

ATTACHMENTS

Ordinary Meeting of Council

Tuesday 26 June 2018

6.00pm

City of Albany Council Chambers

ORDINARY COUNCIL MEETING ATTACHMENTS – 26/06/2018

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City of Albany

MONTHLY FINANCIAL REPORT

For the Period Ended 30th April 2018

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City of Albany Compilation Report For the Period Ended 30th April 2018

Report Purpose

This report is prepared to meet the requirements of Local Government (Financial Management) Regulations 1996, Regulation 34 .

Overview

No matters of significance are noted.

Statement of Financial Activity by reporting nature or type

Is presented on page 3 and shows a surplus For the Period Ended 30th April 2018 of \$10,308,362.

Note: The Statements and accompanying notes are prepared based on all transactions recorded at the time of preparation and may vary.

Preparation

Prepared by: D Olde Reviewed by: D Olde Date prepared: 17/05/2018

City of Albany STATEMENT OF FINANCIAL ACTIVITY (Nature or Type) For the Period Ended 30th April 2018

		Original	Revised	YTD	YTD			
		Annual	Annual	Budget	Actual	Var. \$	Var. %	
		Budget	Budget	(a)	(b)	(b)-(a)	(b)-(a)/(a)	
	Note							
Operating Revenues			\$	\$	\$	\$	%	
Rate Revenue		35,461,300	35,476,311	35,291,674	35,297,674	6,000	0.0%	
Grants & Subsidies		3,184,285	3,556,290	2,404,621	2,391,820	(12,801)	(0.5%)	
Contributions, Donations & Reimbursements		648,959	773,959	719,789	859,858	140,069	19.5%	
Profit on Asset Disposal		15.872	15.872	13,220	56,389	43,169	326.5%	
Fees and Charges		17,105,686	17.263.686	15,488,028	15,785,225	297,197	1.9%	
Interest Earnings		1 134 492	1 134 492	1 098 634	1 117 124	18 490	1.7%	_
Other Revenue		364 522	364 522	281 027	212 661	(60,266)	(24.6%)	
Total		57 015 116	59 595 132	55 207 803	55 720 752	(03,200)	(24.070)	
Operating Expanse		57,515,110	30,303,132	55,257,055	55,720,752	422,055		
		(00.000.000)	(00 454 404)	(01.005.010)	(00.964.599)	E04 225	2 40/	•
Employee Costs		(20,369,593)	(26,454,104)	(21,365,913)	(20,861,588)	504,325	2.4%	•
Materials and Contracts		(17,285,414)	(18,168,193)	(13,601,556)	(13,533,702)	67,854	0.5%	
Utilities Charges		(1,850,099)	(2,000,099)	(1,483,853)	(1,421,168)	62,685	4.2%	
Depreciation (Non-Current Assets)		(16,910,453)	(17,455,431)	(14,546,210)	(14,871,678)	(325,468)	(2.2%)	
Interest Expenses		(871,085)	(871,085)	(491,058)	(471,042)	20,016	4.1%	
Insurance Expenses		(708,302)	(708,302)	(685,522)	(668,946)	16,576	2.4%	
Loss on Asset Disposal		(608,999)	(1,689,448)	(1,587,739)	(1,587,895)	(156)	(0.0%)	
Other Expenditure		(2,911,281)	(3,013,825)	(2,334,929)	(2,356,775)	(21,846)	(0.9%)	
Less Allocated to Infrastructure		858,143	858,143	714,590	897,650	183,060	25.6%	
Total		(66,657,083)	(69,502,345)	(55,382,190)	(54,875,145)	507,045		
Contributions for the Development of Assets								
Grants & Subsidies		8 164 879	11 256 082	4 962 994	5.024.481	61 487	1.2%	
Contributions Donations & Reimbursements		550,000	656 545	156 545	438 976	282 431	180.4%	
Contributions, Donations & Reimbursements		550,000	000,040	100,040	430,370	202,401	100.470	-
Net Operating Result		(27.088)	995 /15	5 035 242	6 309 064	1 273 822		
Net Operating Result		(21,000)	333,413	3,033,242	0,303,004	1,275,022		
Funding Palance Adjustment								
Add Dade Deservices		10.010.150	17 155 101			005 100	0.00/	
Add Back Depreciation		16,910,453	17,455,431	14,546,210	14,871,678	325,468	2.2%	
Adjust (Profit)/Loss on Asset Disposal		593,127	1,673,576	1,574,519	1,531,506	(43,013)	(2.7%)	
Add back Carrying Value of Investment Land		0	82,000	82,000	82,000	0	0.0%	
Funds Demanded From Operations		17,476,492	20,206,422	21,237,971	22,794,249	1,556,277		
Capital Revenues								
Proceeds from Disposal of Assets		694,888	783,224	706,880	577,577	(129,303)	(18.3%)	▼
Total		694,888	783,224	706,880	577,577	(129,303)		
Acquisition of Fixed Assets								
Land and Buildings	5	(7,969,596)	(9,590,697)	(5,487,294)	(5,518,654)	(31,360)	(0.6%)	
Plant and Equipment	5	(3.468.782)	(3.622.082)	(1.819.776)	(1.528.664)	291,112	16.0%	▼
Furniture and Equipment	5	(636,900)	(711.900)	(453.848)	(472.347)	(18,499)	(4.1%)	
Infrastructure Assets - Roads	5	(5 676 799)	(5,993,349)	(3 151 337)	(2 635 835)	515 502	16.4%	T
Infrastructure Assets - Other	5	(7,139,149)	(12 846 698)	(4 677 596)	(4,345,774)	331 822	7 1%	v
Total	Ŭ	(24 891 226)	(32 764 726)	(15 589 851)	(14 501 275)	1 088 576	7.170	•
Financing/Borrowing		(24,001,220)	(02,104,120)	(10,000,001)	(14,001,210)	1,000,070		
Phancing/Borrowing Debt Pedemetion		(0.046.064)	(0.406.646)	(1.051.004)	(4.054.640)	(2.705)	(0.29()	
		(2,210,301)	(2,130,010)	(1,201,004)	(1,254,619)	(2,705)	(0.2%)	
Colf Currenting Lean Dringing		2,120,000	3,920,000	0	10 000	0	(40,40())	
		12,120	12,120	10,100	12,026	1,926	(19.1%)	
lotal		(84,241)	1,795,504	(1,241,734)	(1,242,593)	(859)		
Demand for Resources		(6,804,087)	(9,979,577)	5,113,266	7,627,958	2,514,691		
Restricted Funding Movements								
Opening Funding Surplus(Deficit)		2,230,734	2,668,285	2,668,285	2,680,404	12,119	0.5%	
Restricted Cash Utilised - Loan		547,125	841,758	0	0	0		
Transfer to Reserves		(11,901.803)	(12,036.684)	0	0	0		
Transfer from Reserves		15,928.031	18,506.217	0	0	0		
		.,,	-,,		, , , , , , , , , , , , , , , , , , ,			
Closing Funding Surplus(Deficit)	2	0	0	7.781.551	10,308.362	2,526.811		

City of Albany NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY For the Period Ended 30th April 2018

Note 1: EXPLANATION OF MATERIAL VARIANCES IN EXCESS OF \$100,000

	Var.	Var.	Timing/ Permanent	Explanation of Variance
	\$			
1.1 Operating Revenues				
Rate Revenue	6,000			No material variance.
Grants & Subsidies	(12,801)			No material variance.
Contributions, Donations & Reimbursements	140,069	•	Permanent	Retention monies on specific contracts to rectify works (\$50 000), traineeships, grants and scholarships (\$50 000). Balance smaller fundraising and minor donations.
Profit on Asset Disposal	43,169			No material variance.
Fees and Charges	297,197	•	Timing	Charter flight fees - airport - above budget YTD \$160 000, scrap metal - approx. \$80,000 above budget. Many other areas continue to track above budget.
Interest Earnings	18,490			No material variance.
Other Revenue	(69,266)			No material variance.
1.2 Operating Expense				
Employee Costs	504,325	•	Timing	A number of these vacancies have been backfilled short term via labour hire appointments, and also the seasonal increase with some Infrastructure and Environment teams. Labour hire is captured in materials and contracts. If labour hire costs are added to other employee costs, variance is minimal and expected to be to budget.
Materials and Contracts	67,854			No material variance. Note: includes labour hire costs.
Utilities Charges	62,685			No material variance.
Depreciation (Non-Current Assets)	(325,468)	•	Permanent	Variance due to two areas – roads and IT equipment. Roads will be subject to revaluation at year end, which will have an unknown impact on final year end depreciation. IT equipment has been depreciated at high rates due to short life cycle and frequent updates. A review of the rates used will be undertaken when producing the year end accounts.
Interest Expenses	20,016			No material variance.
Insurance Expenses	16,576			No material variance.
Loss on Asset Disposal	(156)			No material variance.
Other Expenditure	(21,846)			No material variance.
Less Allocated to Infrastructure	183,060	•	Permanent	Internal resources utilised for the end of Stage 1 CPSP, and commencement of Stage 2.
1.3 Contributions for the Development of Assets				
Grants & Subsidies	61,487			
Contributions, Donations & Reimbursements	282,431	•	Permanent	Un-budgeted capital contributions received for future works programs (\$163 000). Some different allocation of grants received compared to budgeted account.
1.4 Funding Balance Adjustment				
Add Back Depreciation	325,468		Permanent	As per comments for depreciation above.
Adjust (Profit)/Loss on Asset Disposal	(43,013)			No material variance.
1.5 Capital Revenues				
Proceeds from Disposal of Assets	(129,303)	▼	Timing	Direct result of light and heavy fleet replacement program not to schedule.
1.6 Acquisition of Fixed Assets				
Land and Buildings	(31,360)			No material variance.
Plant and Equipment	291.112	•	Timing	Light fleet procurement behind program. Likely to be carried forward to 2018/19 purchase program. Heavy fleet -
Euroiture and Equipment	(19,400)		5	purchase orders issued, waiting delivery.
Furniture and Equipment	(16,499)			INO material variance.
Infrastructure Assets - Roads	515,502	▼	Timing	Finitially limited or actual expense for 10 budget of miduleton rat (\$227 000), and rowood rat (\$120 000). Balance is spread across 32 other jobs, none with a variance over \$35 000, and all jobs commenced with some costs allocated to them.
Infrastructure Assets - Other	331,822	▼	Timing	Primarily timing on CPSP stage 1 completion, and commencement of Stage 2 - work done, waiting invoices. Portion will be carried forward to 2018/19 budget.
1.7 Financing/Borrowing				
Debt Redemption	(2,785)			No material variance.
Loan Drawn Down	0			No material variance.
1.8 Restricted Funding Movements				
Opening Funding Surplus(Deficit)	12,119			No material variance.
Transfer to Reserves	0			No material variance.
Transfer from Reserves	0			No material variance.

City of Albany NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY For the Period Ended 30th April 2018

Note 2: NET CURRENT FUNDING POSITION

		Positive=Surplus (Negative=Deficit)				
		2017-18				
				Same Period		
	Note	This Period	Last Period	Last Year		
		\$	\$	\$		
Current Assets						
Cash Unrestricted		12,808,466	16,794,648	16,948,952		
Cash Restricted		26,351,514	26,305,671	18,976,533		
Receivable - Rates and Rubbish	4	1,923,163	2,539,490	1,504,139		
Receivables - Other		1,021,266	858,595	4,018,259		
Investments - LG Unit Trust Shares		205,605	205,605	205,605		
Accrued Income		326,855	332,211	378,546		
Prepaid Expenses		23,004	23,004	51,479		
Investment Land		158,000	158,000	229,609		
Community Group Loan		12,120	12,120	12,120		
Stock on Hand		814,299	746,707	643,724		
		43,644,291	47,976,051	42,968,967		
Less: Current Liabilities						
Payables		(2,379,923)	(2,035,987)	(1,908,206)		
Accrued Expenses		(4,138)	(6,057)	0		
Income in advance		(1,820)	(3,597)	(5,575)		
Provisions		(4,590,489)	(4,494,568)	(4,128,356)		
Retentions		(43,584)	(43,532)	(237,313)		
		(7,019,954)	(6,583,741)	(6,279,450)		
Add Back: Loans		881,997	1,007,590	924,636		
Less: Cash Restricted		(25,992,610)	(25,992,610)	(18,213,089)		
Unutilised - Loan		(841,758)	(841,758)	0		
Investment land		(158,000)	(158,000)	(229,609)		
Investments - LG Unit Trust Shares		(205,605)	(205,605)	(205,605)		
Net Current Funding Position		10,308,362	15,201,927	18,965,850		







While the graph shows a drop in liquidity, it should be noted that this does not include restricted monies. This includes grant funds paid in advance with no or little expenses incurred against that grant.

City of Albany NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY For the Period Ended 30th April 2018

Note 3: CASH INVESTMENTS

								ſ	Amo	unt Invested (Da	ys)	Compara	ative rate	В	udget v Actua	al
Denerit				T	Invested	A-mount	European					Dries Menth	Interest Rate	Year to	Veerte	
Ref	Institution	Rating	Deposit Date	(Davs)	rates	Invested	Interest		0 - 3 Months	3 - 6 Months	6 - 12 Months	Interest Rate	Report	Budget	Date Actual	Var.\$
General Municipal																
10508717	NAB	AA	13/02/2018	90	2.44%	2,500,000	15,041		2,500,000			2.47%	2.44%			
4693820	Bankwest	AA	13/03/2018	92	2.45%	3,000,000	18,526		3,000,000			2.45%	2.45%			
33822504	CBA	AA	12/04/2018	123	2.59%	2,000,000	17,456		1	2,000,000		2.28%	2.59%			
4706880	Bankwest	AA	23/04/2018	91	2.65%	2,000,000	13,214		2,000,000			2.50%	2.65%			
					Subtotal	9,500,000	64,237	[7,500,000	2,000,000	0			365,836	313,190	(52,646)
Restricted					_											
29924418	Westpac	AA	16/10/2017	212	2.59%	3,000,000	45,130		I		3,000,000		2.59%			
415677	Westpac	AA	9/11/2017	181	2.60%	3,000,000	38,679		1	3,000,000			2.60%			
030399	AMP	AA	24/01/2018	273	2.65%	2,000,000	39,641		1		2,000,000	2.53%	2.65%			
33822504	CBA	AA	28/02/2018	120	2.41%	2,000,000	15,847		1	2,000,000		2.31%	2.41%			
4693068	Bankwest	AA	9/03/2018	122	2.50%	3,000,000	25,068		1	3,000,000		2.45%	2.45%			
10517791	NAB	AA	15/03/2018	120	2.54%	3,000,000	25,052		l I	3,000,000		2.45%	2.54%			
33822504	CBA	AA	27/03/2018	120	2.53%	3,000,000	24,953		1	3,000,000		2.26%	2.53%			
4699871	Bankwest	AA	3/04/2018	122	2.55%	2,000,000	17,047		l I	2,000,000		2.50%	2.55%			
2593409	Bendigo	BBB	20/04/2018	180	2.65%	2,500,000	32,671		ļ		2,500,000	2.45%	2.65%			
					Subtotal	23,500,000	264,089	-	0	16,000,000	7,500,000			400,000	460,714	60,714
			Tot	tal Fund	s Invested	33,000,000	328,325	ŀ	7,500,000	18,000,000	7,500,000			765,836	773,904	8,068

Comments/Notes - Cash Investments

This report was prepared prior to adoption of the revised investment policy

City of Albany Monthly Investment Report For the Period Ended 30th April 2018

Note 3A: GRAPHICAL REPRESENTATION - CASH INVESTMENTS







City of Albany NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY For the Period Ended 30th April 2018

Note 4: RECEIVABLES **Previous** Total **Receivables - General Receivables - Rates and Refuse** Current Current 30 Days 60 Days 90 Days \$ \$ \$ \$ 2017-18 2016-17 \$ 335,106 35,635 \$ \$ 90,965 152,787 **Opening Arrears Previous Years** 809,310 809,310 Total Outstanding 614,494 Rates Levied this year 35,297,674 35,297,674 6,040,036 6,040,036 Amounts shown above include GST (where applicable) Refuse Levied ESL Levied 3,069,978 3,069,978 Other Charges Levied 461,039 461,039 Less Collections to date (43, 260, 824)(494.049)(43,754,874)Equals Current Outstanding 1,607,902 315,261 1,923,163 **Total Rates & Charges Collectable** 1,923,163 % Collected 95.79%



Comments/Notes - Receivables Rates and Refuse



Comments/Notes - Receivables General

Total showing in 90 days includes grant invoices of \$41 250 and \$20 350 since paid.

