphipogon laguroides</i> subsp. <i>laguroides</i>			
46.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
47.	6306 <i>Andersonia caerulea</i> (Foxtails)			
48.	6312 <i>Andersonia involucrata</i>			
49.	11261 <i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
50.	24088 <i>Antechinus flavipes</i> subsp. <i>leucogaster</i> (Yellow-footed Antechinus, Mardo)			
51.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
52.	3688 <i>Aotus gracillima</i>			
53.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
54.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
55.	<i>Artoriopsis expolita</i>			
56.	42140 <i>Astroloma acervatum</i>			
57.	6325 <i>Astroloma drummondii</i>			
58.	6334 <i>Astroloma pallidum</i> (Kick Bush)			
59.	42106 <i>Austroparmelia conlabrosa</i>			
60.	43941 <i>Austroparmelia subarida</i>			
61.	17245 <i>Austrostipa mollis</i>			
62.	36441 <i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
63.	<i>Baetidae</i> sp.			
64.	32678 <i>Banksia bipinnatifida</i> subsp. <i>bipinnatifida</i>			
65.	32616 <i>Banksia dallanneyi</i> subsp. <i>sylvestris</i>			
66.	17108 <i>Banksia meisneri</i> subsp. <i>meisneri</i>			
67.	12111 <i>Banksia sphaerocarpa</i> var. <i>sphaerocarpa</i> (Fox Banksia)			
68.	32315 <i>Barbula calycina</i>			
69.	<i>Barnardius zonarius</i>			
70.	48868 <i>Bellardia viscosa</i>	Y		
71.	3157 <i>Billardiera floribunda</i> (White-flowered Billardiera)			
72.	25788 <i>Billardiera fraseri</i> (Elegant Pronaya)			
73.	25798 <i>Billardiera fusiformis</i> (Australian Bluebell)			
74.	24319 <i>Biziura lobata</i> (Musk Duck)			
75.	4413 <i>Boronia crenulata</i> (Aniseed Boronia)			
76.	11503 <i>Boronia crenulata</i> subsp. <i>crenulata</i> var. <i>crenulata</i>			
77.	4420 <i>Boronia fastigiata</i> (Bushy Boronia)			
78.	4428 <i>Boronia megastigma</i> (Scented Boronia)			
79.	4429 <i>Boronia molloyae</i> (Tall Boronia)			
80.	4430 <i>Boronia nematophylla</i>			
81.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
82.	4441 <i>Boronia spathulata</i> (Boronia)			
83.	14396 <i>Bossiaea aquifolium</i> subsp. <i>aquifolium</i>			
84.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
85.	3713 <i>Bossiaea linophylla</i>			
86.	3714 <i>Bossiaea ornata</i> (Broad Leaved Brown Pea)			
87.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
88.	245 <i>Briza minor</i> (Shivery Grass)	Y		
89.	27597 <i>Buellia disciformis</i>			
90.	27598 <i>Buellia dissa</i>			
91.	12770 <i>Burchardia congesta</i>			
92.	25715 <i>Cacatua roseicapilla</i> (Galah)			
93.	<i>Caenidae</i> sp.			
94.	1276 <i>Caesia micrantha</i> (Pale Grass Lily)			
95.	1277 <i>Caesia occidentalis</i>			
96.	1580 <i>Caladenia cairnsiana</i> (Zebra Orchid)			
97.	1586 <i>Caladenia discoidea</i> (Dancing Orchid)			
98.	15350 <i>Caladenia flava</i> subsp. <i>sylvestris</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
99.	1603 <i>Caladenia longiclavata</i> (Clubbed Spider Orchid)			
100.	1604 <i>Caladenia macrostylis</i> (Leaping Spider Orchid)			
101.	1605 <i>Caladenia marginata</i> (White Fairy Orchid)			
102.	1609 <i>Caladenia pectinata</i> (King Spider Orchid)			
103.	1613 <i>Caladenia reptans</i> (Little Pink Fairy Orchid)			
104.	15377 <i>Caladenia reptans</i> subsp. <i>reptans</i>			
105.	45758 <i>Calectasia demarzii</i> (Demarz's Tinsel Lily)			
106.	5394 <i>Callistemon glaucus</i>			
107.	41653 <i>Caloplaca kaernefeltii</i>			
108.	<i>Caloplaca</i> sp.			
