



Site Details Report

Date: 09/06/2025

Site reference 61000121 - Swan Coastal Plain - EW15A - EW15A

Alternative Site References

Numbering System	Reference Code	Site Name	Short Name
AWRC	61000121	Swan Coastal Plain - EW15A	EW15A
TEXT	EW15A	Swan Coastal Plain - EW15A	EW15A
TEXT_REF	EW15A	SWAN COASTAL PLAIN - EW15A	EW15A
WIN_ID	23035358		EW15A

General Details

Site Type	Groundwater	Sub Type	Bore or Well	Site Geofeature	Ground
Northing	6274099.5	Easting	367413	Zone	50
Latitude	-33.664732054	Longitude	115.569916993	Spheroid	GDA2020
Thou250 Map Index	SI5006	Geographic Precision (+/- m)	+/-5m		
Local Govt Authority	CITY OF BUSSELTON	Locality	TUTUNUP	DWER Region	South West
Catchment	Vasse Wonnerup Estuary	Estuary		BOM Rainfall District	9A - South Coast
River Basin	610 - Busselton Coast	Groundwater Area	Busselton-Capel	Groundwater Province	Perth
Surface Water Area	Busselton Coast	Surface Water SubArea	Wonnerup	GgStn Catchment Area(km2)	N/A
Site Comment	Bore location surveyed by harvey survey group using a magellan meridian platinum hand-held gps				

Depth Measurement Points (Site reference: 61000121)

Measurement Point Type	Elevation (m as per Datum Plane)	Datum	Measurement Method	Date	Comments
Top of casing	42.039	AHD	Surveyed	02/02/2009	Elevation surveyed by harvey survey group using a trimble dini digital level 03/08/2009
Top of casing	43.165	AHD	Surveyed	07/09/2009	Taller casing and standpipe installed to prevent bore overflowing. Surveyed by dow bunbury



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Drilling (Site reference: 61000121)

From (mbGL)	To (mbGL)	Diameter (mm)	Fluid Name
0.000	12.500	114	Unknown

Borehole Information (Site reference: 61000121)

Completed Date	20/11/2008	Drill Method Name	Sonic		
Owner Name	Department of Water	Drill Rig Name	Unknown		
Drill Company Name	Great Southern Drilling	Total Construction Depth (mbGL)	12	Depth Drilled (mbGL)	12.5
Comments	Bore details added from HR293_Bore Completion Report (Draft); data may need to be confirmed and update if required. Log event: Sonic drill core				

Casing (Site reference: 61000121)

From (mbGL)	To (mbGL)	Element	Material	Inlet Type	Inside Dia. (mm)	Outside Dia. (mm)	Aperture (mm)	Comments
-0.780	0.320	Standpipe	Steel galvanised	Not applicable	100.000			
-0.200	0.000	Surface block	Concrete	Not applicable				
0.000	7.800	Casing	PVC - Class 18	Not applicable	50.000			
7.800	12.000	Inlet (screen)	PVC - Class 18	Slotted	50.000		0.400	
12.000	12.000	End cap	PVC - Class 18	Not applicable	50.000			

Fill (Site reference: 61000121)

From (mbGL)	To (mbGL)	Fill Type	Material Type	Fill Volume (m3)	Grain Size (mm)
0.000	7.500	Seal	Cement	0.05	
7.500	12.000	Annular Fill	Gravel	0.03	
12.000	12.500	Void Fill	Collapsed formn	0.01	



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Aquifers (Site reference: 61000121)

Aquifer Name	Depth From/To (mbGL)	Comments
Perth-Superficial	-	

Lithology Log (Site reference: 61000121)