City of Albany NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY For the Period Ended 30th April 2018

Note 5: CAPITAL ACQUISITIONS

Contributions Information										
					Summary Acquisitions	Original	Current			
Grants	Reserves	Borrowing	Restricted	Total		Budget	Budget	YTD Budget	Actual	Variance
\$	\$	\$		\$		\$	\$	\$	\$	\$
					Property, Plant & Equipment					
0	0	0	0	0	Land	0	0	0	0	0
1,327,500	770,000	1,000,000	0	3,097,500	Buildings	7,969,596	9,590,697	5,487,294	5,518,654	31,360 🔺
50,000	0	0	0	50,000	Plant & Equipment	3,468,782	3,622,082	1,819,776	1,528,664	(291,112) 🔻
0	0	0	0	0	Furniture & Equipment	636,900	711,900	453,848	472,347	18,499 🔺
					Infrastructure					
1,500,000	200,000	0	0	1,700,000	Roadworks	5,676,799	5,993,349	3,151,337	2,635,835	(515,502)
0	0	0	0	0	Drainage	781,000	781,000	455,743	437,228	(18,515) 🔻
825,000	0	0	0	825,000	Bridges	824,734	824,734	0	0	0
20,000	0	0	0	20,000	Footpath & Cycleways	1,065,482	1,058,482	292,299	239,761	(52,538) 🔻
605,700	483,300	0	0	1,089,000	Parks, Gardens & Reserves	2,414,314	2,705,131	848,893	787,982	(60,911) 🔻
13,035,092	467,820	500,000	0	14,002,912	Public Facilities	1,362,092	4,889,843	2,649,843	2,414,062	(235,781) 🔻
0	0	0	0	0	Airport	50,000	50,000	50,000	127,720	77,720
0	273,286	0	0	273,286	Waste	273,286	257,877	150,818	131,016	(19,802) 🔻
0	0	0	0	0	Other Infrastructure	368,241	2,279,631	230,000	208,004	(21,996) 🔻
	_							,		
17,363,292	2,194,406	1,500,000	0	21,057,698	Totals	24,891,226	32,764,726	15,589,851	14,501,275	(1,088,576)

Comments - Capital Acquisitions



TRUST CHEQUES AND ELECTRONICS FUNDS TRANSFER PAYMENTS

TRUST PAY	MENTS			
	Date		Description	Amount
EFT125126	26/04/2018	WARRENUP RIDGE JOINT VENTURE	Return - Vegetation Bond	\$ 6,966.00
			Total	\$ 6,966.00
MASTERCA	RD TRANSACTI	ONS - APRIL 2018		
	Date	Payee	Description	Amount
	29/03/2018	Kioware	Material Supply - Kiosk Software	\$ 766.14
	30/03/2018	Dog Rock motel	Accommodation - Albany Art Prize Judge	\$ 612.00
	29/03/2018	Regional Express	Flights - R Flick - ArcGIS Course	\$ 497.10
	29/03/2018	DigiDirect Australia	Material Supply - Forestry Laser Range Finder	\$ 478.00
	6/04/2018	Sullivan's Hotel	Accommodation - R Flick - ArcGIS Course	\$ 444.58
	12/04/2018	Regional Express	Flights - M Thomson And M Richardson - Minister For Water Meeting	\$ 904.26
	17/04/2018	Regional Express	Flights - C Beck - Training Course	\$ 205.02
	29/03/2018	Ergonomic Office	Ergonomic Stool - Communications Department	\$ 227.00
	29/03/2018	Regional Express	Flights - B Scott And H Loncar - HR Training	\$ 854.40
	29/03/2018	Regional Express	Flights - M Cole And M Hammond	\$ 989.30
	13/04/2018	Regional Express	Flights - Olde, Van Nierop, McGill - Moore Stephens Training	\$ 1,551.40
	13/04/2018	Regional Express	Flights - M Cole - LG Finance Meeting	\$ 449.68
	13/04/2018	Regional Express	Flights - S Grimmer - LG Finance Meeting	\$ 427.20
	17/04/2018	Headspace	Subscription - Mindfulness App	\$ 2,470.67
	20/04/2018	Host Direct	Material Supply - Library Refit	\$ 820.20
	20/04/2018	Host Direct	Material Supply - Civic Kitchen Upgrade	\$ 1,906.06
	29/03/2018	Regional Express	Flights - Various CEO Meetings	\$ 472.16
	29/03/2018	Hybla Tavern	Meals - CEO, Mayor And ATCO Executive Meeting	\$ 413.30
	11/04/2018	The Manna of Hahndorf	Accommodation - R Batten Conference	\$ 219.00
	11/04/2018	Four Points Sheraton	Accommodation - CEO Various Meetings	\$ 292.32
	16/04/2018	Regional Express	Flights - NAC Advisory Committee Meeting	\$ 517.14
	19/04/2018	Facebook	Advertising - Various Departments	\$ 307.86
	29/03/2018	Regional Express	Flights - Mayor - RCAWA Meeting	\$ 472.16
	9/04/2018	Mantra Group	Accommodation - Mayor - Hackathon and RCAWA Meetings	\$ 594.47
	11/04/2018	Humantix Limited	Ticket Purchases - Councillors - Ronald McDonald Fundraiser	\$ 1,100.00
	12/04/2018	Regional Express	Flights - Mayor, CEO And Matt Hammond - NAC Meeting	\$ 1,416.50
	25/04/2018	Qantas Airways	Flights - Mayor - RCAWA Meeting	\$ 848.30
	25/04/2018	Qantas Airways	Flights - CEO - RCAWA Meeting	\$ 848.30
	24/04/2018	VendHQ	Software Supply - Advanced 6.0 Library	\$ 1,665.50
	24/04/2018	VendHQ	Software - Onboarding Package Library	\$ 588.00
			SUNDRY < \$ 200.00	\$ 1,589.12
			Total	\$ 24,947.14
PAYROLL	16/04/2018 - 1	5/05/2018		_
	Date		Description	Amount
	26/04/2018		COA Salaries	\$ 643,857.77
	10/05/2018		COA Salaries	\$ 637,256.11
			Total	\$ 1,281,113.88

Chq	Date	Name	Description	Amount
31978	19/04/2018	J MEAD	Crossover Subsidy	\$ 211.55
31979	19/04/2018	TREE TOP WALK MOTEL	Accommodation - DPAW Fire Spotter	\$ 375.00
31980	19/04/2018	DEPARTMENT OF TRANSPORT	Vehicle Registration	\$ 736.20
31981	19/04/2018	K2 AUDIOVISUAL PTY LTD	Supply And Installation Of Projectors - Tourism And Information Hub	\$ 34,199.00
31982	19/04/2018	PETTY CASH	Petty Cash Reimbursement	\$ 3,177.85
31983	19/04/2018	PIVOTEL SATELLITE PTY LIMITED	Satellite Phone Charges	\$ 250.00
31984	19/04/2018	TELSTRA CORPORATION LIMITED	Telephone Charges	\$ 23,836.21
31985	19/04/2018	WATER CORPORATION	Water Consumption States State	\$ 3,450.47
31986	19/04/2018	WESTNET PTY LTD	DNS Hosting	\$ 25.00
31987	19/04/2018	THE WEST AUSTRALIAN	Newspaper Deliveries	\$ 394.78
31988	26/04/2018	DEPARTMENT OF TRANSPORT	Vehicle Registration	\$ 317.15
31989	26/04/2018	WATER CORPORATION	Water Consumption States State	\$ 6,685.37
31990	03/05/2018	J STOREY & A SIMMONS	Crossover Subsidy	\$ 126.15
31991	03/05/2018	K SNAPE & N DENNIS	Crossover Subsidy	\$ 132.04
31992	03/05/2018	C KOHLEN	Crossover Subsidy	\$ 211.55
31993	03/05/2018	B & N BOUWER	Crossover Subsidy	\$ 226.28
31994	03/05/2018	B & C POISAT	Crossover Subsidy	\$ 167.38
31995	03/05/2018	J & K STONEY	Crossover Subsidy	\$ 176.22
31996	03/05/2018	C GOSH & S PITMAN	Crossover Subsidy	\$ 176.22
31997	03/05/2018	J WHITTLE	Crossover Subsidy	\$ 117.24
31998	03/05/2018	DAVID WETTENHALL	Bushfire Property Claim	\$ 1,030.00
31999	03/05/2018	TELSTRA CORPORATION LIMITED	Telephone Charges	\$ 11,326.97
32000	03/05/2018	WATER CORPORATION	Water Consumption State	\$ 571.06
32001	03/05/2018	THE WEST AUSTRALIAN - SUBSCRIBER SERVICES	Newspaper Deliveries	\$ 357.59
32002	10/05/2018	BRAD & CORRINA PITT	Crossover Subsidy	\$ 152.66
32003	10/05/2018	CRAIG & MEENA GOATLEY	Crossover Subsidy	\$ 226.28
32004	10/05/2018	CLIVE & LINDA THOMAS	Crossover Subsidy	\$ 185.05
32005	10/05/2018	NIGEL & VICKY SPITZ	Crossover Subsidy	\$ 176.22
32009	10/05/2018	DEPARTMENT OF TRANSPORT	Vehicle Registration	\$ 470.70
32010	10/05/2018	PIVOTEL SATELLITE PTY LIMITED	Satellite Phone Charges	\$ 498.00
32011	10/05/2018	WATER CORPORATION	Water Consumption	\$ 25,025.82

Total

\$ 115,012.01

EFT	Date	Name
EFT124794	19/04/2018	ABA SECURITY
EFT124795	19/04/2018	AD CONTRACTORS PTY LTD
EFT124796	19/04/2018	ADVERTISER PRINT
EFT124797	19/04/2018	AUSTRALIAN AIRPORTS ASSOCIATION (AAA)
EFT124798	19/04/2018	ALBANY V-BELT AND RUBBER
EFT124799	19/04/2018	ALBANY SWEEP CLEAN
EFT124800	19/04/2018	ALBANY AGRICULTURAL SOCIETY INCORPORATED
EFT124801	19/04/2018	ALBANY COMMUNITY RADIO INC.
EFT124802	19/04/2018	ALBANY REFRIGERATION
EFT124803	19/04/2018	ALBANY LANDSCAPE SUPPLIES
EFT124804	19/04/2018	ALBANY OFFICE PRODUCTS DEPOT
EFT124805	19/04/2018	ALBANY WHALE TOURS
EFT124806	19/04/2018	ALBANY QUALITY LAWNMOWING
EFT124807	19/04/2018	ALBANY IRRIGATION & DRILLING
EFT124808	19/04/2018	ALBANY STAINLESS STEEL
EFT124809	19/04/2018	ALBANY DOMESTIC SERVICES
EFT124810	19/04/2018	ALBANY FORD & CHRYSLER JEEP
EFT124811	19/04/2018	AUSTRALIAN LIBRARY AND INFORMATION ASSOCIATION LTD
EFT124812	19/04/2018	PJ & HG ANDERSON
EFT124813	19/04/2018	APPRENTICE & TRAINEESHIP COMPANY
EFT124814	19/04/2018	ARTIFICIAL LAWN SUPPLIES
EFT124815	19/04/2018	ATC WORK SMART
EFT124816	19/04/2018	BADGEMATE
EFT124817	19/04/2018	CB BALAWENDER
EFT124818	19/04/2018	BAREFOOT CLOTHING MANUFACTURERS
EFT124819	19/04/2018	BARRETTS MINI EARTHMOVING & CHIPPING
EFT124820	19/04/2018	BENNETTS BATTERIES
EFT124821	19/04/2018	ADVANCED TRAFFIC MANAGEMENT WA PTY LTD
EFT124822	19/04/2018	BERTOLA HIRE ALBANY PTY LTD
EFT124823	19/04/2018	BEST OFFICE SYSTEMS
EFT124824	19/04/2018	J. BLACKWOOD & SON PTY LTD
EFT124825	19/04/2018	BLOOMIN FLOWERS SPENCER PARK
EFT124826	19/04/2018	ALBANY BOBCAT SERVICES
EFT124827	19/04/2018	BOC GASES AUSTRALIA LIMITED
EFT124828	19/04/2018	BRANDNET PTY LTD
EFT124829	19/04/2018	COLIN BRINHAM FENCING & RETAINING WALLS
EFT124830	19/04/2018	BUNNINGS GROUP LIMITED
EFT124831	19/04/2018	BUNNS VINEYARD
EFT124832	19/04/2018	C&C MACHINERY CENTRE
EFT124833	19/04/2018	CALTEX AUSTRALIA PETROLEUM PTY LTD
EFT124834	19/04/2018	CALTEX AUSTRALIA PETROLEUM PTY LTD
EFT124835	19/04/2018	CAMTRANS ALBANY PTY LTD
EFT124836	19/04/2018	JOHN CARBERRY
EFT124837	19/04/2018	J & S CASTLEHOW ELECTRICAL SERVICES
EFT124838	19/04/2018	CALEB GLENN CASTLEHOW
EFT124839	19/04/2018	A CATTERALL
EFT124840	19/04/2018	CENTIGRADE SERVICES PTY LTD
EFT124841	19/04/2018	CENTENNIAL STADIUM INC
EFT124842	19/04/2018	GN CHARLESWORTH
EFT124843	19/04/2018	KEVIN CHIN
EFT124844	19/04/2018	CLEANAWAY PTY LIMITED

Description	Amount
Daycare Security System Installation And Services	\$ 3,831.31
Equipment Hire - C16012	\$ 11,569.55
Business Cards - Various Units	\$ 65.00
Staff Training - ARO Refresher Course	\$ 440.00
Material Supply - Pump	\$ 691.90
Sweeping Services - C15014	\$ 4,407.00
Pavilion Hire - Library Relocation	\$ 165.00
Mount Clarence Mast Rental - 2018/2019	\$ 5,533.50
Air-Conditioning Maintenance - C15021	\$ 1,181.34
Material Supply - Quartz	\$ 2,590.00
Stationery Supplies - Q17039	\$ 982.97
Merchandise Order - Visitor Centre	\$ 132.00
awn Mowing Services - Lotteries House	\$ 110.00
Reticulation Supplies - Various Locations	\$ 1,196.10
Repairs And Maintenance - Sweeper Tank	\$ 88.00
Cleaning Services - Animal Waste	\$ 175.00
Material Supply - Tail Light	\$ 205.98
Membership Renewal - 2018/2019	\$ 1,194.00
Supply And Install Farm Gate - New Gravel Pit	\$ 1,760.00
Casual Staff/Apprentice Fees	\$ 327.25
Repairs And Maintenance - Hockey Pitch	\$ 3,450.00
Casual Staff/Apprentice Fees	\$ 80,591.27
Jniform Supplies - Name Badges	\$ 83.05
Refund	\$ 831.44
Staff Uniforms - ALAC	\$ 607.00
/egetation Maintenance - C17022	\$ 240.00
Material Supply - Oil	\$ 220.88
Traffic Control Services - C17014	\$ 18,182.78
Equipment Hire - North Road Building	\$ 286.00
Material Supply - Labels	\$ 21.00
Concrete Supplies	\$ 975.74
Floral Arrangement - Arrival Of Staff Baby	\$ 60.00
Equipment Hire - C16012	\$ 8,438.38
Container Service Rental	\$ 132.60
Merchandise Order - Forts Store	\$ 7,181.41
Repairs And Maintenance - McKail Park	\$ 2,288.00
Material Supply - Hammer Drill And Others	\$ 764.36
Refreshments - Civic Functions	\$ 757.20
nsurance Repairs And Maintenance - RM.CLM.437	\$ 30,964.90
Fuel Purchases - Fleet/Contract Vehicles	\$ 6,524.10
Fuel Purchases - Bulk Diesel	\$ 32,525.30
Paving Supplies - CPSP	\$ 5,144.63
/ideography - Noongar Song Project	\$ 1,000.00
Electrical Services - C17032 And C17013	\$ 97,779.98
School Bike Clinics - TravelSmart Initiative	\$ 1,000.00
Staff Reimbursement	\$ 69.80
ALAC Maintenance Services - Q16009	\$ 1,319.95
Electricity Charges - Centennial Stadium	\$ 839.42
Refund	\$ 840.49
Albany Art Prize 2018 - Winner	\$ 25,000.00
Rubbish Removal P14021	\$ 223,257.08

EFT124845	19/04/2018 COLES SUPERMARKETS AUSTRALIA PTY LTD	Groceries - Various
EF1124846	19/04/2018 DE COLES	Refund
EF1124847	19/04/2018 COURIER AUSTRALIA	Freight Charges
EF1124848	19/04/2018 ALBANY SIGNS	Signage - Bin Frames And Various
EF1124849	19/04/2018 CRAMER PLUMBING AND GAS	Plumbing Repairs And Maintenance -
EFT124850	19/04/2018 DOWNER EDI WORKS PTY LTD	Material Supply - Hot Mix
EFT124851	19/04/2018 HOLCIM (AUSTRALIA) PTY LTD	Concrete Supplies - C15009/C16010
EFT124852	19/04/2018 ROGER HAYWARD CUNNINGTON	Merchandise Order - Forts Store
EFT124853	19/04/2018 AL CURNOW HYDRAULICS	Plant Repairs And Maintenance - Hos
EFT124854	19/04/2018 METATECH INTERNET PTY LTD	Website Hosting Bundle
EFT124855	19/04/2018 DATA #3 LIMITED	Material Supply - Word Fonts
EFT124856	19/04/2018 GRAEME & YVONNE DAVISON	Merchandise Order - Visitor Centre
EFT124857	19/04/2018 JASON DEAN	Merchandise Order - Visitor Centre
EFT124858	19/04/2018 DE JONGE MECHANICAL PTY LTD	Vehicle Repairs And Maintenance - Q
EFT124859	19/04/2018 MARINE SAFETY DEPARTMENT OF TRANSPORT	Jetty Renewal
EFT124860	19/04/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY	Hygiene Services And Cleaning Produ
EFT124861	19/04/2018 DI'S LUNCH BAR	Catering - Lotterywest Lunch
EFT124862	19/04/2018 VICKY DODDS	Consultation Services - NAC
EFT124863	19/04/2018 RICCI DRAPER	Cleaning Services - Centennial Stadiu
EFT124864	19/04/2018 DYLANS ON THE TERRACE	Catering - Civic Function And Executiv
EFT124865	19/04/2018 EJS ENCOUNTERS	Merchandise Order - Visitor Centre
EFT124866	19/04/2018 ELITE POOL COVERS	Material Supply - Struts
EFT124867	19/04/2018 ELLEKER VOLUNTEER BUSHFIRE BRIGADE	Bush Fire Brigade Materials Reimburs
EFT124868	19/04/2018 ENTS FORESTRY PTY LTD	Management Services - Lake Warbur
EFT124869	19/04/2018 ET CETERA BY KATIE	MC Services - Vancouver Street Festi
EFT124870	19/04/2018 EYERITE SIGNS	Signage - York Street Information Ban
EFT124871	19/04/2018 FARMERS CENTRE PTY LTD	Material Supply - Filters
EFT124872	19/04/2018 J FERRELL	Staff Reimbursement
EFT124873	19/04/2018 FAMILIES AND FRIENDS OF THE FIRST AIF INC	Merchandise Order - Forts Store
EFT124874	19/04/2018 FLIPS ELECTRICS	Electrical Repairs And Maintenance -
EFT124875	19/04/2018 FRIDGE AND WASHER CITY	Library Relocation - Fridge Purchase
EFT124876	19/04/2018 KA GADOMSKI	Refund
EFT124877	19/04/2018 GIBSON INTERNATIONAL LTD	Character Posts And Tribute Wall - Fo
EFT124878	19/04/2018 GLASS SUPPLIERS	Signage - Amity Quays Information Ba
EFT124879	19/04/2018 GLOBAL INTEGRATED SOLUTIONS LIMITED	Ezicom Fees - Airport
EFT124880	19/04/2018 GREAT SOUTHERN PEST & WEED CONTROL	Pest Control Services - Q17027
EFT124881	19/04/2018 GREAT SOUTHERN PERSONNEL INC	Gardening Services - Lotteries House
EFT124882	19/04/2018 GREAT SOUTHERN SUPPLIES	Material Supply - Consumables
EFT124883	19/04/2018 GREAT SOUTHERN TURF	Turf Supplies - C18001
EET124884	19/04/2018 GREENMAN TRADING COMPANY	Vegetation Maintenance - C17022
EFT124885	19/04/2018 GRESLEY ABAS PTY I TD	C13014 Contract Variations
EFT124886	19/04/2018 GSM AUTO ELECTRICAL	Repairs And Maintenance - Airport Ge
EFT124887	19/04/2018 ALBANY POLICE AND CITIZENS YOUTH CLUB	Kidsport Vouchers
EFT124888	19/04/2018 H FELL	Staff Reimbursement
EFT124889	19/04/2018 PT HARRIS	Befund
EFT124800		Professional Services - Employee We
EFT124030	10/04/2018 HOBBS PAINTING AND DECORATING	Painting Services - 017037
EFT124001		Merchandise Order - Forts Store
EFT124803	19/04/2018 HHG LEGAL GROUP	Professional Services - C16011
EFT12/80/		Truck Renairs And Maintenance - Air-
EFT124034		Vegetation Maintenance - C17022
EFT124090		Marketing - Vouth Destar And Site Ma
LI I I Z4090		Marketing - Touth Fuster And Sile Ma