109.	5416 <i>Calothamnus lehmannii</i>			
110.	16493 <i>Calycopeplus oligandrus</i>			
111.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
112.	48450 <i>Calytrix cravenii</i>			
113.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
114.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
115.	35322 <i>Centranthus ruber</i> subsp. <i>ruber</i>	Y		
116.	1133 <i>Centrolepis pilosa</i>			
117.	<i>Ceratopogonidae</i> sp.			
118.	24086 <i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)			
119.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
120.	24187 <i>Chalinolobus morio</i> (Chocolate Wattled Bat)			
121.	18156 <i>Chamaecytisus palmensis</i> (Tagasaste)	Y		
122.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
123.	<i>Chironominae</i> sp.			
124.	8971 <i>Chorizema cordatum</i>			
125.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
126.	25601 <i>Chrysococcyx lucidus</i> (Shining Bronze Cuckoo)			
127.	24432 <i>Chrysococcyx lucidus</i> subsp. <i>plagosus</i> (Shining Bronze Cuckoo)			
128.	27663 <i>Cladia aggregata</i>			
129.	<i>Coenagrionidae</i> sp.			
130.	27706 <i>Collema leucocarpum</i>			
131.	4564 <i>Comesperma virgatum</i> (Milkwort)			
132.	<i>Coniophora olivacea</i>			
133.	16850 <i>Conospermum flexuosum</i> subsp. <i>laevigatum</i>			
134.	11826 <i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
135.	1447 <i>Conostylis pusilla</i>			
136.	1453 <i>Conostylis serrulata</i>			
137.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
138.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
139.	<i>Corduliidae</i> sp.			
140.	<i>Corixidae</i> sp.			
141.	25592 <i>Corvus coronoides</i> (Australian Raven)			
142.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
143.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
144.	13484 <i>Cryptandra arbutiflora</i> var. <i>tubulosa</i>			
145.	25049 <i>Ctenotus labillardieri</i>			
146.	15114 <i>Cyanicula gemmata</i>			
147.	15404 <i>Cyanicula sericea</i>			
148.	768 <i>Cyathochaeta avenacea</i>			
149.	10916 <i>Cyrtostylis huegelii</i>			
150.	17692 <i>Cytogonidium leptocarpoides</i>			
151.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
152.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
153.	7462 <i>Dampiera pedunculata</i>			
154.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
155.	3799 <i>Daviesia cordata</i> (Bookleaf)			
156.	3800 <i>Daviesia costata</i>			
157.	15505 <i>Daviesia incrassata</i> subsp. <i>incrassata</i>			
158.	3835 <i>Daviesia preissii</i>			
159.	<i>Dingosa serrata</i>			
160.	41403 <i>Diplodactylus calcicolus</i> (South Coast Gecko)			
161.	9027 <i>Diplolaena drummondii</i>			
162.	15268 <i>Diplolaena graniticola</i>			
163.	19649 <i>Disa bracteata</i>	Y		
164.	10791 <i>Diuris carinata</i> (Bee Orchid)			
165.	15436 <i>Diuris porrifolia</i>			
166.	1640 <i>Drakaea glyptodon</i> (King-in-his-carriage)			
167.	11156 <i>Drakaea livida</i>			
168.	3097 <i>Drosera gigantea</i> (Giant Sundew)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
169.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
170.	3102 <i>Drosera huegelii</i> (Bold Sundew)			
171.	3124 <i>Drosera pulchella</i> (Pretty Sundew)			
172.	<i>Dytiscidae</i> sp.			
173.	<i>Ecnomidae</i> sp.			
174.	<i>Edelia vittata</i>			
175.	25100 <i>Egernia napoleonis</i>			
176.	24290 <i>Elanus caeruleus</i> subsp. <i>axillaris</i> (Australian Black-shouldered Kite)			
177.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
178.	1644 <i>Elythranthera emarginata</i> (Pink Enamel Orchid)			
179.	<i>Eolophus roseicapillus</i>			
180.	24652 <i>Eopsaltria georgiana</i> (White-breasted Robin)			
181.	14104 <i>Eremaea pauciflora</i> var. <i>pauciflora</i>			
182.	45243 <i>Ericomyrtus parviflora</i>			
183.	15413 <i>Eriochilus dilatatus</i> subsp. <i>undulatus</i>			
184.	1647 <i>Eriochilus scaber</i> (Pink Bunny Orchid)			
185.	15415 <i>Eriochilus scaber</i> subsp. <i>scaber</i>			
186.	<i>Eriophora biapicata</i>			
187.	4332 <i>Erodium botrys</i> (Long Storksbill)	Y		
188.	5628 <i>Eucalyptus drummondii</i> (Drummond's Gum)			
189.	5709 <i>Eucalyptus megacarpa</i> (Bullich, Pulidj)			
190.	4624 <i>Euphorbia dendroides</i>	Y		
191.	3880 <i>Eutaxia virgata</i>			
192.	25621 <i>Falco berigora</i> (Brown Falcon)			
193.	24041 <i>Felis catus</i> (Cat)	Y		
194.	27746 <i>Flavoparmelia marchantii</i>			
195.	25727 <i>Fulica atra</i> (Eurasian Coot)			
196.	902 <i>Gahnia decomposita</i>			
197.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
198.	20475 <i>Gastrolobium capitatum</i>			
199.	20473 <i>Gastrolobium ebracteolatum</i>			
200.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
201.	33620 <i>Glischrocaryon angustifolium</i>			
202.	<i>Gomphidae</i> sp.			