From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
0.000	0.350	Geologist--Internal staff	Soil	Soil and ferricrete : munsell colour 5yr 3/4 dark reddish brown. Soil with subordinate ferricrete. Ferricrete is matrix supported. Clasts are medium grained sub-rounded quartz. Some areas are very hard and haematitic. Becoming more goethitic with depth. Some specular haematite observed.
0.350	2.000	Geologist--Internal staff	Ferricrete	Ferricrete : munsell colour 5yr 4/6 yellowish red. As above but without soil. Some areas are crumbly and can be broken by hand; other sections are very hard. Goethite in fractures and soft areas. Rare concretionary; circular layering seen from 1.5m. Common dry powder assumed to be crushed by the drilling; 1 - 1.27m is wet crushed material; now like clay. Sand grains are more abundant from 2.75m.
2.000	2.850	Geologist--Internal staff	Ferricrete	Ferricrete : munsell colour 5yr 5/6 yellowish red. Clast supported; rounded to sub-rounded quartz. Grains are very intensely stained. Hard consolidated sections stuck together by sandy/clay. Water added in drilling procedure.
2.850	4.500	Geologist--Internal staff	Sand	Sand and ferricrete : munsell colour 5yr 5/6 yellowish red. Sand in the ferricrete and unconsolidated is the same. Medium grained; rounded to sub-rounded; moderately spherical quartz. Strong goethite and haematite throughout. Some ferricrete fragments ranging from coarse grained to cobble sized. The ferricrete is clast supported. Sample is wet; possible due to drillers putting water down hole.
4.500	5.000	Geologist--Internal staff	Sand	Clayey sand : munsell colour gley#1 10gy 7/1 light greenish grey. Around 30% clay by volume. Very fine to medium grained. Sand grains are rounded to sub-rounded quartz ~ 87%; sub-angular feldspars ~ 5%; fine grained black minerals ~ 7%; rare green grains. Around 2% of quartz grains are iron stained.
5.000	6.650	Geologist--Internal staff	Clay	Sandy clay : munsell colour gley#1 10gy 7/1 light greenish grey. Over 55% clay by field texture test. Some sandy intervals. Grades into a clay from the sand above. Sand fraction as above.
6.650	6.700	Geologist--Internal staff	Ferricrete	Ferricrete : munsell colour 5yr 3/2 dark reddish brown. Gradational from 5yr 3/2 to 7.5yr 5/6. Discrete layer of ferricrete; as at 2 - 2.85m.
6.700	6.800	Geologist--Internal staff	Sand	Sand and ferricrete : munsell colour 7.5yr 5/6 strong brown. Poorly sorted; fine grained to granular size. Sub-rounded quartz; sub-angular coarse grained feldspars (7%); ferricrete fragments are medium grained to cobble sized. Wet; unconsolidated and slightly sticky.
6.800	7.500	Geologist--Internal staff	Clay	Clay : munsell colour gley#1 10gy 7/1 light greenish grey. Firm; plastic and moist. Small (<1cm) ferricrete nodules occur throughout; but not common. Minor sand component. Common black flecks (?)carbon.
7.500	7.800	Geologist--Internal staff	Clay	Clay : munsell colour 7.5yr 5/1 grey. Gradational upper contact. Sharp lower contact. Clay as above only darker.