ries - Various	\$	236.45
d	\$	755.00
t Charges	\$	565.56
ge - Bin Frames And Various	\$	9,988.00
ing Repairs And Maintenance - Scout Hall	\$	1,387.99
al Supply - Hot Mix	\$	339.35
ete Supplies - C15009/C16010	\$	15,483.59
andise Order - Forts Store	\$	396.00
Repairs And Maintenance - Hose	\$	505.66
ite Hosting Bundle	\$	2,861.70
al Supply - Word Fonts	\$	235.58
andise Order - Visitor Centre	\$	150.00
andise Order - Visitor Centre	\$	1,500.00
e Repairs And Maintenance - Q17009	\$	372.00
Renewal	\$	80.20
ne Services And Cleaning Products - Q16024	\$	1,971.41
ng - Lotterywest Lunch	\$	330.00
Itation Services - NAC	\$	2,373.82
ing Services - Centennial Stadium	\$	40.00
ng - Civic Function And Executive Meeting	\$	644.50
andise Order - Visitor Centre	\$	1,500.00
al Supply - Struts	\$	104.50
Fire Brigade Materials Reimbursement	\$	76.50
gement Services - Lake Warburton	\$	3,378.74
ervices - Vancouver Street Festival	\$	200.00
ge - York Street Information Banners And Stadium Entry Signage	\$	22,959.20
al Supply - Filters	\$	148.24
Reimbursement	\$	85.00
andise Order - Forts Store	\$	1,980.00
cal Repairs And Maintenance - Pump Motor	\$	1,688.50
y Relocation - Fridge Purchase	\$	950.00
d	\$	5,173.44
cter Posts And Tribute Wall - Fourth Quarter Payment	\$	2,062.50
ge - Amity Quays Information Bay	\$	5,313.00
n Fees - Airport	\$	198.00
Control Services - Q17027	\$	335.00
ning Services - Lotteries House	\$	204.00
al Supply - Consumables	\$	1,306.41
upplies - C18001	\$	297.00
ation Maintenance - C17022	\$	3,630.00
4 Contract Variations	\$	3,444.34
rs And Maintenance - Airport Gensets	\$	165.00
ort Vouchers	\$	2.205.50
Reimbursement	\$	466.92
d	\$	613.58
sional Services - Employee Wellness Program	\$	858.00
ng Services - Q17037	\$	836.00
andise Order - Forts Store	\$	321.05
sional Services - C16011	ŝ	924.00
Repairs And Maintenance - Air-Conditioning	ŝ	3,136,55
ation Maintenance - C17022	\$	2,738,23
ting - Youth Poster And Site Maps	ŝ	400.00
	Ŷ	.00.00

EFT124897	19/04/2018 JOHN KINNEAR AND ASSOCIATES
EFT124898	19/04/2018 KLB SYSTEMS
EFT124899	19/04/2018 LINCOLN AND GOMM WINES
EFT124900	19/04/2018 LOCHNESS LANDSCAPE SERVICES
EFT124901	19/04/2018 LORLAINE DISTRIBUTORS PTY LTD
EFT124902	19/04/2018 M AND B SALES PTY LTD
EFT124903	19/04/2018 SCOTT MAHAR
EFT124904	19/04/2018 ALBANY EVENT HIRE
EFT124905	19/04/2018 AMANDA MARKEY
EFT124906	19/04/2018 KA MANUEL
EFT124907	19/04/2018 MARSHALL MOWERS
EFT124908	19/04/2018 MARWICK BROTHERS MEDIA
EFT124909	19/04/2018 EB MARTAIN
EFT124910	19/04/2018 KA MARSHALL
EFT124911	19/04/2018 MJB INDUSTRIES PTY LTD
EFT124912	19/04/2018 NEVILLES HARDWARE & BUILDING SUPPLIES
EFT124913	19/04/2018 PR AND ER NEWMAN'S QUALITY CONCRETE PRODUCTS
EFT124914	19/04/2018 ALBANY NEWS DELIVERY
EFT124915	19/04/2018 NIKANA CONTRACTING PTY LTD
EFT124916	19/04/2018 NLC PTY LTD
EFT124917	19/04/2018 DENMARK SUPERMARKETS PTY LTD
EFT124918	19/04/2018 NOVUS AUTOGLASS REPAIRS & REPLACEMENTS
EFT124919	19/04/2018 OFFICEWORKS SUPERSTORES PTY LTD
EFT124920	19/04/2018 OPTIMUM MEDIA DECISIONS WA
EFT124921	19/04/2018 ORIGIN ENERGY
EFT124922	19/04/2018 OYSTER HARBOUR STORE
EFT124923	19/04/2018 BRAYDEN JOHN PARKER
EFT124924	19/04/2018 AUSTRALASIAN PERFORMING RIGHT ASSOCIATION LIMITED
EFT124925	19/04/2018 PERTH THEATRE TRUST
EFT124926	19/04/2018 PERTH SAFETY PRODUCTS PTY LTD
EFT124927	19/04/2018 PETER GRAHAM AND COMPANY LTD
EFT124928	19/04/2018 PIXELCASE GROUP PTY LTD
EFT124929	19/04/2018 ALBANY PLUMBING AND GAS
EFT124930	19/04/2018 C PLUG
EFT124931	19/04/2018 ALBANY POLICE AND CITIZENS YOUTH CLUB
EFT124932	19/04/2018 PRE-EMPTIVE STRIKE PTY LTD
EFT124933	19/04/2018 PROGRAMMED FACILITY MANAGEMENT PTY LTD
EFT124934	19/04/2018 GL RAE
EFT124935	19/04/2018 REEVES ON CAMPBELL
EFT124936	19/04/2018 WP REID
EFT124937	19/04/2018 ROAD 'N' FIELD SPANNERS
EFT124938	19/04/2018 A ROGERSON
EFT124939	19/04/2018 SCARVES AUSTRALIA
EFT124940	19/04/2018 SEASHORE ENGINEERING PTY LTD
EFT124941	19/04/2018 SEEK LIMITED
EFT124942	19/04/2018 SETON AUSTRALIA PTY LTD
EFT124943	19/04/2018 SHIRE OF EAST PILBARA
EFT124944	19/04/2018 SKILL HIRE WA PTY LTD
EFT124945	19/04/2018 SKIPPER TRANSPORT PARTS
EFT124946	19/04/2018 SMITHS ALUMINIUM AND 4WD CENTRE
EFT124947	19/04/2018 SOIL SOLUTIONS PTY LTD
EFT124948	19/04/2018 SOUTHERN TOOL AND FASTENER CO

Survey Services - C16016	\$ 8,353.95
IT Equipment - C17024	\$ 467.50
Catering - Library	\$ 292.32
Mowing Services - C16008	\$ 17,801.60
Cleaning Supplies - Bin Liners	\$ 175.15
Material Supply - Frame And Timber	\$ 118.83
Painting Services - Gym Equipment	\$ 815.00
Equipment Hire - Albany Art Prize 2018	\$ 556.50
Workshop And Street Dressing - Vancouver Street Festival	\$ 2,500.00
Refund	\$ 758.68
Material Supply - Chainsaw And PPE	\$ 796.95
Photography - Albany Art Prize 2018	\$ 250.00
Refund	\$ 426.71
Refund	\$ 147.83
Concrete Supplies - C15009	\$ 25,026.05
Material Supply - Lock Joint	\$ 1,050.60
Concrete Supplies - C15009	\$ 251.90
Newspaper Deliveries	\$ 129.90
Skip Bin Hire - Boat harbour	\$ 2,679.60
Novated Leases	\$ 1,351.30
Catering - Easter Fatigue Road Stop 2018	\$ 840.40
Windscreen Replacement - Contract Vehicle	\$ 380.00
Office Supplies - Visitor's Centre	\$ 118.57
Amazing South Coast Advertising	\$ 80,776.30
Gas Usage	\$ 3,215.45
Catering - Depot Staff BBQ	\$ 336.98
Lawn Mowing Services - Daycare	\$ 248.00
Licence Fees - ALAC	\$ 1,153.74
GRIP Leadership Conference 2018	\$ 1,518.58
Signage - Roads	\$ 2,373.80
Material Supply - Steel Droppers	\$ 761.75
Virtual Reality Series - Tourism And Information Hub Q17057	\$ 34,127.50
Plumbing Services - C17020	\$ 1,687.40
Refund	\$ 7.09
Funding Agreement - Strike	\$ 20,900.00
Professional Services - Term Two Planner ALAC	\$ 907.50
Tile Replacement - C17021	\$ 207,687.63
Refund	\$ 18.20
Catering - Depot Staff BBQ	\$ 361.00
Brick Paving Services - C16026	\$ 1,211.00
Plant Repairs And Maintenance - Various	\$ 4,975.99
Staff Reimbursement	\$ 43.00
Merchandise Order - Forts Store	\$ 512.50
Engineering Services - Emu Point Boat Pens	\$ 1,100.00
Advertising - Vacant Position	\$ 302.50
Material Supply - Anti Fatigue Mats	\$ 1,014.75
Design Compliance Certificate - CPSP	\$ 300.00
Casual Staff/Apprentice Fees	\$ 8,128.86
Material Supply - Plugs And Rubber	\$ 83.30
Fabrication Services - Pump Shed	\$ 263.00
Material Supply - Pine	\$ 303.20
Tool And Hardware Supplies - Chainsaw And Various	\$ 3,129.37

EFT124949	19/04/2018 SOUTHERN DISTRICTS JUNIOR FOOTBALL ASSOCIATION	Kidsport Vouchers	\$ 2,050.00
EFT124950	19/04/2018 SOUTHCOAST SECURITY SERVICE	Security Services - C15016	\$ 18,713.38
EFT124951	19/04/2018 SOUTH COAST ENVIRONMENTAL	Tree Watering - Q17012	\$ 3,960.00
EFT124952	19/04/2018 SPM ASSETS PTY LTD	Asset Management Software	\$ 5,771.70
EFT124953	19/04/2018 STIRLING PRINT	Printing Services - Youthfest 2018	\$ 94.00
EFT124954	19/04/2018 ST JOHN AMBULANCE WESTERN AUSTRALIA LTD	Staff Training -First Aid	\$ 477.50
EFT124955	19/04/2018 ALBANY LOCK SERVICE	Key Upgrades - C14003	\$ 3,065.20
EFT124956	19/04/2018 SYNERGY	Electricity Charges	\$ 3,681.30
EFT124957	19/04/2018 T & C SUPPLIES	Hardware And Tool Supplies - Various	\$ 700.56
EFT124958	19/04/2018 TALIS CONSULTANTS PTY LTD	Consultancy Services - Landfill Site	\$ 11,094.62
EFT124959	19/04/2018 THINKWATER ALBANY	Irrigation Supplies - Various	\$ 4,325.60
EFT124960	19/04/2018 THURLBY HERB FARM	Merchandise Order - Forts Store	\$ 1,148.65
EFT124961	19/04/2018 TOTAL GREEN RECYCLING	E-Waste Recycling - Q17046	\$ 1,210.00
EFT124962	19/04/2018 CAROLYN FRANCIS TRAPNELL	Merchandise Order - Forts Store	\$ 1,775.00
EFT124963	19/04/2018 TRUCKLINE	Material Supply - Filters	\$ 282.30
EFT124964	19/04/2018 TRUCK CENTRE WA PTY LTD	Material Supply - Step	\$ 196.30
EFT124965	19/04/2018 MOORE STEPHENS PTY LTD	Staff Training - Finance	\$ 5,940.00
EFT124966	19/04/2018 UNITED BOOK DISTRIBUTORS	Merchandise Order - Forts Store	\$ 1.601.60
EFT124967	19/04/2018 UNIFORM FASHIONS	Staff Uniforms - Customer Service	\$ 168.40
EFT124968	19/04/2018 ALBANY VETERINARY HOSPITAL PTY LTD	Veterinary Services - Rangers	\$ 130.00
EFT124969	19/04/2018 VISIT MERCHANDISE PTY LTD	Merchandise Order - Visitor Centre	\$ 233.34
EFT124970	19/04/2018 SHEYANN WALKER	Professional Services - Queens Baton Relav	\$ 300.00
EFT124971	19/04/2018 ALBANY & GREAT SOUTHERN WEEKENDER	Advertising - Vacant Position	\$ 422.73
EFT124972	19/04/2018 DENNIS WELLINGTON	Meal Reimbursement	\$ 91.19
EFT124973	19/04/2018 ARH (BBW) PTY LTD	Gas Bottle Refills - Cape Riche	\$ 160.00
EFT124974	19/04/2018 WESTERN AUSTRALIAN LOCAL GOVERNMENT ASSOCIATION	Training - Effective Letter And Report Writing	\$ 5.027.00
EFT124975	19/04/2018 LANDMARK LIMITED	Material Supply - Fundicides	\$ 4.218.50
EFT124976	19/04/2018 WESTERBERG MARINE	Fabrication Services - Shelf	\$ 168.00
EFT124977	19/04/2018 WESTSHRED DOCUMENT DISPOSAL	Document Disposal	\$ 313.50
EFT124978	19/04/2018 TOURISM WESTERN AUSTRALIA	Attendance - ATR 2018 WA Industry Dinner	\$ 125.00
EFT124979	19/04/2018 ST WINFIELD	Refund	\$ 787.50
EFT124980	19/04/2018 WORKPLACE TRAINING ADVISORY AUSTRALIA	Women & Leadership Australia Executive Ready Program	\$ 3,294.50
EFT124981	19/04/2018 WESFARMERS LTD	Staff Uniforms - Planning	\$ 52.70
EFT124982	19/04/2018 WREN OIL	Waste Disposal	\$ 33.00
EFT124983	19/04/2018 ZENITH LAUNDRY	Laundry Services/Hire	\$ 264.60
EFT124984	26/04/2018 ABBOTTS LIQUID SALVAGE PTY LTD	Waste Services - Public Amenities	\$ 4.053.85
EFT124985	26/04/2018 A.B. ROOFING	Professional Services - Stirling Terrace Painting Preparations	\$ 1,991.00
EFT124986	26/04/2018 ABSOLUTE PROMOTIONS PTY LTD	Staff Uniforms - Visitor Centre	\$ 11,411.40
EFT124987	26/04/2018 ACORN TREES AND STUMPS	Mulching Services - Marbelup North	\$ 6,171.00
EFT124988	26/04/2018 AD CONTRACTORS PTY LTD	Equipment Hire - C16012	\$ 2,917.75
EFT124989	26/04/2018 AKUBRA HATS PTY LTD	Merchandise Order - Forts Store	\$ 980.10
EFT124990	26/04/2018 ALBANY V-BELT AND RUBBER	Material Supplies - Various	\$ 1,014.78
EFT124991	26/04/2018 ALBANY RETRAVISION	Material Supply - Fridge	\$ 348.00
EFT124992	26/04/2018 ALBANY AGRICULTURAL SOCIETY INCORPORATED	Pavilion Hire - Ranger Relocation	\$ 2,300.00
EFT124993	26/04/2018 TRICOAST CIVIL	Progress Certificate 3 - C17025	\$ 260,136.90
EFT124994	26/04/2018 ALBANY SKIPS AND WASTE SERVICES PTY LTD	Skip Bin Hire - March 2018	\$ 725.00
EFT124995	26/04/2018 ALBANY OFFICE PRODUCTS DEPOT	Stationery Supplies - Q17039	\$ 296.50
EFT124996	26/04/2018 ALBANY PLASTERBOARD COMPANY	Equipment Hire - Tele Handler	\$ 1,320.00
EFT124997	26/04/2018 ALBANY LASERSCAPE	School Holiday Program - ALAC	\$ 990.00
EFT124998	26/04/2018 ALBANY WALLCUTTING SERVICES	Drilling Services - Netball Pole At Lakeside Park	\$ 385.00
EFT124999	26/04/2018 ALBANY DOMESTIC SERVICES	Cleaning Services - Animal Waste	\$ 175.00
EFT125000	26/04/2018 ALISON PARADE	Entertainment - Youthfest 2018	\$ 200.00