203.	6587 <i>Gomphocarpus fruticosus</i> (Narrowleaf Cottonbush)	Y		
204.	3947 <i>Gompholobium burtonioides</i>			
205.	3948 <i>Gompholobium capitatum</i>			
206.	3950 <i>Gompholobium knightianum</i>			
207.	3951 <i>Gompholobium marginatum</i>			
208.	3953 <i>Gompholobium ovatum</i>			
209.	11083 <i>Gompholobium scabrum</i>			
210.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
211.	29362 <i>Goodenia coerulea</i>			
212.	7505 <i>Goodenia eatoniana</i>			
213.	19286 <i>Goodenia pulchella</i> subsp. <i>Coastal Plain A</i> (M. Hislop 634)			
214.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
215.	13085 <i>Grevillea centristigma</i>			
216.	13427 <i>Grevillea manglesioides</i> subsp. <i>manglesioides</i>			
217.	2080 <i>Grevillea quercifolia</i> (Oak-leaf Grevillea)			
218.	2175 <i>Hakea lissocarpha</i> (Honey Bush)			
219.	2203 <i>Hakea ruscifolia</i> (Candle Hakea)			
220.	2214 <i>Hakea trifurcata</i> (Two-leaf Hakea)			
221.	6839 <i>Hemiandra pungens</i> (Snakebush)			
222.	30919 <i>Hemiergis gracilipes</i> (skink)			
223.	25115 <i>Hemiergis initialis</i> subsp. <i>initialis</i>			
224.	6856 <i>Hemigenia incana</i> (Silky Hemigenia)			
225.	6866 <i>Hemigenia pritzelii</i>			
226.	<i>Heurodes turritus</i>			
227.	5109 <i>Hibbertia amplexicaulis</i>			
228.	48331 <i>Hibbertia depilipes</i>			
229.	20051 <i>Hibbertia diamesogenos</i>			
230.	5125 <i>Hibbertia ferruginea</i>			
231.	20059 <i>Hibbertia hemignosta</i>			
232.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
233.	20032 <i>Hibbertia pulchra</i> var. <i>pulchra</i>			
234.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
235.	5170 <i>Hibbertia silvestris</i>			
236.	5172 <i>Hibbertia stellaris</i> (Orange Stars)			
237.	5176 <i>Hibbertia vaginata</i>			
238.	47965 <i>Hieraetus morphnoides</i> (Little Eagle)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
239.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
240.	6222 <i>Homalosciadium homalocarpum</i>			
241.	5816 <i>Homalospermum firmum</i>			
242.	3968 <i>Hovea trisperma</i> (Common Hovea)			
243.	12741 <i>Hyalosperma cotula</i>			
244.	5218 <i>Hybanthus debilissimus</i>			
245.	12007 <i>Hybanthus floribundus</i> subsp. <i>floribundus</i>			
246.	<i>Hydnangium carneum</i>			
247.	6223 <i>Hydrocotyle alata</i>			
248.	<i>Hydrophilidae</i> sp.			
249.	<i>Hydroptilidae</i> sp.			
250.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
251.	5818 <i>Hypocalymma cordifolium</i>			
252.	1070 <i>Hypolaena exsulca</i>			
253.	<i>Hyriidae</i> sp.			