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From (mbGL)	To (mbGL)	Interpreted By	Substance	Lithological Description
7.800	8.550	Geologist--Internal staff	Sand	Sand : munsell colour 7.5yr 6/2 pinkish grey. Fine to medium grained; rounded; spherical quartz; angular to sub-angular feldspar (10%); fine grained black mineral (7%); rare medium to coarse grained ferricret fragments (3%). Wet and soft.
8.550	8.700	Geologist--Internal staff	Sand	Sand : munsell colour 10yr 2/2 very dark brown. Gradational colour change from above. Fine to coarse grained rounded spherical quartz; mostly medium to light grey. Medium to coarse grained angular dark grey grains (3%). Abundant black minerals. Some lath shaped and rounded feldspar (5%). Mica ~3%.
8.700	9.390	Geologist--Internal staff	Sand	Sand : munsell colour 2.5yr 4/1 dark reddish grey. As at 7.8 - 8.55m but with ~3% mica. Well sorted. Coarse to medium grained at the base; fining upwards to medium to fine grained at the top. Note: sieve size is 106um; therefore many more fine grained black minerals could have passed through.
9.390	9.700	Geologist--Internal staff	Sand	Sand : munsell colour 5y 3/1 very dark grey. As above but with abundant organic matter. Peaty; fibrous (?) roots throughout. Well rounded spherical quartz; sub-angular to rounded white mineral (?) feldspar (5%); abundant fine grained rounded black mineral (10%); 3% mica; 2% iron stained grains. Fining upwards from 9.39 - 9.7m.
9.700	10.380	Geologist--Internal staff	Sand	Sand : munsell colour 5y 3/1 very dark grey. Gradational from 5y 3/1 to 2.5y 5/1. Sand composition as above. Some areas are rich in organic matter; others only rare lignite. Dark grey; often angular mineral with an opaline; pearly luster is present (2%).
10.380	11.300	Geologist--Internal staff	Sand	Sand : munsell colour 5y 3/1 very dark grey. Very fine grained sand; composition as above. Rare coarse to very coarse grained rounded quartz. Rare green mineral. Common lignitic/organic material <1cm.
11.300	11.550	Geologist--Internal staff	Clay	Clay : munsell colour 5y 2.5/1 black. Grades into a clay from above sand. Over 55% clay by roll test. Soft; moist; plastic; sulfidic.
11.550	12.260	Geologist--Internal staff	Clay	Peaty clay : munsell colour 2.5yr 2.5/1 reddish black. Spongy. Wet in parts; moist in others. Friable and fissile in sections; with large lignitic pieces of wood common. Sharp upper and lower contacts.
12.260	12.380	Geologist--Internal staff	Sand	Sand : coarse grained to granular. Poorly sorted. Very large non-spherical feldspars >6mm and quartz >11mm. Mica; lignitic material; black minerals and iron stained grained as before. Some medium grained; metallic minerals. Pyrite cemented sand segments range from small pebbles to small cobble sized.
12.380	12.500	Geologist--Internal staff	Sand	Sand : e.O.H. Sand as above; no pyrite cement.



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Stratigraphy Log (Site reference: 61000121)

From (mbGL)	To (mbGL)	Interpreted By	Interpreted Date	Stratigraphy	Lithology1	Lithology2	Lithology3
0.000	6.800	Geologist--Internal staff	16/07/2009	(none)	ferricrete	sand	Not specified
6.800	7.800	Geologist--Internal staff	16/07/2009	(none)	clay	Not specified	Not specified
7.800	11.300	Geologist--Internal staff	16/07/2009	(none)	sand	Not specified	Not specified
11.300	12.260	Geologist--Internal staff	16/07/2009	(none)	peat	clay	sand
12.260	12.500	Geologist--Internal staff	16/07/2009	? Leederville Fm	sandstone	Not specified	Not specified



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Advanced Data Summary (Site reference: 61000121 WIN Site ID: 61000121)

Readings by Project

Default Site Reference	Project Code	Project Name	First Measurement	Last Measurement	No of Measurements
61000121	SW-G-GMSW	Groundwater Monitoring South West Region	15/11/2010	27/05/2025	33
61000121	SW-G-SWGAGDE	Investigation of GDEs in South West Groundwater	2/02/2009	4/06/2010	30
61000121	SW-G-SWGAGDE	Investigation of GDEs in South West Groundwater	17/11/2008	14/12/2009	676
61000121	WA-S-TSDATA	WA State-wide Time Series Data Collection	2/08/2010	8/04/2024	22916

Readings by Data Category

Default Site Reference	Data Category	First Measurement	Last Measurement	No of Measurements
61000121	Water level-flow - TS archive	2/08/2010	8/04/2024	22916
61000121	Water levels - discrete	2/02/2009	27/05/2025	63
61000121	Water levels - discrete	25/11/2008	25/11/2008	1
61000121	Water quality indicators - discrete	17/11/2008	14/12/2009	675

Readings By Variable Type

Default Site Reference	Variable Type	First Measurement	Last Measurement	No of Measurements
61000121	A discrete (non-continuous) water level-related value (includes derived flow)	25/11/2008	25/11/2008	1
61000121	Inorganic metals	17/11/2008	18/11/2008	132
61000121	Inorganic non-metals	17/11/2008	18/11/2008	158
61000121	Physical	17/11/2008	14/12/2009	385
61000121	Time series water levels	2/08/2010	8/04/2024	22916
61000121	Water level (discrete)	2/02/2009	27/05/2025	63