EFT125001	26/04/2018 PAPERBARK MERCHANTS
EFT125002	26/04/2018 ATC WORK SMART
EFT125003	26/04/2018 AURORA ENVIRONMENTAL ALBANY
EFT125004	26/04/2018 BENNETTS BATTERIES
EFT125005	26/04/2018 ADVANCED TRAFFIC MANAGEMENT WA PTY LTD
EFT125006	26/04/2018 BISSELTOE PRESS
EFT125007	26/04/2018 BLOOMIN FLOWERS SPENCER PARK
EFT125008	26/04/2018 BMT WESTERN AUSTRALIAN PTY LTD
EFT125009	26/04/2018 ALBANY BOBCAT SERVICES
EFT125010	26/04/2018 BOC GASES AUSTRALIA LIMITED
EFT125011	26/04/2018 AIR BP
EFT125012	26/04/2018 BROCKS
EFT125013	26/04/2018 BUSBY INVESTMENTS PTY LTD
EFT125014	26/04/2018 C&C MACHINERY CENTRE
EFT125015	26/04/2018 CALTEX AUSTRALIA PETROLEUM PTY LTD
EFT125016	26/04/2018 CAMLYN SPRINGS
EFT125017	26/04/2018 J & S CASTLEHOW ELECTRICAL SERVICES
EFT125018	26/04/2018 COLES SUPERMARKETS AUSTRALIA PTY LTD
EFT125019	26/04/2018 ALBANY SIGNS
EFT125020	26/04/2018 LESTER COYNE
EFT125021	26/04/2018 HOLCIM (AUSTRALIA) PTY LTD
EFT125022	26/04/2018 AL CURNOW HYDRAULICS
EFT125023	26/04/2018 DE LAGE LANDEN PTY LIMITED
EFT125024	26/04/2018 DENMARK TOURISM INCORPORATED
EFT125025	26/04/2018 LANDGATE
EFT125026	26/04/2018 DEPARTMENT OF TRANSPORT
EFT125027	26/04/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY
EFT125028	26/04/2018 SANDRA DIXON
EFT125029	26/04/2018 EMMA DOUGHTY
EFT125030	26/04/2018 EARLY BIRD LANDSCAPING
EFT125031	26/04/2018 ELANDRIAL GAMES
EFT125032	26/04/2018 ALBANY ENGINEERING COMPANY
EFT125033	26/04/2018 ENVIRO PIPES PTY LTD
EFT125034	26/04/2018 E-STRALIAN PTY LTD
EFT125035	26/04/2018 EVERTRANS
EFT125036	
EET125037	26/04/2018 EYERITE SIGNS
LT 1120007	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY
EFT125038	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB
EFT125038 EFT125039	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM
EFT125038 EFT125039 EFT125040	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD
EFT125038 EFT125039 EFT125040 EFT125041	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE
EFT125038 EFT125039 EFT125040 EFT125041 EFT125042	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD
EFT125038 EFT125039 EFT125040 EFT125041 EFT125042 EFT125043	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 SOUTH REGIONAL TAFE
EFT125038 EFT125039 EFT125040 EFT125041 EFT125042 EFT125043 EFT125044	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 SOUTH REGIONAL TAFE 26/04/2018 GREAT SOUTHERN SUPPLIES
EFT125038 EFT125039 EFT125040 EFT125041 EFT125042 EFT125043 EFT125044 EFT125044	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 SOUTH REGIONAL TAFE 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 APPLIED INDUSTRIAL TECHNOLOGIES
EFT125038 EFT125039 EFT125039 EFT125040 EFT125041 EFT125042 EFT125043 EFT125044 EFT125045 EFT125046	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 SOUTH REGIONAL TAFE 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 APPLIED INDUSTRIAL TECHNOLOGIES 26/04/2018 GREAT SOUTHERN TURF
EFT125038 EFT125039 EFT125040 EFT125040 EFT125041 EFT125042 EFT125043 EFT125044 EFT125045 EFT125046 EFT125047	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 GREAT SOUTHERN TURF 26/04/2018 GREAT SOUTHERN TURF
EFT125038 EFT125039 EFT125040 EFT125041 EFT125042 EFT125043 EFT125044 EFT125044 EFT125045 EFT125046 EFT125047 EFT125048	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 SOUTH REGIONAL TAFE 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 GREAT SOUTHERN TURF 26/04/2018 GWN GREAT SOUTHERN 26/04/2018 SMITH CONSTRUCTIONS WA
EFT125038 EFT125039 EFT125040 EFT125041 EFT125042 EFT125043 EFT125044 EFT125044 EFT125045 EFT125046 EFT125047 EFT125048 EFT125049	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 FORM 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GREAT SOUTH REN SUPPLIES 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 GREAT SOUTHERN TURF 26/04/2018 GREAT SOUTHERN TURF 26/04/2018 SMITH CONSTRUCTIONS WA 26/04/2018 RAY HAMMOND
EFT125038 EFT125039 EFT125040 EFT125040 EFT125042 EFT125043 EFT125043 EFT125044 EFT125045 EFT125046 EFT125047 EFT125048 EFT125049 EFT125050	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 ALISON GOODE 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 APPLIED INDUSTRIAL TECHNOLOGIES 26/04/2018 GREAT SOUTHERN TURF 26/04/2018 GWN GREAT SOUTHERN 26/04/2018 SMITH CONSTRUCTIONS WA 26/04/2018 RAY HAMMOND 26/04/2018 RAY HAMMOND
EFT125038 EFT125039 EFT125040 EFT125041 EFT125042 EFT125043 EFT125044 EFT125045 EFT125046 EFT125046 EFT125047 EFT125048 EFT125049 EFT125050 EFT125051	26/04/2018 EYERITE SIGNS 26/04/2018 THE FIXUPPERY 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 ALBANY FOOTBALL AND SPORTING CLUB 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 GOLDEN WEST NETWORK PTY LTD 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GORDON WALMSLEY PTY LTD 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 GREAT SOUTHERN SUPPLIES 26/04/2018 GREAT SOUTHERN TURF 26/04/2018 GREAT SOUTHERN 26/04/2018 SMITH CONSTRUCTIONS WA 26/04/2018 RAY HAMMOND 26/04/2018 HARVEY NORMAN ALBANY 26/04/2018 BILL HOLLINGWORTH

Material Supply - Literature	\$ 168.70
Casual Staff/Apprentice Fees	\$ 25,426.44
Professional Services - C17031	\$ 2,676.03
Material Supply - Grease	\$ 709.28
Traffic Control Services - C17014	\$ 7,556.32
Material Supply - Literature	\$ 46.20
Floral Arrangement - Bereavement	\$ 88.00
Equipment Hire - Emu Point to Middleton Beach	\$ 385.00
Equipment Hire - C16012	\$ 2,758.25
Container Service Rental	\$ 59.98
AV Gas Purchases	\$ 273.39
Material Supply - Grout	\$ 8.01
Car Hire - RCAWA Meeting And Hackathon Event	\$ 157.66
Material Supply - Sensor	\$ 97.30
Fuel Purchases - Bulk Diesel	\$ 15,156.09
Water Container Refills - March 2018	\$ 1,902.00
Electrical Services - C17032 And C17013	\$ 17,129.07
Groceries - NAC	\$ 11.60
Signage - Old CBA Site Banners	\$ 9,988.00
Welcome To Country - Tourism And Information Hub	\$ 300.00
Concrete Supplies - C15009/C16010	\$ 486.52
Plant Repairs And Maintenance - Hose	\$ 112.14
Monthly Rental - IT	\$ 6,319.50
Visitor Servicing Model For The Lower Great Southern	\$ 11,000.00
Land Enquiries/Title Searches	\$ 2,575.51
Vehicle Search Fees - March 2018	\$ 150.75
Hygiene Services And Cleaning Products - Q16024	\$ 1,591.00
Professional Services - EAP	\$ 300.00
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Landscaping Services - Bayonet Road Drainage	\$ 979.00
Entertainment - Youth Week 2018	\$ 200.00
Material Supply - Blades	\$ 1,902.70
Material Supply - Drainage Pipes	\$ 2,977.98
Weekly E-Bike Lease	\$ 182.18
Repairs And Maintenance - Hose Reel	\$ 1,485.00
Signage - Youth Fest 2018	\$ 304.70
Window Cleaning Services - Q16023	\$ 594.53
Cultural Co-Ordination - Youth Strategies	\$ 300.00
Second Instalment - Public Silo Trail	\$ 11,000.00
Advertising - National Anzac Centre	\$ 1,358.50
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Asphalt Services - C15007	\$ 170,828.50
Staff Training - Manual Handling	\$ 97.60
Material Supply - Consumables	\$ 763.65
Material Supply - Bearings	\$ 13.64
Turf Supplies - C18001	\$ 726.00
Advertising - Sports Person Of The Year	\$ 1,103.30
Professional Services - C17023	\$ 13,796.13
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Material Supply - Brackets	\$ 119.90
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Media Subscriptions	\$ 1,372.80

EFT125053	26/04/2018 JACK THE CHIPPER
EFT125054	26/04/2018 JJ'S HIAB SERVICES & JJ'S GREAT SOUTHERN
EFT125055	26/04/2018 KEN STONE MOTOR TRIMMERS
EFT125056	26/04/2018 KLB SYSTEMS
EFT125057	26/04/2018 KMART ALBANY
EFT125058	26/04/2018 LATRO LAWYERS
EFT125059	26/04/2018 ALLY LAWRENCE
EFT125060	26/04/2018 STATE LIBRARY OF WESTERN AUSTRALIA
EFT125061	26/04/2018 M AND B SALES PTY LTD
EFT125062	26/04/2018 SCOTT MAHAR
EFT125063	26/04/2018 ALBANY EVENT HIRE
EFT125064	26/04/2018 SOUTH COAST WOODWORKS GALLERY
EFT125065	26/04/2018 MANDALAY TECHNOLOGIES PTY LTD
EFT125066	26/04/2018 MCLEODS
EFT125067	26/04/2018 MERRIFIELD REAL ESTATE
EFT125068	26/04/2018 THE MIST MUSIC
EFT125069	26/04/2018 MJB INDUSTRIES PTY LTD
EFT125070	26/04/2018 MODERN TEACHING AIDS PTY LTD
EFT125071	26/04/2018 ANTHONY MOIR
EFT125072	26/04/2018 MOORE JOINERY AND CABINET MAKERS
EFT125073	26/04/2018 KRIS NELSON
EFT125074	26/04/2018 NORTH ROAD SUPA IGA
EFT125075	26/04/2018 OCS SERVICES PTY LTD
EFT125076	26/04/2018 OFFICEWORKS SUPERSTORES PTY LTD
EFT125077	26/04/2018 OKEEFE'S PAINTS
EFT125078	26/04/2018 IXOM
EFT125079	26/04/2018 ORIGIN ENERGY
EFT125080	26/04/2018 PERTH SAFETY PRODUCTS PTY LTD
EFT125081	26/04/2018 PFD FOOD SERVICES PTY LTD
EFT125082	26/04/2018 PHILLIP BEST PLUMBING PTY LTD
EFT125083	26/04/2018 ALBANY PLUMBING AND GAS
EFT125084	26/04/2018 RACHAEL CLAIRE COLMER
EFT125085	26/04/2018 RAECO INTERNATIONAL PTY LTD
EFT125086	26/04/2018 DAVID RASTRICK
EFT125087	26/04/2018 WP REID
EFT125088	26/04/2018 REPLICA MEDALS & RIBBONS PTY LTD
EFT125089	26/04/2018 R-GROUP INTERNATIONAL
EFT125090	26/04/2018 HAZEL ROOME
EFT125091	26/04/2018 JOANNA SASSOON
EFT125092	26/04/2018 SEEK LIMITED
EFT125093	26/04/2018 SETON AUSTRALIA PTY LTD
EFT125094	26/04/2018 JOHN SHANHUN
EFT125095	26/04/2018 G & L SHEETMETAL
EFT125096	26/04/2018 SHILLER IMAGES
EFT125097	26/04/2018 SKILL HIRE WA PTY LTD
EFT125098	26/04/2018 TRACY SLEEMAN
EFT125099	26/04/2018 SANDIE SMITH
EFT125100	26/04/2018 SOIL SOLUTIONS PTY LTD
EFT125101	26/04/2018 SOUTH COAST NATURAL RESOURCE MANAGEMENT INC
EFT125102	26/04/2018 STATEWIDE BUILDING CERTIFICATION WA
EFT125103	26/04/2018 REBECCA STEPHENS
EFT125104	26/04/2018 STIRLING PRINT

Chipping Services - C17022	\$ 893.75
Professional Services - Q16037	\$ 132.00
Repairs And Maintenance - Bench Press Cover	\$ 143.55
IT Equipment - Lenovo ThinkPad	\$ 1,562.00
Material Supply - Kettle	\$ 123.00
Professional Services - C16011	\$ 3,819.57
Professional Services - EAP	\$ 400.00
Lost And Damaged Book Charges	\$ 65.82
Material Supply - Jarrah Architrave	\$ 109.27
Professional Services - Active Albany Creative Workshop	\$ 60.00
Equipment Hire - Youth Week	\$ 5,243.50
Merchandise Order - Forts Store	\$ 770.00
Mandalay Annual Software Licence	\$ 32,613.82
Legal Services - SAT Claim	\$ 5,035.80
Storage Unit Rental	\$ 200.00
Entertainment - Youthfest 2018	\$ 200.00
Drainage Products - C15009	\$ 19,889.92
Material Supply - Educational Goods	\$ 118.45
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Supply And Installation - ALAC Trophy Cabinets	\$ 10,780.00
Songwriter Sessions - VAC	\$ 350.00
Grocery Supplies	\$ 16.96
Cleaning Services - C15015	\$ 135.52
Material Supply - Cables	\$ 184.38
Painting Supplies - Road Marking Paint	\$ 793.00
Material Supply - Chlorine	\$ 348.50
Gas Usage	\$ 4,605.05
Signage - Roads	\$ 1,320.00
Milk Supplies	\$ 44.40
Plumbing Services - ALAC Spa	\$ 509.56
Plumbing Services - C17020	\$ 10,165.03
Entertainment - FAR Fringe	\$ 156.25
Material Supply - Rubber Stops	\$ 601.70
Professional Services - Penelope And Marlin	\$ 150.00
Brick Paving Services - C16026	\$ 20,879.00
Merchandise Order - Forts Store	\$ 175.56
IT Server Upgrades - C17024	\$ 14,092.97
Professional Services - EAP	\$ 250.00
Material Supply - Literature	\$ 90.00
Advertising - Vacant Position	\$ 665.50
Material Supply - Wall Mount Unit	\$ 251.90
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Professional Services - Cover Plates For Bollards	\$ 240.00
Merchandise Order - Forts Store	\$ 1,522.39
Casual Staff/Apprentice Fees	\$ 4,158.39
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Bulk Green Waste Passes	\$ 15,335.66
Professional Services - Reserves Officer	\$ 3,520.00
Design Compliance Certificate - Ag Society Dongas	\$ 365.00
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Material Supply - Tags	\$ 90.00

	26/04/2019 ST JOHN AMPLILANCE WESTERN ALISTRALIA LTD
EF1123103	
EF1125106	26/04/2018 GREGORY BRIAN STOCKS
EF1125107	26/04/2018 ALBANY LOCK SERVICE
EF1125108	26/04/2018 ROBERT SUITON
EFT125109	26/04/2018 SYNERGY
EFT125110	26/04/2018 T & C SUPPLIES
EFT125111	26/04/2018 TALIS CONSULTANTS PTY LTD
EFT125112	26/04/2018 TEEDE & CO
EFT125113	26/04/2018 PAUL TERRY
EFT125114	26/04/2018 THINKWATER ALBANY
EFT125115	26/04/2018 TRUCKLINE
EFT125116	26/04/2018 WESTERN AUSTRALIAN CRICKET ASSOCIATION INC
EFT125117	26/04/2018 ALBANY & GREAT SOUTHERN WEEKENDER
EFT125118	26/04/2018 DENNIS WELLINGTON
EFT125119	26/04/2018 WESTERBERG PANEL BEATERS
EFT125120	26/04/2018 WESTERN AUSTRALIAN LOCAL GOVERNMENT ASSOCIATION
EFT125121	26/04/2018 WHITFIELD ESTATE & PAWPRINT CHOCOLATE
EFT125122	26/04/2018 WILLSIGN & DISPLAY
EFT125123	26/04/2018 WESFARMERS LTD
EFT125124	26/04/2018 L YATES
EFT125125	26/04/2018 ZENITH LAUNDRY
EFT125127	01/05/2018 WESTERN AUSTRALIAN TREASURY CORPORATION
EFT125128	03/05/2018 EXCLAIMER LTD
EFT125129	03/05/2018 ABA SECURITY
EFT125130	03/05/2018 ACORN TREES AND STUMPS
EET125131	03/05/2018 AD CONTRACTORS PTY LTD
EFT125132	03/05/2018 AIRPORT LIGHTING SPECIALISTS PTY LTD
EET125133	03/05/2018 ALBANY HYDRAULICS
EFT125134	03/05/2018 ALBANY INDUSTRIAL SERVICES PTY LTD
EET125135	03/05/2018 ALBANY CITY LAWNS
EFT125136	03/05/2018 ALBANY V-BELT AND RUBBER
EFT125137	03/05/2018 ALBANY SWEEP CLEAN
EFT125138	03/05/2018 ALBANY COMMUNITY HOSPICE
EFT125139	03/05/2018 ALBANY INDOOR PLANT HIRE AND SALES
EFT125140	03/05/2018 ALBANY CHAMBER OF COMMERCE AND INDUSTRY
EFT125141	03/05/2018 ALBANY POWDER COATERS
EFT125142	03/05/2018 ALBANY PANEL BEATERS AND SPRAY PAINTERS
EFT1251/13	03/05/2018 ALBANY AGRICHTURAL SOCIETY INCORPORATED
EFT125144	03/05/2018 ALBANY REFRIGERATION
EFT125145	
EFT125146	
EFT125140	
EET125147	
EFT125140	
EFT125149	
EF1123150	03/05/2010 ALDANY TANKS
EF1120101	
EF1120102	
EF1125153	
EF1125154	
EF1125155	UJ/UJ/ZUTA ALTUS PLANNING
EF1125156	U3/U5/2018 AMG SUPER
EF1125157	U3/U5/2018 A & M MEDICAL SERVICES