254.	912 <i>Isolepis cyperoides</i>			
255.	<i>Isopeda leishmanni</i>			
256.	8844 <i>Isopogon crithmifolius</i>			
257.	45553 <i>Isopogon spathulatus</i>			
258.	2238 <i>Isopogon teretifolius</i> (Nodding Coneflower)			
259.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
260.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
261.	1534 <i>Ixia polystachya</i> (Variable Ixia)	Y		
262.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
263.	<i>Jamesoniella colorata</i>			
264.	1178 <i>Juncus bufonius</i> (Toad Rush)	Y		
265.	1188 <i>Juncus pallidus</i> (Pale Rush)			
266.	4036 <i>Kennedia carinata</i>			
267.	4037 <i>Kennedia coccinea</i> (Coral Vine)			
268.	5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)			
269.	15498 <i>Kunzea glabrescens</i> (Spearwood)			
270.	5841 <i>Kunzea recurva</i>			
271.	3669 <i>Labichea punctata</i> (Lance-leaved Cassia)			
272.	6777 <i>Lachnostachys albicans</i>			
273.	18585 <i>Lagenophora huegelii</i>			
274.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
275.	1309 <i>Laxmannia squarrosa</i>			
276.	7568 <i>Lechenaultia biloba</i> (Blue Leschenaultia)			
277.	27818 <i>Lecidea capensis</i>			
278.	27828 <i>Lecidea tragorum</i>			
279.	936 <i>Lepidosperma leptostachyum</i>			
280.	<i>Lepidosperma</i> sp.			
281.	29150 <i>Lepidosperma</i> sp. Margaret River (B.J. Lepschi 1841)			
282.	948 <i>Lepidosperma tetraquetrum</i>			
283.	1653 <i>Leporella fimbriata</i> (Hare Orchid)			
284.	48819 <i>Lepra scaberula</i>			
285.	46379 <i>Leptocarpus thysananthus</i>			
286.	15418 <i>Leptoceras menziesii</i>			
287.	<i>Leptoceridae</i> sp.			
288.	2342 <i>Leptomera cunninghamii</i>			
289.	<i>Leptophlebiidae</i> sp.			
290.	5847 <i>Leptospermum erubescens</i> (Roadside Teatree)			
291.	1088 <i>Lepyrodia macra</i> (Large Scale Rush)			
292.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
293.	6367 <i>Leucopogon capitellatus</i>			
294.	6396 <i>Leucopogon glabellus</i>			
295.	6425 <i>Leucopogon oxycedrus</i>			
296.	6428 <i>Leucopogon pendulus</i>			
297.	6436 <i>Leucopogon propinquus</i>			
298.	6441 <i>Leucopogon reflexus</i> (Heart-leaf Beard-heath)			
299.	6444 <i>Leucopogon sprengeloides</i>			
300.	6447 <i>Leucopogon strictus</i>			
301.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
302.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
303.	<i>Libellulidae</i> sp.			
304.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
305.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
306.	476 <i>Lolium perenne</i> (Perennial Ryegrass)	Y		
307.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
308.	1229 <i>Lomandra integra</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
309.	1234 <i>Lomandra nigricans</i>			
310.	1239 <i>Lomandra preissii</i>			
311.	1240 <i>Lomandra purpurea</i> (Purple Mat Rush)			
312.	1243 <i>Lomandra sericea</i> (Silky Mat Rush)			
313.	<i>Longepi woodman</i>			
314.	18049 <i>Lyginia imberbis</i>			
315.	1656 <i>Lyperanthus serratus</i> (Rattle Beak Orchid)			
316.	34736 <i>Lysinema pentapetalum</i>			
317.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
318.	25650 <i>Malurus elegans</i> (Red-winged Fairy-wren)			
319.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
320.	77 <i>Marsilea mutica</i>			
321.	5921 <i>Melaleuca incana</i> (Grey Honeymyrtle)			
322.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
323.	5952 <i>Melaleuca preissiana</i> (Moonah)			
324.	5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
325.	13280 <i>Melaleuca viminea</i> subsp. <i>viminea</i>			
326.	27852 <i>Menegazzia caesiopruinosa</i>			
327.	27853 <i>Menegazzia fertilis</i>			
328.	6883 <i>Mentha pulegium</i> (Pennyroyal)	Y		
329.	957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)			
330.	<i>Microcarbo melanoleucos</i>			
331.	34158 <i>Microtis alboboviridis</i>			
332.	4090 <i>Mirbelia dilatata</i> (Holly-leaved Mirbelia)			
333.	25240 <i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)			
334.	24223 <i>Mus musculus</i> (House Mouse)	Y		
335.	6189 <i>Myriophyllum crispatum</i>			
336.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
337.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
338.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
339.	27881 <i>Ochrolechia pallescens</i>			
340.	14292 <i>Oenothera stricta</i> subsp. <i>stricta</i>	Y		
341.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
342.	8143 <i>Olearia paucidentata</i> (Autumn Scrub Daisy)			
343.	<i>Oligochaeta</i> sp.			