First Aid Kit Replenishment	\$ 319.00
Deputy Mayoral Allowance And Sitting Fee - April 2018	\$ 4,760.83
Repairs And Maintenance - ALAC Foyer	\$ 126.00
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Electricity Charges	\$ 10,263.80
Hardware And Tool Supplies - Various	\$ 638.93
Environmental Report - SAT Appeal	\$ 5,506.88
Catering - Green Team Movie Session	\$ 225.00
Councillor Allowance And Sitting Fee - April 2018	\$ 2,909.47
Material Supply - Submersible Pump	\$ 1,210.00
Material Supply - Filters	\$ 396.34
Material Supply - Wicket Soil	\$ 1,950.00
Advertising - Vancouver Street Festival	\$ 530.59
Mayoral Allowance And Sitting Fee - April 2018	\$ 11,621.69
Material Supply - Tow Ball	\$ 95.00
Staff Training - Tree Health	\$ 88.00
Merchandise Order - Forts Store	\$ 439.10
Signage - Perth Caravan And Camping Show 2018	\$ 790.00
Staff Uniforms - ALAC	\$ 52.70
Staff Reimbursement	\$ 266.78
_aundry Services/Hire	\$ 34.67
_oan Repayment	\$ 48.683.34
Subscriptions - Email Software	\$ 1.566.50
Repairs And Maintenance - North Road Entry Doors	\$ 2,495.00
Slashing Services - Fire Access Tracks	\$ 2.376.00
Equipment Hire - C16012	\$ 7.150.53
Material Supply - Runway Light	\$ 1.771.00
Material Supply - Coupling	\$ 476.69
Equipment Hire - C16012	\$ 5.610.00
awn Mowing Services - Lancaster Park	\$ 957.00
Material Supply - Camlock	\$ 12.25
Sweeping Services - C15014	\$ 829.00
Pavroll Deductions	\$ 64.00
ndoor Plant Hire	\$ 1.323.52
Advertising - Community Service Group	\$ 517.18
Professional Services - Running Tracks To Door	\$ 137.50
/ehicle Towing - Contract Car	\$ 93.50
Pavilion Hire - Ranger Relocation	\$ 2.300.00
Air-Conditioning Maintenance - C15021	\$ 1,248.58
Stationery Supplies - Q17039	\$ 111.40
Reticulation Supplies - April 2018	\$ 5.361.53
Payroll Deductions	\$ 10.00
Archive Storage - Records	\$ 221.10
Supply And Installation - Blinds At Lotteries House	\$ 832.00
Cleaning Services - Animal Waste	\$ 175.00
Supply And Installation - Water Tank - CPSP	\$ 3.500.00
Gas Charges	\$ 8.95
Equipment Hire - Youthfest	\$ 326.00
Catering - Youthfest Volunteers	\$ 220.00
Professional Services - SAT Claim	\$ 4,851.41
Superannuation Contributions	\$ 863.54
Medical Equipment Service - ALAC	\$ 699.94

EFT125158	03/05/2018 ANDREW HALSALL PHOTOGRAPHY	Merchandise
EFT125159	03/05/2018 PAPERBARK MERCHANTS	Material Sup
EFT125160	03/05/2018 ANNETTE DAVIS	Professional
EFT125161	03/05/2018 ARDESS NURSERY	Nursery Sup
EFT125162	03/05/2018 ATC WORK SMART	Casual Staff
EFT125163	03/05/2018 AUSTRALIAN TAXATION OFFICE	Payroll Dedu
EFT125164	03/05/2018 AUSTRALIAN SERVICES UNION WA BRANCH	Payroll Dedu
EFT125165	03/05/2018 BAKERS FOOD & FUEL	Refreshmen
EFT125166	03/05/2018 BT EQUIPMENT PTY LTD (TUTT BRYANT EQUIPMENT)	Material Sup
EFT125167	03/05/2018 BARRETTS MINI EARTHMOVING & CHIPPING	Vegetation M
EFT125168	03/05/2018 BENNETTS BATTERIES	Material Sup
EFT125169	03/05/2018 ADVANCED TRAFFIC MANAGEMENT WA PTY LTD	Traffic Contr
EFT125170	03/05/2018 BEST OFFICE SYSTEMS	Material Sup
EFT125171	03/05/2018 BIG SKY PUBLISHING	Merchandise
EFT125172	03/05/2018 BLACK AND WHITE CONCRETING	Material Sup
EFT125173	03/05/2018 ALBANY BOBCAT SERVICES	Equipment H
EFT125174	03/05/2018 BRANDNET PTY LTD T/AS MILITARY SHOP	Merchandise
EFT125175	03/05/2018 COLIN BRINHAM FENCING & RETAINING WALLS	Fencing Sup
EFT125176	03/05/2018 BUILDERS REGISTRATION BOARD	BSL Levy
EFT125177	03/05/2018 BUNNINGS GROUP LIMITED	Material Sup
EFT125178	03/05/2018 C&C MACHINERY CENTRE	Asset Purcha
EFT125179	03/05/2018 CAMTRANS ALBANY PTY LTD	Paving Supp
EFT125180	03/05/2018 J & S CASTLEHOW ELECTRICAL SERVICES	Electrical Se
EFT125181	03/05/2018 CENTIGRADE SERVICES PTY LTD	ALAC Mainte
EFT125182	03/05/2018 CENTRAL REGIONAL TAFE	Staff Training
EFT125183	03/05/2018 CENTENNIAL STADIUM INC	Venue Hire -
EFT125184	03/05/2018 CHERRY BOOTS ALBANY	Merchandise
EFT125185	03/05/2018 CHILD SUPPORT AGENCY	Payroll Dedu
EFT125186	03/05/2018 CLARK EQUIPMENT SALES PTY LTD	Material Sup
EFT125187	03/05/2018 CMM TECHNOLOGY	Repairs And
EFT125188	03/05/2018 COATES HIRE OPERATIONS PTY LIMITED	Equipment H
EFT125189	03/05/2018 COLES SUPERMARKETS AUSTRALIA PTY LTD	Groceries - \
EFT125190	03/05/2018 COURIER AUSTRALIA	Freight Char
EFT125191	03/05/2018 BARRIER COUNSELLING AND PSYCHOLOGICAL SERVICES	Professional
EFT125192	03/05/2018 HOLCIM (AUSTRALIA) PTY LTD	Concrete Su
EFT125193	03/05/2018 AL CURNOW HYDRAULICS	Material Sup
EFT125194	03/05/2018 D & K ENGINEERING	Fabrication S
EFT125195	03/05/2018 DEFIBTECH	Material Sup
EFT125196	03/05/2018 CGS QUALITY CLEANING	Cleaning Ser
EFT125197	03/05/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY	Hygiene Ser
EFT125198	03/05/2018 DOWNRITE DEMOLITION	Demolition S
EFT125199	03/05/2018 DYLANS ON THE TERRACE	Catering - Va
EFT125200	03/05/2018 EASIFLEET MANAGEMENT	Payroll Dedu
EFT125201	03/05/2018 ALBANY ENGINEERING COMPANY	Repairs And
EFT125202	03/05/2018 ENTS FORESTRY PTY LTD	Managemen
EFT125203	03/05/2018 ENVISION WARE PTY LTD	IT Upgrade -
EFT125204	03/05/2018 ENVIRO PIPES PTY LTD	Material Sup
EFT125205	03/05/2018 ALBANY FENCING COMPANY	Equipment H
EFT125206	03/05/2018 F E TECHNOLOGIES PTY LTD	Library RFID
EFT125207	03/05/2018 FIONA JANE PHOTOGRAPHY	Photography
EFT125208	03/05/2018 FLIPS ELECTRICS	Repairs And
EFT125209	03/05/2018 FOXTEL MANAGEMENT PTY LTD	Business Pa

handise Order - Visitor Centre	\$ 90.00
rial Supply - Literature	\$ 375.45
essional Services - Artwork Installation	\$ 150.00
ery Supply - Grasstrees	\$ 2,100.00
ual Staff/Apprentice Fees	\$ 20,753.40
oll Deductions	\$ 394,880.26
oll Deductions	\$ 3,546.15
eshments - Douglas Road Fire	\$ 295.00
rial Supply - Cap	\$ 84.79
etation Maintenance - C17022	\$ 7,504.00
rial Supply - Oil And Batteries	\$ 1,038.40
ic Control Services - C17014	\$ 12,662.67
rial Supply - Docket Printer	\$ 879.00
handise Order - Forts Store	\$ 1,179.36
rial Supply - Concrete Footings	\$ 2,320.00
pment Hire - C16012	\$ 2,828.38
handise Order - Forts Store	\$ 2,806.96
ing Supplies - CPSP	\$ 27,500.00
Levy	\$ 13,667.33
rial Supply - Paint And Plants	\$ 376.74
t Purchase - Trimax Mower	\$ 27,922.40
ng Supplies - CPSP	\$ 11,031.63
trical Services - C17032 And C17013	\$ 8,291.76
C Maintenance Services - Q16009	\$ 1,012.46
Training - Government Planning	\$ 155.26
e Hire - Sportsperson Of The Year Awards	\$ 11,184.10
handise Order - Visitor Centre	\$ 405.00
oll Deductions	\$ 1,635.02
rial Supply - Track Rollers	\$ 863.87
airs And Maintenance - Airport Breathalyser	\$ 115.50
pment Hire - Transportable Toilet	\$ 88.00
eries - Various	\$ 410.04
ht Charges	\$ 1,292.81
essional Services - EAP	\$ 850.00
crete Supplies - C15009/C16010	\$ 5,686.78
rial Supply - Oil	\$ 172.70
ication Services - Frames	\$ 1,704.12
rial Supply - Defibrillator	\$ 2,849.75
ning Services - C14036	\$ 42,751.91
ene Services And Cleaning Products - Q16024	\$ 3,575.40
olition Services - Q18010	\$ 22,313.50
ring - Various - Council Meetings And Visitor Centre Breakfast	\$ 2,872.10
oll Deductions	\$ 12,858.19
airs And Maintenance - Freeroll Shaft	\$ 2,659.13
agement Services -Q17056	\$ 2,541.00
ograde - Library	\$ 990.00
rial Supply - CPSP	\$ 6,190.80
pment Hire - Youth Festival	\$ 440.00
iry RFID	\$ 7,827.60
ography Services - Sports Person Of The Year Awards	\$ 500.00
airs And Maintenance - Pump	\$ 913.00
ness Package Subscription	\$ 750.00

EFT125210 03/05/2018 FRANGIPANI FLORAL STUDIO EFT125211 03/05/2018 GIBSON IMPORTING EFT125212 03/05/2018 GORDON WALMSLEY PTY LTD EFT125213 03/05/2018 GRACE REMOVALS GROUP EFT125214 03/05/2018 GREAT SOUTHERN SPRINGS EFT125215 03/05/2018 GREAT SOUTHERN PEST & WEED CONTROL EFT125216 03/05/2018 GREAT SOUTHERN PERSONNEL INC EFT125217 03/05/2018 GREAT SOUTHERN SUPPLIES EFT125218 03/05/2018 GREENMAN TRADING COMPANY EFT125219 03/05/2018 GSM AUTO ELECTRICAL EFT125220 03/05/2018 HARVEY NORMAN ALBANY EFT125221 03/05/2018 HIMAC ATTACHMENTS EFT125222 03/05/2018 HOBBS PAINTING AND DECORATING EFT125223 03/05/2018 H+H ARCHITECTS EFT125224 03/05/2018 ICKY FINKS WAREHOUSE SALES EFT125225 03/05/2018 QUBE LOGISTICS PTY LTD EFT125226 03/05/2018 J FREEMAN EFT125227 03/05/2018 JOHN KINNEAR AND ASSOCIATES EFT125228 03/05/2018 JO JOES DIAL A PIZZA AND KEBAB EFT125229 03/05/2018 J KARAJCIC EFT125230 03/05/2018 KOJANEERUP VOLUNTEER BUSHFIRE BRIGADE EFT125231 03/05/2018 ALBANY PLASTERING AND RENDERING FFT125232 03/05/2018 LATRO LAWYERS EFT125233 03/05/2018 LEDA SECURITY PRODUCTS PTY LTD EFT125234 03/05/2018 STATE LIBRARY OF WESTERN AUSTRALIA EFT125235 03/05/2018 LORLAINE DISTRIBUTORS PTY LTD EFT125236 03/05/2018 LUCAS COPPER DESIGN EFT125237 03/05/2018 M AND B SALES PTY LTD EFT125238 03/05/2018 ALBANY EVENT HIRE EFT125239 03/05/2018 ALBANY CITY MOTORS EFT125240 03/05/2018 MANYPEAKS STORE EFT125241 03/05/2018 JOHN KEVAN MANSON EFT125242 03/05/2018 MCB CONSTRUCTION PTY LTD EFT125243 03/05/2018 METROOF ALBANY EFT125244 03/05/2018 MJB INDUSTRIES PTY LTD EFT125245 03/05/2018 MOUNT ROMANCE AUSTRALIA PTY LTD EFT125246 03/05/2018 NURRUNGA COMMUNICATIONS EFT125247 03/05/2018 MULE CREATIVE EFT125248 03/05/2018 ALBANY NEWS DELIVERY EFT125249 03/05/2018 NLC PTY LTD EFT125250 03/05/2018 OFFICEWORKS SUPERSTORES PTY LTD EFT125251 03/05/2018 OKEEFE'S PAINTS EFT125252 03/05/2018 ORIGIN ENERGY EFT125253 03/05/2018 OTIS ELEVATOR COMPANY PTY LTD EFT125254 03/05/2018 PFD FOOD SERVICES PTY LTD EFT125255 03/05/2018 ALBANY PLUMBING AND GAS EET125256 03/05/2018 PRINTSYNC BUSINESS SOLUTIONS EFT125257 03/05/2018 PROPAGULE CONSULTING PTY LTD EFT125258 03/05/2018 QUICK SHOT COFFEE EFT125259 03/05/2018 GREAT SOUTHERN RADIOLOGY EFT125260 03/05/2018 REEVES ON CAMPBELL EFT125261 03/05/2018 REECE PTY LTD

Vreath Arrangements - Anzac 2018	\$ 320.00
Nerchandise Order - Forts Store	\$ 720.85
Asphalt Services - C15007	\$ 61,496.00
Removalist Services - Rangers Relocation	\$ 2,345.33
Material Supply - Coil And Brackets	\$ 510.00
Pest Control Services - Q17027	\$ 115.00
Casual Staff/Apprentice Fees	\$ 40.00
Naterial Supply - Staff Uniforms And Consumables	\$ 7,281.53
/egetation Maintenance - C17022	\$ 2,332.00
Material Supply - Switch	\$ 53.10
Naterial Supply - Camera	\$ 640.00
Material Supply - Cutting Edge Nuts And Bolts	\$ 392.92
Painting Services - Q17037	\$ 506.00
Design Services - C16007	\$ 6,567.00
Art Classes - VAC	\$ 294.79
Aaterial Supply - Chlorine	\$ 2,263.59
Staff Reimbursement	\$ 74.35
Survey Services - C16016	\$ 5,932.99
Catering - Council Meeting	\$ 120.00
Refund	\$ 33.00
3FB Reimbursement - Parts For Fire Trailer	\$ 1,532.45
Rendering Services - UWA	\$ 440.00
Professional Services - C16011	\$ 4,854.84
E-Bike Repairs And Maintenance	\$ 1,469.60
nter-Library Loan Charges	\$ 33.00
Cleaning Supplies - Bin Liners	\$ 124.00
Merchandise Order - Forts Store	\$ 500.00
/laterial Supply - Pine	\$ 119.17
Equipment Hire - WAFL Match	\$ 2,083.90
/laterial Supply - Switch	\$ 195.36
Fuel Purchases - Fire Brigade	\$ 112.78
Albany Art Prize 2018 - Highly Commended	\$ 2,500.00
Supply And Install - Ticket Box CPSP	\$ 12,354.98
Aterial Supply - Corrugated Roofing	\$ 524.66
Drainage Supplies - C15009	\$ 20,051.96
Aerchandise Order - Forts Store	\$ 1,440.22
Radio Repairs And Maintenance - Rangers Relocation	\$ 362.51
Convoy Campout and Festival Photography	\$ 495.00
Newspaper Deliveries	\$ 129.90
Novated Lease And Associated Costs	\$ 1,351.30
Material Supplies - Various	\$ 389.28
Painting Supplies	\$ 85.25
Gas Usage	\$ 4,999.60
ift Maintenance - Town Hall	\$ 730.90
Refreshments - Office Supplies	\$ 251.15
Plumbing Services - C17020	\$ 584.52
Photocopier Charges - Lotteries House	\$ 9.39
Consultation Services - Albany Centennial Precinct	\$ 2,805.00
Refreshments - Youthfest 2018	\$ 85.00
Professional Services - OHS	\$ 110.00
Catering - In The Lamplight Author Event	\$ 325.00
Aaterial Supply - Seat	\$ 54.59