344.	18254 <i>Opercularia apiciflora</i>			
345.	46316 <i>Orianthera serpyllifolia</i> subsp. <i>angustifolia</i>			
346.	<i>Orthoclaadiinae</i> sp.			
347.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
348.	24692 <i>Pachyptila belcheri</i> (Slender-billed Prion)			
349.	<i>Palaemonidae</i> sp.			
350.	1667 <i>Paracaleana nigrita</i> (Flying Duck Orchid)			
351.	<i>Parastacidae</i> sp.			
352.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
353.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
354.	7089 <i>Parentucella latifolia</i> (Common Bartsia)	Y		
355.	27923 <i>Parmotrema cooperi</i>			
356.	1542 <i>Patersonia babianoides</i>			
357.	11550 <i>Patersonia umbrosa</i> var. <i>xanthina</i> (Yellow Flags)			
358.	27938 <i>Peltula obscurans</i>			
359.	6246 <i>Pentapeltis silvatica</i> (Southern Pentapeltis)			
360.	16478 <i>Pericalymma ellipticum</i> var. <i>floridum</i>			
361.	15501 <i>Pericalymma spongiocaula</i>			
362.	2262 <i>Persoonia elliptica</i> (Spreading Snottygobble)			
363.	<i>Perthiidae</i> sp.			
364.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
365.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
366.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
367.	18532 <i>Philothea nodiflora</i> subsp. <i>lasiocalyx</i>			
368.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
369.	1478 <i>Phlebocarya ciliata</i>			
370.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
371.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
372.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
373.	4141 <i>Phyllota gracilis</i>			
374.	<i>Phytophthora cinnamomi</i>			
375.	5231 <i>Pimelea angustifolia</i> (Narrow-leaved Pimelea)			
376.	11182 <i>Pimelea lehmanniana</i> subsp. <i>nervosa</i>			
377.	48975 <i>Pisolithus microcarpus</i>			
378.	42260 <i>Pithocarpa ramosa</i>			

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379.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
380.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
381.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
382.	4524 <i>Platytheca galioides</i>			
383.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
384.	<i>Podykipus leptoiuloides</i>			
385.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
386.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
387.	15424 <i>Praecoxanthus aphyllus</i>			
388.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			
389.	41995 <i>Protoparmelia hesperia</i>			
390.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
391.	1686 <i>Pterostylis barbata</i> (Bird Orchid)			
392.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
393.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
394.	4177 <i>Pultenaea ochreatea</i>			
395.	<i>Purpureicephalus spurius</i>			
396.	48803 <i>Pyxine soredata</i>			
397.	28224 <i>Ramalina inflata</i> subsp. <i>australis</i>			
398.	41243 <i>Ramboldia laeta</i>			
399.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
400.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
401.	<i>Richardsonianidae</i> sp.			
402.	6022 <i>Rinzia fumana</i> (Polished Rinzia)			
403.	20506 <i>Rubus anglocandicans</i>	Y		
404.	7602 <i>Scaevola calliptera</i>			
405.	7613 <i>Scaevola glandulifera</i> (Viscid Hand-flower)			
406.	7646 <i>Scaevola striata</i> (Royal Robe)			
407.	984 <i>Schoenus curvifolius</i>			
408.	1017 <i>Schoenus subbulbosus</i>			
409.	32434 <i>Sematophyllum subhumile</i>			
410.	8203 <i>Senecio diaschides</i>			
411.	7362 <i>Sherardia arvensis</i> (Field Madder)	Y		
412.	8224 <i>Siloxerus filifolius</i>			
413.	30948 <i>Smicronis brevirostris</i> (Weebill)			
414.	10920 <i>Soliva sessilis</i> (Jo-jo, Onehunga Weed)	Y		
415.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
416.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
417.	17551 <i>Sphaerolobium drummondii</i>			
418.	4207 <i>Sphaerolobium medium</i>			
419.	31931 <i>Sphenotoma capitata</i>			
420.	31952 <i>Sphenotoma gracilis</i> (Swamp Paper-heath)			
421.	4716 <i>Stachystemon vermicularis</i>			
422.	9069 <i>Stackhousia huegelii</i>			
423.	24645 <i>Stagonopleura oculata</i> (Red-eared Firetail)			
424.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
425.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
426.	17666 <i>Stylidium amoenum</i> var. <i>amoenum</i>			
427.	30278 <i>Stylidium androsaceum</i>			
428.	7702 <i>Stylidium ciliatum</i> (Golden Triggerplant)			
429.	45593 <i>Stylidium tenue</i> subsp. <i>tenue</i> (Little Fountain Triggerplant)			
430.	7808 <i>Stylidium violaceum</i> (Violet Triggerplant)			
431.	6476 <i>Styphelia tenuiflora</i> (Common Pinheath)			
432.	15529 <i>Synaphea floribunda</i>			
433.	12911 <i>Synaphea obtusata</i>			
434.	2324 <i>Synaphea petiolaris</i> (Synaphea)			
435.	32439 <i>Syntrichia papillosa</i>			
436.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
437.	<i>Tanypodinae</i> sp.			