EFT125262	03/05/2018 REPLICA MEDALS & RIBBONS PTY LTD
EFT125263	03/05/2018 RESOURCE FURNITURE
EFT125264	03/05/2018 REXEL AUSTRALIA
EFT125265	03/05/2018 ROIMATA CAROLINE MANAPOURI KEEPA-TIBBLE
EFT125266	03/05/2018 CARLYLES FUNCTION CENTRE
EFT125267	03/05/2018 ALBANY SCAFFOLD HIRE
EFT125268	03/05/2018 SEEK LIMITED
EFT125269	03/05/2018 SKILL HIRE WA PTY LTD
EFT125270	03/05/2018 DAMIAN SMITH
EFT125271	03/05/2018 SOIL SOLUTIONS PTY LTD
EFT125272	03/05/2018 SOUTHERN TOOL AND FASTENER CO
EFT125273	03/05/2018 SOUTHCOAST SECURITY SERVICE
EFT125274	03/05/2018 SOUTHERN EDGE ARTS INC
EFT125275	03/05/2018 STAR SALES AND SERVICE
EFT125276	03/05/2018 DEPARTMENT OF THE PREMIER & CABINET
EFT125277	03/05/2018 ALBANY VOLUNTEER STATE EMERGENCY SERVICE UNIT INC
EFT125278	03/05/2018 STATEWIDE BEARINGS
EFT125279	03/05/2018 STATEWIDE BUILDING CERTIFICATION WA
EFT125280	03/05/2018 STIRLING PRINT
EFT125281	03/05/2018 ST JOHN AMBULANCE WESTERN AUSTRALIA LTD
EFT125282	03/05/2018 ALBANY LOCK SERVICE
EFT125283	03/05/2018 ALBANY IGA
EFT125284	03/05/2018 SYNERGY
EFT125285	03/05/2018 T & C SUPPLIES
EFT125286	03/05/2018 THE 12 VOLT WORLD
EFT125287	03/05/2018 THINKWATER ALBANY
EFT125288	03/05/2018 SARAH THORNTON-SMITH
EFT125289	03/05/2018 TRUCKLINE
EFT125290	03/05/2018 UNITED BOOK DISTRIBUTORS
EFT125291	03/05/2018 VARIDESK LLC
EFT125292	03/05/2018 VOEGELER CREATIONS
EFT125293	03/05/2018 RT & JR WALKER
EFT125294	03/05/2018 WA NATURALLY PUBLICATIONS
EFT125295	03/05/2018 WARTHOG WA
EFT125296	03/05/2018 ALBANY & GREAT SOUTHERN WEEKENDER
EFT125297	03/05/2018 WESTERN AUSTRALIAN LOCAL GOVERNMENT ASSOCIATION
EFT125298	03/05/2018 HOLIDAY GUIDE PTY LTD
EFT125299	03/05/2018 ZENITH LAUNDRY
EFT125300	07/05/2018 PROJECT3 PTY LTD
EFT125301	10/05/2018 A1 SANDBLASTING
EFT125302	10/05/2018 ABA SECURITY
EFT125303	10/05/2018 ABBOTTS LIQUID SALVAGE PTY LTD
EFT125304	10/05/2018 AD CONTRACTORS PTY LTD
EFT125305	10/05/2018 AECOM AUSTRALIA PTY LTD
EFT125306	10/05/2018 ALBANY INDUSTRIAL SERVICES PTY LTD
EFT125307	10/05/2018 ALBANY V-BELT AND RUBBER
EFT125308	10/05/2018 ALBANY OFFICE NATIONAL
EFT125309	10/05/2018 TRICOAST CIVIL
EFT125310	10/05/2018 ALBANY REFRIGERATION
EFT125311	10/05/2018 ALBANY LANDSCAPE SUPPLIES
EFT125312	10/05/2018 ALBANY OFFICE PRODUCTS DEPOT
EFT125313	10/05/2018 ALBANY BOWLING CLUB

Merchandise Order - Forts Store	\$ 263.78
Furniture And Equipment - Library Relocation	\$ 18,441.54
Material Supply - Stop Control	\$ 79.86
Music Services - Youthfest 2018	\$ 200.00
Venue Hire - Book Launch	\$ 400.00
Equipment Hire - Viewing Platform Silo Trail	\$ 1,485.00
Advertising - Vacant Position	\$ 302.50
Casual Staff/Apprentice Fees	\$ 6,515.24
Judge - Albany Art Prize 2018	\$ 840.00
Material Supply - C16015	\$ 363.00
Tool And Hardware Supplies - Cut-Off Saw	\$ 1,570.00
Security Services - C15016	\$ 2,255.67
Professional Services - Penelope And Marlin	\$ 750.00
Material Supply - Cord And Head	\$ 276.25
Publication Of Waste Local Law 2017	\$ 1,130.20
LGGS Allocation - April To June 2018	\$ 15,895.83
Material Supply - Housing And Seals	\$ 182.60
Construction Compliance Certificate - Mercer Road Refit	\$ 365.00
Printing - Submariners Memorial Service	\$ 55.00
Staff Training - First Aid	\$ 320.00
Key Upgrades - C14003	\$ 1,050.85
Groceries - Visitor Centre	\$ 72.46
Electricity Charges	\$ 51,413.00
Hardware And Tool Supplies - Various	\$ 607.39
Repairs And Maintenance - Starter Motor	\$ 1,486.50
Reticulation Supplies - April 2018	\$ 5,536.94
Artwork Sale - Albany Art Prize 2018	\$ 825.00
Material Supply - Filter And Seal	\$ 99.92
Merchandise Order - Forts Store	\$ 97.46
Material Supply - Mat And Varidesk	\$ 620.00
Merchandise Order - Forts Store	\$ 883.00
Merchandise Order - Forts Store	\$ 924.00
Merchandise Order - Visitor Centre	\$ 230.40
Equipment Hire - Parts Washer	\$ 250.00
Advertising - Various	\$ 991.99
Mayoral Training	\$ 62.00
Booking Fees - April 2018	\$ 729.30
Laundry Services/Hire	\$ 103.21
Anzac Albany Festival And Convoy Campout - Milestone 4	\$ 55,000.00
Sandblasting Services - Plates	\$ 75.35
Security Services - Alarms	\$ 55.00
Waste Services - Public Amenities	\$ 3,699.00
Equipment Hire - C16012	\$ 3,008.25
Professional Services - Mounts Precinct	\$ 3,960.00
Equipment Hire - C16012	\$ 54,193.18
Material Supplies - Various	\$ 1,157.94
Material Supply - Laminate	\$ 60.00
Progress Certificate 1 - C17029	\$ 46,939.35
Air-Conditioning Maintenance - C15021	\$ 1,405.66
Material Supply - Gravel	\$ 748.00
Stationery Supplies - Q17039	\$ 764.15
Active Albany - Lawn Bowls	\$ 240.00

EFT125314 10/05/2018 ALBANY NETBALL ASSOCIATION EFT125315 10/05/2018 ALBANY PSYCHOLOGICAL SERVICES EFT125316 10/05/2018 ALBANY QUALITY LAWNMOWING EFT125317 10/05/2018 ALBANY MILK DISTRIBUTORS EFT125318 10/05/2018 ALBANY RECORDS MANAGEMENT EFT125319 10/05/2018 ALBANY DOMESTIC SERVICES EFT125320 10/05/2018 ALBANY AERIAL IMAGING EFT125321 10/05/2018 ALINTA EFT125322 10/05/2018 ALL EVENTS HIRE AND PRODUCTION EFT125323 10/05/2018 AON RISK SERVICES AUSTRALIA LIMITED EFT125324 10/05/2018 ASP ALLOY AND STAINLESS PRODUCTS EFT125325 10/05/2018 ATC WORK SMART EFT125326 10/05/2018 AUSTRALIAN PVC CARDS PTY LTD EFT125327 10/05/2018 BADGEMATE EFT125328 10/05/2018 BARBEQUES GALORE ALBANY EFT125329 10/05/2018 ADVANCED TRAFFIC MANAGEMENT WA PTY LTD EFT125330 10/05/2018 BERTOLA HIRE ALBANY PTY LTD EFT125331 10/05/2018 BEST OFFICE SYSTEMS EFT125332 10/05/2018 BLACK AND WHITE CONCRETING EFT125333 10/05/2018 J. BLACKWOOD & SON PTY LTD EFT125334 10/05/2018 BLOOMIN FLOWERS SPENCER PARK EFT125335 10/05/2018 ALBANY BOBCAT SERVICES EET125336 10/05/2018 BOND ELECTRICS EFT125337 10/05/2018 BOOKEASY AUSTRALIA PTY LTD EFT125338 10/05/2018 AIR BP EFT125339 10/05/2018 BP BIRD PLUMBING & GAS PTY LTD EFT125340 10/05/2018 BRANDNET PTY LTD EFT125341 10/05/2018 BRIDGESTONE AUSTRALIA LTD EFT125342 10/05/2018 CONSTRUCTION TRAINING FUND EFT125343 10/05/2018 BUNNINGS GROUP LIMITED EFT125344 10/05/2018 BUSY BLUE BUS EFT125345 10/05/2018 CABCHARGE AUSTRALIA LIMITED EFT125346 10/05/2018 CALTEX AUSTRALIA PETROLEUM PTY LTD EFT125347 10/05/2018 CAREY TRAINING PTY LTD EFT125348 10/05/2018 J & S CASTLEHOW ELECTRICAL SERVICES EFT125349 10/05/2018 THE CENTRE OF SUSTAINABLE TOURISM EFT125350 10/05/2018 CENTENNIAL STADIUM INC EFT125351 10/05/2018 MAGIQ SOFTWARE PTY LTD EFT125352 10/05/2018 CLARK EQUIPMENT SALES PTY LTD EFT125353 10/05/2018 COASTLINE GARAGE DOORS AND GATES EFT125354 10/05/2018 COLES SUPERMARKETS AUSTRALIA PTY LTD EFT125355 10/05/2018 ALBANY SIGNS EFT125356 10/05/2018 HOLCIM (AUSTRALIA) PTY LTD EFT125357 10/05/2018 AL CURNOW HYDRAULICS EFT125358 10/05/2018 D & K ENGINEERING EFT125359 10/05/2018 DAVID MARTIN ELECTRICAL CONTRACTOR EET125360 10/05/2018 DE JONGE MECHANICAL PTY LTD EFT125361 10/05/2018 DENMARK JUNIOR SOCCER CLUB EFT125362 10/05/2018 DEPARTMENT OF BIODIVERSITY CONSERVATION AND ATTRACTIONS 10/05/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY EFT125363 EFT125364 10/05/2018 SANDRA DIXON EFT125365 10/05/2018 RICCI DRAPER

Kidsport Vouchers	\$ 4,164.00
Professional Services - EAP	\$ 726.00
Lawn Mowing Services - Lotteries House	\$ 110.00
Milk Supplies	\$ 205.44
Archive Storage - Library	\$ 462.00
Cleaning Services - Animal Waste	\$ 175.00
Videography Services - WAFL Match	\$ 350.00
Gas Charges	\$ 86.35
Provision of AV for WAFL Match	\$ 3,208.00
Valuation Services - Leasing	\$ 1,210.00
Material Supply - Blades	\$ 1,150.60
Casual Staff/Apprentice Fees	\$ 19,086.39
Membership Cards - ALAC	\$ 1,265.00
Uniform Supplies - Name Badges	\$ 107.47
Material Supply - Gas Heater And Bottles	\$ 420.00
Traffic Control Services - C17014	\$ 7,555.08
Equipment Hire - CPSP	\$ 257.40
Material Supply - Dymo Labels	\$ 294.00
Professional Services - CPSP	\$ 1,856.00
Material Supply - Line Marking Applicator	\$ 48.25
Floral Arrangement - Arrival Of Staff Baby	\$ 60.00
Equipment Hire - C16012	\$ 187.00
Conveyor Repairs And Maintenance - Airport	\$ 4,724.00
Booking Fees - April 2018	\$ 2,391.81
AV Gas Purchases	\$ 146.95
Professional Services - Oil Separator	\$ 98.00
Merchandise Order - Forts Store	\$ 576.66
Tyre Repairs And Maintenance - Truck	\$ 7,567.25
CTF Levy	\$ 15,636.49
Material Supply - Pine And Plants	\$ 232.90
Coach Hire - WAFL Game	\$ 1,596.50
Taxi Charges	\$ 524.93
Fuel Purchases - Bulk Diesel	\$ 22,122.90
Staff Training - Civil Construction	\$ 585.00
Electrical Services - C17032 And C17013	\$ 2,493.79
Professional Services - Australia Day Festival 2018	\$ 850.00
Pressure Cleaning - Albany Royal Show 2018	\$ 220.00
Subscriptions - Budgeting Software	\$ 7,815.50
Material Supply - Track Rollers	\$ 229.85
Repairs And Maintenance - Baggage Handling Motors	\$ 4,583.41
Groceries - Various	\$ 109.09
Signage - Airport	\$ 506.00
Concrete Supplies - C15009/C16010	\$ 9,375.52
Material Supply - Hose	\$ 67.11
Asset Purchase - Pig Trailer	\$ 48,084.93
Electrical Services - Nullaki Fire Shed	\$ 627.00
Vehicle Repairs And Maintenance - Q17009	\$ 725.00
Kidsport Vouchers	\$ 305.00
Park Passes - Visitor Centre	\$ 3,312.32
Hygiene Services And Cleaning Products - Q16024	\$ 1,216.35
Professional Services - EAP	\$ 400.00
Cleaning Services - Centennial Stadium	\$ 60.00

EFT125366	10/05/2018 DVA FABRICATIONS	Furniture - Library Relocation
EFT125367	10/05/2018 DYLANS ON THE TERRACE	Catering - OCM And Friendship
EFT125368	10/05/2018 TIMOTHY JAMES HEDLEY EDMUNDS	Professional Services - WAFL
EFT125369	10/05/2018 ELDERS LIMITED	Material Supply - Fertiliser
EFT125370	10/05/2018 E-STRALIAN PTY LTD	Weekly E-Bike Lease
EFT125371	10/05/2018 EYERITE SIGNS	Signage - Digital Banner And F
EFT125372	10/05/2018 ALBANY FENCING COMPANY	Equipment Hire - Anzac 2018
EFT125373	10/05/2018 ACE CAMERA CLUB (INC)	Photography Services - Anzac
EFT125374	10/05/2018 THE FIXUPPERY	Window Cleaning Services - Q
EFT125375	10/05/2018 PD GRAHAM	Refund
EFT125376	10/05/2018 SOUTH REGIONAL TAFE	Staff Training - First Aid
EFT125377	10/05/2018 GREAT SOUTHERN PEST & WEED CONTROL	Pest Control Services - Q1702
EFT125378	10/05/2018 GREAT SOUTHERN SUPPLIES	Consumable And Uniform Supp
EFT125379	10/05/2018 GREAT SOUTHERN TURF	Turf Supplies - C18001
EFT125380	10/05/2018 GHD PTY LTD	Drainage Repairs - NAC Claim
EFT125381	10/05/2018 HARPER ENTERTAINMENT DISTRIBUTION SERVICE	Merchandise Order - Forts Stor
EFT125382	10/05/2018 HIGHWAY WRECKERS	Abandoned Vehicle Removal
EFT125383	10/05/2018 HOBBS PAINTING AND DECORATING	Painting Services - Q17037
EFT125384	10/05/2018 S HORGAN	Refund
EFT125385	10/05/2018 J HORMAN	Refund
EFT125386	10/05/2018 HHG LEGAL GROUP	Legal Services - C16011
EFT125387	10/05/2018 J HUNT	Refund
EFT125388	10/05/2018 ALBANY MAPPING AND SURVEYING SERVICES	Survey Services - C16016
EFT125389	10/05/2018 JANDAKOT INSTRUMENTS	Calibration Services - Airport
EFT125390	10/05/2018 JUST SEW EMBROIDERY	Staff Uniforms - Embroidery
EFT125391	10/05/2018 JUST A CALL DELIVERIES	Internal Mail Deliveries
EFT125392	10/05/2018 KANGAS NETBALL CLUB	Kidsport Vouchers
EFT125393	10/05/2018 KESTON TECHNOLOGIES PTY LTD	Development Of A Regional Gr
EFT125394	10/05/2018 KIM ANGELA TOMLINSON	Professional Services - EAP
EFT125395	10/05/2018 LATRO LAWYERS	Professional Services - C1601
EFT125396	10/05/2018 LAWLEY PARK TENNIS CLUB	Kidsport Vouchers
EFT125397	10/05/2018 ALLY LAWRENCE	Professional Services - EAP
EFT125398	10/05/2018 E LEAK	Refund
EFT125399	10/05/2018 STATE LIBRARY OF WESTERN AUSTRALIA	Freight Charges - Library
EFT125400	10/05/2018 LORLAINE DISTRIBUTORS PTY LTD	Material Supply - Brush
EFT125401	10/05/2018 ALBANY EVENT HIRE	Equipment Hire - Anzac 2018
EFT125402	10/05/2018 ALBANY CITY MOTORS	Material Supply - Filters
EFT125403	10/05/2018 MARKETFORCE LIMITED	Advertising - Local Governmen
EFT125404	10/05/2018 MCKAILS GENERAL STORE	Catering - WAFL Match
EFT125405	10/05/2018 MHW INTEGRATION PTY LTD	Material Supply - Card Reader
EFT125406	10/05/2018 MJB INDUSTRIES PTY LTD	Drainage Supplies - C15009
EFT125407	10/05/2018 MULE CREATIVE	Design Services - Council Mee
EFT125408	10/05/2018 NBN CO LIMITED	Relocation Works - CPSP
EFT125409	10/05/2018 NEVILLES HARDWARE & BUILDING SUPPLIES	Hardware Supplies - Various
EFT125410	10/05/2018 PR AND ER NEWMAN'S QUALITY CONCRETE PRODUCTS	Concrete Supplies - C15009
EFT125411	10/05/2018 ALBANY NEWS DELIVERY	Newspaper Deliveries
EFT125412	10/05/2018 NORTH ALBANY FOOTBALL & SPORTING CLUB INC	Venue Hire And Catering - WA
EFT125413	10/05/2018 OCS SERVICES PTY LTD	Cleaning Services - C15015
EFT125414	10/05/2018 OFFICEWORKS SUPERSTORES PTY LTD	Material Supply - Easel
EFT125415	10/05/2018 OKEEFE'S PAINTS	Material Supply - Paint
EFT125416	10/05/2018 IXOM	Material Supply - Chlorine
EFT125417	10/05/2018 ORIGIN ENERGY	Gas Usage
		-

ure - Library Relocation	\$	950.00
ng - OCM And Friendship Force	\$	1,069.00
sional Services - WAFL Match	\$	300.00
al Supply - Fertiliser	\$	307.96
y E-Bike Lease	\$	182.18
ge - Digital Banner And Plaque Repairs	\$	761.20
nent Hire - Anzac 2018	\$	946.00
graphy Services - Anzac 2018	\$	250.00
w Cleaning Services - Q16023	\$	1,961.01
d	\$	1,176.23
raining - First Aid	\$	844.00
Control Services - Q17027	\$	115.00
mable And Uniform Supplies	\$	1.893.28
upplies - C18001	\$	2.178.00
de Repairs - NAC Claim 1	\$	8.800.00
andise Order - Forts Store	\$	389.84
oned Vehicle Removal	\$	88.00
ng Services - Q17037	\$	3.300.00
d	ŝ	54.65
- d	\$	54.65
~ Services - C16011	\$	761.20
4	\$	54 65
v Services - C16016	¢ ¢	453 75
ation Services - Airport	\$	360.25
Iniforms - Embroidery	¢ ¢	111 10
al Mail Deliveries	φ ¢	1 398 19
ar Mail Derivenes	φ ¢	300.00
opment Of A Regional Growth Fund (RGF)	φ ¢	8 302 80
sional Services - FAP	φ ¢	140.00
sional Services - C16011	φ \$	356 73
art Vouchers	Ψ ¢	240.00
sional Services - EAP	¢ ¢	240.00
	Ψ ¢	200.00 60.42
t Charges - Library	¢ ¢	2 376 53
al Supply - Brush	Ψ ¢	2,070.00
nent Hire - Anzac 2018	Ψ ¢	0 334 00
al Supply - Filters	Ψ Ψ	3,334.00
ising - Local Government Notices	Ψ ¢	1 346 08
ng - WAEL Match	¢ ¢	917.00
al Supply - Card Reader Covers	Ψ ¢	1 463 00
a Supplies - C15009	Ψ ¢	16 700 06
Services - Council Meet And Greet Flyer	¢ ¢	742 50
ation Works - CPSP	Ψ ¢	315.00
are Supplies - Various	¢ ¢	753.83
ate Supplies - C15009	Ψ ¢	216 15
aper Deliveries	Ψ Ψ	210.13
Hire And Catering - WAEL Dinner	Ψ Ψ	1 200 00
	Ψ Ψ	31 650 72
al Supply - Easel	¢ ¢	556 02
al Supply - Lassi	φ ¢	1 1 A E D 2
al Supply - Laint al Supply - Chloring	¢	2 060 10
ai Suppiy - Childhile sano	φ Φ	2,900.10 1 007 95
Jayo	Ф	+,907.00

EFT125418	10/05/2018 OTIS ELEVATOR COMPANY PTY LTD
EFT125419	10/05/2018 OYSTER HARBOUR STORE
EFT125420	10/05/2018 PALMER CIVIL CONSTRUCTION
EFT125421	10/05/2018 PENROSE PROFESSIONAL LAWNCARE
EFT125422	10/05/2018 PAV EVENTS
EFT125423	10/05/2018 PERTH SAFETY PRODUCTS PTY LTD
EFT125424	10/05/2018 PLANT SUPPLY COMPANY
EFT125425	10/05/2018 ALBANY PLUMBING AND GAS
EFT125426	10/05/2018 PORONGURUP PROMOTIONS ASSOCIATION INC
EFT125427	10/05/2018 PROTECTOR FIRE SERVICES
EFT125428	10/05/2018 REECE PTY LTD
EFT125429	10/05/2018 REPLAS WA
EFT125430	10/05/2018 RESINATE DESIGNS
EFT125431	10/05/2018 REXEL AUSTRALIA
EFT125432	10/05/2018 THE ROYAL LIFE SAVING SOCIETY WA INC
EFT125433	10/05/2018 ROYALS FOOTBALL CLUB
EFT125434	10/05/2018 SCHOLASTIC AUSTRALIA PTY LTD
EFT125435	10/05/2018 SECUREPAY PTY LTD
EFT125436	10/05/2018 GRAEME MITCHELL SIMPSON
EFT125437	10/05/2018 SKILL HIRE WA PTY LTD
EFT125438	10/05/2018 SOIL SOLUTIONS PTY LTD
EFT125439	10/05/2018 SOUTHERN TOOL AND FASTENER CO
EFT125440	10/05/2018 SOUTHERN DISTRICTS JUNIOR FOOTBALL ASSOCIATION
EFT125441	10/05/2018 SOUTHCOAST SECURITY SERVICE
EFT125442	10/05/2018 SOUTHERN EDGE ARTS INC
EFT125443	10/05/2018 SOUTH COAST ENVIRONMENTAL
EFT125444	10/05/2018 BLUESCOPE DISTRIBUTION PTY LTD
EFT125445	10/05/2018 ST JOHN AMBULANCE WESTERN AUSTRALIA LTD
EFT125446	10/05/2018 STRIKING PLANTS
EFT125447	10/05/2018 SUBWAY
EFT125448	10/05/2018 ALBANY LOCK SERVICE
EFT125449	10/05/2018 SYNERGY
EFT125450	10/05/2018 T & C SUPPLIES
EFT125451	10/05/2018 TALIS CONSULTANTS PTY LTD
EFT125452	10/05/2018 THINKWATER ALBANY
EFT125453	10/05/2018 THE TOFFEE FACTORY
EFT125454	10/05/2018 TRUCKLINE
EFT125455	10/05/2018 TTFS GROUP PTY LTD
EFT125456	10/05/2018 SAMUEL TURTON
EFT125457	10/05/2018 VOEGELER CREATIONS
EFT125458	10/05/2018 WATCH REPAIR CENTRE
EFT125459	10/05/2018 ALBANY & GREAT SOUTHERN WEEKENDER
EFT125460	10/05/2018 WESTRAC EQUIPMENT PTY LTD
EFT125461	10/05/2018 WESTERN AUSTRALIAN LOCAL GOVERNMENT ASSOCIATION
EFT125462	10/05/2018 LANDMARK LIMITED
EFT125463	10/05/2018 WEST AUSTRALIAN NEWSPAPERS LIMITED
EFT125464	10/05/2018 D WHITTAKER
EFT125465	10/05/2018 WOOLWORTHS GROUP LIMITED
EFT125466	10/05/2018 WOODORIGINAL
EFT125467	10/05/2018 ZENITH LAUNDRY
DD26014.1	24/04/2018 WA SUPER
DD26014.2	24/04/2018 ASGARD

Lift Repairs And Maintenance - Town Hall	\$ 13,222.67
Catering - Reserves	\$ 170.00
Progress Certificate 4 - C16021	\$ 154,449.11
Lawn Mowing Services - VAC	\$ 264.00
Equipment Hire - Anzac Day	\$ 18,000.00
Signage - Roads	\$ 1,106.60
Material Supply - Plants	\$ 444.13
Plumbing Services - C17020	\$ 2,169.86
Merchandise Order - Visitor Centre	\$ 35.20
Material Supply - Log Books	\$ 330.00
Material Supply - GEOFAB	\$ 343.20
Material Supply - Plants	\$ 3,324.42
Merchandise Order - Forts Store	\$ 1,425.60
Material Supply - Stop Control	\$ 79.86
Call Centre Fees - March 2018	\$ 643.01
Kidsport Vouchers	\$ 110.00
Merchandise Order - Forts Store	\$ 989.35
Web Payments Security - Transaction Fee	\$ 42.77
Welcome To Country - WAFL Match	\$ 500.00
Casual Staff/Apprentice Fees	\$ 2,538.88
Material Supply - Sand	\$ 144.16
Material Supply - Pressure Cleaner	\$ 917.84
Kidsport Vouchers	\$ 1,040.00
Security Services - C15016	\$ 2,995.39
Kidsport Vouchers	\$ 325.05
Advanced Tree Maintenance - Q17012	\$ 5,920.00
Material Supply - Stainless Steel	\$ 390.50
Events Stand By - WAFL Match	\$ 577.50
Turf Supply And Installation - Stadium Verge	\$ 2,145.00
Catering - BFF Training	\$ 377.00
Key Upgrades - C14003	\$ 1,022.50
Electricity Charges	\$ 61,780.15
Hardware And Tool Supplies - Various	\$ 1,555.11
Consultancy Services - Landfill And Environmental Reports	\$ 27,833.21
Material Supply - Comms Unit	\$ 1,628.48
Merchandise Order - Forts Store	\$ 619.81
Material Supply - Filter	\$ 48.63
Material Supply - Shade Cloth	\$ 671.00
Musical Performance - Youth Event	\$ 70.00
Merchandise Order - Forts Store	\$ 301.00
Repairs And Maintenance - Town Hall And UWA Clocks	\$ 1,500.00
Advertising - Community Information Pages	\$ 1,634.05
Material Supply - Oil	\$ 1,041.41
Council Training - Financial Reports And Budgets	\$ 650.00
Material Supply - Fertiliser	\$ 378.29
Advertising - April 2018	\$ 8,525.84
Refund	\$ 44.60
Groceries - Daycare	\$ 1,821.88
Merchandise Order - Forts Store	\$ 200.20
Laundry Services/Hire	\$ 25.87
Payroll Deductions	\$ 74,521.18
Payroll Deductions	\$ 1,413.45

DD26014.3	24/04/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER	Superannuation Contributions	\$ 1.004.89
DD26014.4	24/04/2018 AUSTRALIAN SUPER	Payroll Deductions	\$ 9.497.84
DD26014.5	24/04/2018 HOSTPLUS PTY LTD	Superannuation Contributions	\$ 1.798.53
DD26014.6	24/04/2018 COLONIAL FIRST STATE WHOLESALE PERSONAL SUPER	Superannuation Contributions	\$ 476.30
DD26014.7	24/04/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 152.47
DD26014.8	24/04/2018 DESMO SUPERANNUATION FUND	Superannuation Contributions	\$ 532.55
DD26014.9	24/04/2018 CBUS	Superannuation Contributions	\$ 634.24
DD26021.1	24/04/2018 MI C MASTERKEY SUPERANNUATION	Superannuation Contributions	\$ 79.37
DD26022.1	24/04/2018 WA SUPER	Superannuation Contributions	\$ 371.37
DD26014.10	24/04/2018 AMP SUPERANNUATION SAVINGS	Pavroll Deductions	\$ 1.790.59
DD26014.11	24/04/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 628.71
DD26014.12	24/04/2018 QSUPER	Superannuation Contributions	\$ 659.89
DD26014.13	24/04/2018 REST SUPERANNUATION	Pavroll Deductions	\$ 1.810.87
DD26014.14	24/04/2018 HESTA SUPER FUND	Superannuation Contributions	\$ 1.402.20
DD26014.15	24/04/2018 TAL SUPERANNUATION LIMITED	Superannuation Contributions	\$ 224.77
DD26014.16	24/04/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION	Superannuation Contributions	\$ 47.78
DD26014.17	24/04/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION	Superannuation Contributions	\$ 30.18
DD26014 18	24/04/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 316.37
DD26014 19	24/04/2018 NATIONAL MUTUAL RETIREMENT FUND	Superannuation Contributions	\$ 126.47
DD26014 20	24/04/2018 PRIME SUPER	Superannuation Contributions	\$ 940.95
DD26014 21	24/04/2018 MLC MASTERKEY BUSINESS SUPER	Superannuation Contributions	\$ 941 35
DD26014.21	24/04/2018 OAK TREE SUPERANNUATION FUND	Superannuation Contributions	\$ 223.84
DD26014.22	24/04/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 160.06
DD26014.20	24/04/2018 FIRST SUPER	Superannuation Contributions	\$ 198.46
DD26014.24	24/04/2018 CARE SUPER PTY I TD	Superannuation Contributions	\$ 395.36
DD26014.26	24/04/2018 AMG SUPER	Superannuation Contributions	\$ 475 57
DD26014.20	24/04/2018 SPECTRUM SUPER	Superannuation Contributions	\$ 353.01
DD26014.27	24/04/2018 SUPERWRAP PERSONAL SUPER PLAN	Superannuation Contributions	\$ 260.83
DD26014.20	24/04/2018 WEALTH PERSONAL SUPERANNI JATION AND PENSION FUND	Payroll Deductions	\$ 1 352 94
DD26014.20	24/04/2018 NORTH PERSONAL SUPERANNUATION & PENSION FUND	Superannuation Contributions	\$ 208.58
DD26014.30		Superannuation Contributions	\$ 262.56
DD26014.31	24/04/2018 AUSTRALIAN CATHOLIC SUPERANNUATION AND RETIREMENT FUND	Superannuation Contributions	\$ 246.96
DD26014.32	24/04/2018 SUNSUPER SUPERANNUATION	Superannuation Contributions	\$ 507 82
DD26014.30	24/04/2018 MTAA SUPERANNI JATION FUND	Superannuation Contributions	\$ 242.49
DD26014.35		Superannuation Contributions	\$ 347 44
DD26014.36	24/04/2018 FIRST STATE SUPER	Superannuation Contributions	\$ 201 08
DD26014.30	24/04/2018 RUSSELL SUPERSOLUTION MASTER TRUST	Superannuation Contributions	\$ 202.04
DD26014.38	24/04/2018 ASGARD	Superannuation Contributions	\$ 105.40
DD26014.30	24/04/2018 ONEPATH MASTERELIND	Superannuation Contributions	\$ 225.95
DD26014.00	24/04/2018 MI C MASTERKEY SUPERANNUATION	Superannuation Contributions	\$ 729.94
DD26014.40	24/04/2018 THE LINIVERSAL SUPER SCHEME	Superannuation Contributions	\$ 200.56
DD26014.41	24/04/2018 AMP SUPERANNI ATION SAVINGS	Superannuation Contributions	\$ 67.61
DD26014.42	24/04/2018 TTCSLATE CRUELTY FREE SUPER	Superannuation Contributions	\$ 114.72
DD26014.43	24/04/2018 MACALILAY SUPER FUND	Superannuation Contributions	\$ 222.03
DD26014.44	24/04/2018 ANZ SMART CHOICE SUPER	Superannuation Contributions	¢ 222.00 \$ 83.11
DD26014.46		Superannuation Contributions	\$ 00.11 \$ 157.53
DD26014.40	24/04/2018 AUSTRALIAN ETHICAL SUPERANNUATION FUND	Superannuation Contributions	\$ 227.04
DD26014.48	24/04/2018 COLONIAL SUPER RETIREMENT FUND	Superannuation Contributions	\$ 185.80
DD26014.40	24/04/2018 BT SUPER	Superannuation Contributions	φ 100.09 \$ 221.24
DD26014.50	24/04/2018 BT SUPER FOR LIFE	Superannuation Contributions	φ 221.24 \$ 222 Q
DD26014.50		Superannuation Contributions	ψ 222.95 \$ 226.51
DD26014.51	24/04/2018 BT SUPER FOR LIFE	Superannuation Contributions	φ 220.31 \$ 203.36
2220014.02			ψ 235.50

DD26014.53	24/04/2018 IOOF INVESTMENT MANAGEMENT LTD	Superannuation Contributions	\$ 209.47
DD26014.54	24/04/2018 NORTH	Superannuation Contributions	\$ 54.02
DD26014.55	24/04/2018 COLONIAL FIRST STATE WHOLESALE SUPER FUND	Superannuation Contributions	\$ 83.74
DD26014.56	24/04/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 98.12
DD26014.57	24/04/2018 IOOF GLOBAL ONE	Superannuation Contributions	\$ 200.97
DD26014.58	24/04/2018 AMP SUPERANNUATION SAVINGS TRUST	Superannuation Contributions	\$ 115.75
DD26014.59	24/04/2018 ONEPATH LIFE LIMITED	Superannuation Contributions	\$ 197.63
DD26014.60	24/04/2018 MEDIA SUPER	Superannuation Contributions	\$ 120.64
DD26014.61	24/04/2018 BT BUSINESS SUPER	Superannuation Contributions	\$ 224.56
DD26014.62	24/04/2018 AMP SUPERANNUATION SAVINGS	Superannuation Contributions	\$ 638.56
DD26014.63	24/04/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION FUND	Superannuation Contributions	\$ 279.30
DD26014.64	24/04/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER	Superannuation Contributions	\$ 1,105.14
DD26014.65	24/04/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION	Payroll Deductions	\$ 224.85
DD26060.1	08/05/2018 WA SUPER	Payroll Deductions	\$ 73,278.39
DD26060.2	08/05/2018 ASGARD	Payroll Deductions	\$ 1,377.75
DD26060.3	08/05/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER	Superannuation Contributions	\$ 977.13
DD26060.4	08/05/2018 AUSTRALIAN SUPER	Payroll Deductions	\$ 9,811.23
DD26060.5	08/05/2018 HOSTPLUS PTY LTD	Superannuation Contributions	\$ 1,940.69
DD26060.6	08/05/2018 COLONIAL FIRST STATE WHOLESALE PERSONAL SUPER	Superannuation Contributions	\$ 601.23
DD26060.7	08/05/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 152.47
DD26060.8	08/05/2018 DESMO SUPERANNUATION FUND	Superannuation Contributions	\$ 569.23
DD26060.9	08/05/2018 CBUS	Superannuation Contributions	\$ 601.49
DD26060.10	08/05/2018 AMP SUPERANNUATION SAVINGS	Payroll Deductions	\$ 1,717.52
DD26060.11	08/05/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 628.71
DD26060.12	08/05/2018 AUSTRALIAN CATHOLIC SUPERANNUATION AND RETIREMENT FUND	Superannuation Contributions	\$ 499.02
DD26060.13	08/05/2018 QSUPER	Superannuation Contributions	\$ 659.89
DD26060.14	08/05/2018 REST SUPERANNUATION	Payroll Deductions	\$ 1,652.47
DD26060.15	08/05/2018 HESTA SUPER FUND	Superannuation Contributions	\$ 1,293.25
DD26060.16	08/05/2018 TAL SUPERANNUATION LIMITED	Superannuation Contributions	\$ 224.77
DD26060.17	08/05/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION	Superannuation Contributions	\$ 17.75
DD26060.18	08/05/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 316.37
DD26060.19	08/05/2018 NATIONAL MUTUAL RETIREMENT FUND	Superannuation Contributions	\$ 126.47
DD26060.20	08/05/2018 MLC MASTERKEY BUSINESS SUPER	Superannuation Contributions	\$ 941.35
DD26060.21	08/05/2018 PRIME SUPER	Superannuation Contributions	\$ 967.36
DD26060.22	08/05/2018 OAK TREE SUPERANNUATION FUND	Superannuation Contributions	\$ 223.84
DD26060.23	08/05/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 180.57
DD26060.24	08/05/2018 FIRST SUPER	Superannuation Contributions	\$ 196.55
DD26060.25	08/05/2018 CARE SUPER PTY LTD	Superannuation Contributions	\$ 395.35
DD26060.26	08/05/2018 AMG SUPER	Superannuation Contributions	\$ 431.77
DD26060.27	08/05/2018 SPECTRUM SUPER	Superannuation Contributions	\$ 353.01
DD26060.28	08/05/2018 SUPERWRAP PERSONAL SUPER PLAN	Superannuation Contributions	\$ 249.03
DD26060.29	08/05/2018 NORTH PERSONAL SUPERANNUATION & PENSION FUND	Superannuation Contributions	\$ 208.58
DD26060.30	08/05/2018 WEALTH PERSONAL SUPERANNUATION AND PENSION FUND	Payroll Deductions	\$ 1,351.63
DD26060.31	08/05/2018 AJW SUPERANNUATION FUND	Superannuation Contributions	\$ 262.56
DD26060.32	08/05/2018 SUNSUPER SUPERANNUATION	Superannuation Contributions	\$ 503.54
DD26060.33	08/05/2018 MTAA SUPERANNUATION FUND	Superannuation Contributions	\$ 242.49
DD26060.34	08/05/2018 IOOF EMPLOYEE SUPER	Superannuation Contributions	\$ 338.18
DD26060.35	08/05/2018 FIRST STATE SUPER	Superannuation Contributions	\$ 176.08
DD26060.36	08/05/2018 RUSSELL SUPERSOLUTION MASTER TRUST	Superannuation Contributions	\$ 202.04
DD26060.37	08/05/2018 ASGARD	Superannuation Contributions	\$ 84.32
DD26060.38	08/05/2018 ONEPATH MASTERFUND	Superannuation Contributions	\$ 272.89
DD26060.39	08/05/2018 MLC MASTERKEY SUPERANNUATION	Superannuation Contributions	\$ 770.63