438.	<i>Tasmanicosa leuckartii</i>			
439.	20135 <i>Taxandria linearifolia</i>			
440.	35477 <i>Tephromela alectoronica</i>			
441.	29720 <i>Tetrapora glomerata</i>			
442.	1036 <i>Tetraria octandra</i>			
443.	35579 <i>Tetraria</i> sp. Jarrah Forest (R. Davis 7391)			
444.	48342 <i>Tetratheca hirsuta</i> subsp. <i>hirsuta</i>			
445.	1705 <i>Thelymitra crinita</i> (Blue Lady Orchid)			
446.	1708 <i>Thelymitra fuscolutea</i> (Chestnut Sun Orchid)			
447.	11143 <i>Thelymitra graminea</i>			
448.	1718 <i>Thelymitra villosa</i> (Custard Orchid)			

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449.	<i>Theridion mortuale</i>			Y
450.	5084 <i>Thomasia grandiflora</i> (Large Flowered Thomasia)			
451.	5092 <i>Thomasia pauciflora</i> (Few Flowered Thomasia)			
452.	17391 <i>Thomasia</i> sp. Big Brook (M. Koch 2373)			
453.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
454.	1351 <i>Thysanotus sparteus</i>			
455.	1357 <i>Thysanotus thyrsoides</i>			
456.	25519 <i>Tiliqua rugosa</i>			
457.	8248 <i>Tolpis barbata</i> (Yellow Hawkweed)	Y		
458.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
459.	4548 <i>Tremandra stelligera</i>			
460.	17684 <i>Tremulina tremula</i>			
461.	8251 <i>Trichocline spathulata</i> (Native Gerbera)			
462.	24158 <i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
463.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
464.	1362 <i>Tricoryne humilis</i>			
465.	4295 <i>Trifolium dubium</i> (Suckling Clover)	Y		
466.	4313 <i>Trifolium subterraneum</i> (Subterranean Clover)	Y		
467.	4737 <i>Tripterococcus brunonis</i> (Winged Stackhousia)			
468.	13479 <i>Trymalium ledifolium</i> var. <i>rosmarinifolium</i>			
469.	33438 <i>Trymalium odoratissimum</i> subsp. <i>trifidum</i>			
470.	<i>Urodacus novaehollandiae</i>			
471.	41262 <i>Usnea cornuta</i>			
472.	28086 <i>Usnea dasaea</i>			
473.	28093 <i>Usnea subalpina</i>			
474.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
475.	<i>Venator immansueta</i>			
476.	<i>Venatrix pullastra</i>			
477.	12411 <i>Verticordia densiflora</i> var. <i>cespitosa</i>			
478.	24206 <i>Vespadelus regulus</i> (Southern Forest Bat)			
479.	24040 <i>Vulpes vulpes</i> (Red Fox)	Y		
480.	12052 <i>Vulpia myuros</i> forma <i>megalura</i>	Y		
481.	7388 <i>Wahlenbergia multicaulis</i>			
482.	7389 <i>Wahlenbergia preissii</i>			
483.	13333 <i>Waitzia suaveolens</i> var. <i>suaveolens</i>			
484.	28149 <i>Xanthoparmelia luminosa</i>			
485.	28156 <i>Xanthoparmelia nana</i>			
486.	28163 <i>Xanthoparmelia oleosa</i>			
487.	1253 <i>Xanthorrhoea gracilis</i> (Graceful Grass Tree, Mimidi)			
488.	6283 <i>Xanthosia atkinsoniana</i>			
489.	6289 <i>Xanthosia huegelii</i>			
490.	2331 <i>Xylomelum occidentale</i> (Woody Pear, Djandin)			
491.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
492.	32457 <i>Zygodon intermedius</i>			

Conservation Codes

T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.