DD26060.40	08/05/2018 THE UNIVERSAL SUPER SCHEME	Superannuation Contributions	\$ 200.56
DD26060.41	08/05/2018 AMP SUPERANNUATION SAVINGS	Superannuation Contributions	\$ 67.61
DD26060.42	08/05/2018 TTCSL ATF CRUELTY FREE SUPER	Superannuation Contributions	\$ 56.64
DD26060.43	08/05/2018 MACAULAY SUPER FUND	Superannuation Contributions	\$ 222.93
DD26060.44	08/05/2018 ANZ SMART CHOICE SUPER	Superannuation Contributions	\$ 83.11
DD26060.45	08/05/2018 FUTURE SUPER	Superannuation Contributions	\$ 157.53
DD26060.46	08/05/2018 COLONIAL SUPER RETIREMENT FUND	Superannuation Contributions	\$ 185.89
DD26060.47	08/05/2018 BT SUPER	Superannuation Contributions	\$ 181.23
DD26060.48	08/05/2018 AUSTRALIAN ETHICAL SUPERANNUATION FUND	Superannuation Contributions	\$ 227.04
DD26060.49	08/05/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 222.93
DD26060.50	08/05/2018 MACQUARIE SUPER CONSOLIDATOR	Superannuation Contributions	\$ 226.51
DD26060.51	08/05/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 293.36
DD26060.52	08/05/2018 IOOF INVESTMENT MANAGEMENT LTD	Superannuation Contributions	\$ 215.82
DD26060.53	08/05/2018 COLONIAL FIRST STATE WHOLESALE SUPER FUND	Superannuation Contributions	\$ 188.41
DD26060.54	08/05/2018 BT SUPER FOR LIFE	Superannuation Contributions	\$ 116.81
DD26060.55	08/05/2018 AMP SUPERANNUATION SAVINGS TRUST	Superannuation Contributions	\$ 115.75
DD26060.56	08/05/2018 ONEPATH LIFE LIMITED	Superannuation Contributions	\$ 197.64
DD26060.57	08/05/2018 IOOF GLOBAL ONE	Superannuation Contributions	\$ 200.97
DD26060.58	08/05/2018 MEDIA SUPER	Superannuation Contributions	\$ 124.02
DD26060.59	08/05/2018 ADONT SUPERANNUATION	Superannuation Contributions	\$ 85.67
DD26060.60	08/05/2018 BT BUSINESS SUPER	Superannuation Contributions	\$ 224.56
DD26060.61	08/05/2018 AMP SUPERANNUATION SAVINGS	Superannuation Contributions	\$ 644.54
DD26060.62	08/05/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION FUND	Superannuation Contributions	\$ 279.30
DD26060.63	08/05/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER	Superannuation Contributions	\$ 637.50
DD26060.64	08/05/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION	Payroll Deductions	\$ 224.85

EDR1880091 ITEM: N/A 16/04/2018 RE: EXPLANATORY MEMO TO PARLIAMENTARY COMMITTEE LOCAL RE WAST LOCAL LAW PARTIES: N/A SIGNED BY: CEO ANDREW SHARPE AND MAYOR DENNIS WELLINGTON (1 COPY) EDR1880206 COPY OF EXECUTED DOCUMENT 18/04/2018 ITEM: OCM 18/09/2012 ITEM 1.1 RE ANNUAL ENVIRONMENTAL REPORT FOR SOUTH STIRLING TRANSFER STATION PARTIES: EDR1880409 COPY OF EXECUTED DOCUMENT 23/04/2018 ITEM: OCM 18/09/2012 ITEM 1.1 RE RE: ANNUAL ENVIRONMENTAL RE/ORT 23/04/2018 TRANSFER STATION PARTIES: ALBANY FIRCING 23/04/2018 EDR1880409 COPY OF EXECUTED DOCUMENT 23/04/2018 23/04/2018 ITEM: NCR SUBCORY AND RECING PARTIES: PARLIEN ALBANY FENCING PARTIES: ALBANY FENCING PARTIES: VOTACTORS AND GREAT SUTHERN BOUNDARIES SIGNED BY THE CEO A SHARPE 2 COPIES EDR1880539 COPY OF EXECUTED DOCUMENT TEM: N/A RE: APARTIES: N/A SIGNED BY	Document Number	Description	Date Sent / Received
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FORM FOR SETBACK RELAXATION			
		FORM FOR SETBACK RELAXATION	

Document Number	Description	Date Sent / Received
	FOR RETAINING WALL ON BOUNDARY ON LOT 7 GIFFORD STREET PARTIES: N/A SIGNED BY THE CEO A SHARPE 1	
	COPY	
EDR1881008	COPY OF EXECUTED DOCUMENT ITEM: N/A RE DECLARATION OF DANGEROUS DOG IN ACCORDANCE WITH SECTION 33F OF THE DOG ACT 1976 PARTIES: H PERRY SIGNED BY THE CEO A SHARPE 1 COPY	08/05/2018
EDR1881010	COPY OF EXECUTED DOCUMENT ITEM: N/A RE: DECLARATION OF DANGEROUS DOG UNDER IN ACCORDANCE WITH SECTION 33F OF THE DOG ACT 1976 PARTIES: J MAIN SIGNED BY THE CEO A SHARPE 1 COPY	08/05/2018
EDR1881016	COPY OF EXECUTED DOCUMENT ITEM: OCM 24.04.2018 ITEM: DIS087 RE: EHO POSITION REQUIRED TO BACKFILL FOR SERVICES PROVIDED TO THREE REGIONAL SHIRES - FULL COST RECOVERY PARTIES: SHIRES OF JERRAMUNGUP, PLANTAGENET AND RAVENSTHORPE SIGNED BY THE CEO A SHARPE 1 COPY	08/05/2018
EDR1881190	ITEM: N/A RE: SIGNATURE REQUIRED ON DEVELOPMENT APPLICATION FOR TRANSWA TICKET OFFICE AND COACH STOP PARTIES: PUBLIC TRANSPORT AUTHORITY WA SIGNED BY: CEO ANDREW SHARPE (1 COPY)	14/05/2018
NCSR1880224	COPY OF COMMON SEAL ITEM: CCS028 OCM 23/05/2018 RE: NEW LICENCE TO ALLOW CITY RANGERS AND EMERGENCY MANAGEMENT TEAMS TO OCCUPY SPACE IN THE ALBANY AGRICULTURAL SOCIETY PARTIES: ALBANY AGRICULTURAL SOCIETY INC SIGNED BY: CEO ANDREW SHARPE MAYOR DENNIS WELLINGTON (3 COPIES)	18/04/2018
NCSR1880359	COPY OF COMMON SEAL	23/04/2018

Document Number	Description	Date Sent / Received
	ITEM: ORDINARY COUNCIL MEETING	
	23/05/2017 CCCS028	
	RE: REGIONAL DEVELOPMENT	
	AUSTRALIA GREAT SOUTHERN WA	
	LEASE OVER THE CO-OP BUILDING	
	ON CROWN RESERVE 42401	
	PARTIES: REGIONAL DEVELOPMENT	
	AUSTRALIA	
	SIGNED BY: CEO ANDREW SHARPE	
	AND MAYOR DENNIS WELLINGTON (3	
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NCSR1880503	COPY OF COMMON SEAL	24/04/2018
	ITEM:	
	RE: NOTATION ON TITLE TO INFORM	
	OWNERS OF CONDITION REGARDING	
	PLUMING FOR LOT 5 WRIGHT STREET	
	PARTIES: TRACEY MARIE LATHAM	
	SIGNED BY BY: CEU ANDREW	
	SHARPE AND MAYOR DEININIS	
		24/04/2019
NCSR 1880505	ITEM: OCM 10/12/2017 DIS072	24/04/2018
	STAGE 1	
	DADTIES TRICOAST HOLDINGS DTV	
	TO TRADING AS TRICOAST CIVIL	
	SIGNED BY: CEO ANDREW SHARPE	
	AND MAYOR DENNIS WELLINGTON (2	
	COPIES)	
NCSR1880507	COPY OF COMMON SEAL	24/04/2018
	ITEM: N/A	• • . •
	RE: DEED OF ASSIGNMENT OF LEASE	
	FOR AIRPORT HANGER 9 ALBANY	
	REGIONAL AIRPORT	
	PARTIES: BERNHARD PETER	
	LULLFITZ AND NOEL HENRY	
	ARMSTRONG STONEY AND ROBY	
	LOUISE STONEY	
	SIGNED BY: CEO ANDREW SHARPE	
	AND MAYOR DENNIS WELLINGTON (3	
	COPIES)	
NCSR1880670	COPY OF COMMON SEAL	30/04/2018
	ITEM: N/A	
	RE: LACK OF SEWER ADVICE.	
	BUSHFIRE FLAME ZONE RATING AND	
	SUBDIVISION APPROVAL WAPC	
	PARTIES. RUDERIUR SAWYER AND	
	NUSALIND SAWTER	

SIGNED BY: CEO ANDREW SHARPE AND MAYOR DENNIS WELLINGTON (1 COPY) NCSR1880866 COPY OF COMMON SEAL 04/05/2018 ITEM: N/A RE: MEMORANDUM OF UNDERSTANDING FUTURE EASEMENT TO BENEFIT COA TO BE MIMPLEMENTED IN SUBDIVISIONS IN KALGAN RURAL VILLAGE PARTIES: HUIT PTY LTD, BL FULLER, A TRIPLETT, T & R PATERSON, R, H & J FRY SIGNED BY THE CEO A SHARPE AND MAYOR DVELINGTON 1 COPY 08/05/2018 NCSR1881024 COPY OF COMMON SEAL 08/05/2018 ITEM: OCM 23/05/2017 CCS028 08/05/2018 RE: CONTRACTS FOR C 18007 PROVISION OF CAR PARKS, PATHWAYS AND BOARDWALK SWEEPING PARTIES: ALBANY SWEEP CLEAN SIGNED BY: CEO ANDREW SHARPE AND MAYOR DENNIS WELLINGTON (2 COPIES) 08/05/2018 NCSR1881026 COPY OF COMMON SEAL 08/05/2018 NCSR1881026 COPY OF COMMON SEAL 08/05/2018 NCSR1881026 COPY OF COMMON SEAL 08/05/2018 NCSR1881224 COPY OF COMMON SEAL 15/05/2018 NCSR1881235 COPY OF COMMON SEAL 15/05/2018 ND	Document Number	Description	Date Sent / Received
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HONORARY FREEMAN OF THE CITY OF ALBANY

Objective

The objective of this policy is to establish the circumstances under which the City of Albany Council may bestow the title of "Honorary Freeman of the City of Albany" upon individuals who have made an outstanding and exceptional contribution to our community.

Policy Statements

From time to time members of the Albany community demonstrate outstanding commitment and contribution to our community and it is recognised that this contribution should be acknowledged.

The Council will do this by, in special circumstances that meet the criteria of this policy, awarding to an individual the title of "Honorary Freeman of the City of Albany".

The title of Honorary Freeman is the most prestigious form of honour or recognition that can be conferred by the Council. This honour will therefore be conferred only in rare and exceptional circumstances to maintain both the significance and prestige of the title.

A. Service:

The nominee must have given extensive and distinguished service to our community that goes beyond local government (e.g. service to other organisations, voluntary and community groups) in largely voluntary capacity.

The nominee nominee's contribution should be seen to stand above the contributions made by most other people.

Bestowing the title of Honorary Freeman of the City will only be by an <u>absolute majority</u> decision of the Council and in accordance with this policy.

B. Nomination Criteria

The following criteria shall be taken into account when consideration is being given to the conferring of the title of Honorary Freeman of the City of Albany:

- the nominee's exceptional service must be recognised as a matter of public record;
- the nominee must have lived in, worked or served the City of Albany for a significant number of years (e.g. 20 years or more);
- the nominee must have identifiable and long-standing connections with the community;
- the nominee must have provided long and distinguished service to the local community;
- the nominee's endeavours must have clearly benefited the Albany Community;
- the nominee must have demonstrated both outstanding leadership and personal integrity;
- it shall not be restricted to past Council Members or City of Albany employees;
- preference shall be given to a person who performs in a voluntary capacity, but this should not preclude the honour being awarded to a person whose dedication and contribution is significantly above that expected from their occupation;

- the contribution to the welfare of the community must involve one or more of the following factors:
 - significant contribution of the nominee's time in serving members of the Community for the improvement of their welfare;
 - the promotion, achievement and/or delivery of community services in which a real personal role and contribution is made;
 - whilst difficult to define, the contribution must be outstanding in that it can be seen to stand above the contributions of most other persons; and
 - the title shall not be bestowed on anyone who is holding the office of Council Member of the City of Albany.

C. Nomination Procedure

- A nomination may be submitted at any time provided that the nomination is in writing and clearly addresses the nomination criteria.
- The nomination most clearly outline the history of the nominee in chronological order, outlining their history of the community service.
- Nominations must be made in the strictest confidence without the nominee's knowledge.
- A nomination must be sponsored by a Council Member and supported in writing by at least four other Council Members.
- Nominations are to be submitted to the Chief Executive Officer.
- The Chief Executive Officer will submit a confidential report to a Special and/or Ordinary Council Meeting with details of the nomination.
- The Agenda for the Council Meeting shall be delivered at least two weeks prior to the meeting date to all Council Members.
- If a Council Member expresses an objection to the nomination, that Council Member must give their reasons for the objection in writing to the Chief Executive Officer, at least one week before the Council Meeting. The Chief Executive Officer shall submit all objections (together with any other relevant information) to the Council Meeting.
- No record of the nominee's name shall be contained in the Agenda for the meeting, however, if the nominee is appointed as Freeman, their name shall be recorded in the minutes of the meeting.
- In the event Council approves the nomination, it shall be by an <u>absolute majority</u> decision.
- Prior to any announcement, the Chief Executive Officer shall make personal contact with the nominee to confirm their acceptance of the honour.
D. Entitlements

Any person declared an Honorary Freeman of the City of Albany:

- may designate themselves as a "Honorary Freeman of the City of Albany";
- will be invited to all civic events and functions and be acknowledged as a dignitary;
- will have their photograph hung in the City's Council Chambers;
- will be provided with a plaque to commemorate receipt of their Award; and
- will be conferred at an appropriate civic ceremony for the purpose hosted by the City of Albany.

E. Limitations on Holders of the Award

At any one time, a maximum of <u>four living persons</u> only, unless otherwise decided by an Absolute Majority decision of the Council, may hold the title "Freeman of the City of Albany".

For avoidance of doubt, the honour shall not be awarded posthumously.

F. Personal Conduct

A person who has been conferred with the honour of "Honorary Freeman of the City of Albany" shall display high standards of personal conduct and behaviour at all times and shall not bring the City of Albany into disrepute.

The Council reserves the right to cancel the honour, in the event that the holder is convicted of a serious criminal offense or brings the City into disrepute. (Any such decision shall be by an absolute majority decision).

Scope

Defined in the policy statement.

Strategic Context

The Strategic context (Community Strategic Plan): "Recognition of people who demonstrate pride in our community and promote the place we call home."

Review Position and Date

This policy must be reviewed every two years after a general Local Government election, or earlier if Council considers it necessary.

Associated Documents

Nil

Document	Approval				
Document Development Officer:		Document Owner:			
Manager Governance & Risk (MGR)		MGR)	Chief Executive Officer (CEO) Executive Director Corporate Services		
Document	Control				
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REPORT ITEM DIS 099 REFERS





Infrastructure and Environment

City of Albany Policy

Upgrades and Maintenance of Watercourses and Drainage Channels

Documer	nt Approval				
Document Development Officer:		Document Owner: (Member of EMT)			
Senior Civil Engineering (Officer	Executive Member Position	n Title	
Documer	nt Control				
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	Officer	Team.			

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Objective

To define Council's obligations and policy regarding the maintenance, improvements and rehabilitation of watercourses including Drainage Reserves and Channels.

This policy recognises that watercourses and drainage channels and their associated vegetation should be left in as undisturbed a state as possible unless extraordinary circumstances apply. Notwithstanding this, Council recognises that there are instances in which the condition of watercourses may deteriorate as a result of erosion and/or sedimentation, overgrowth with weeds or dumping or accumulation of rubbish. In such cases, where there is an identifiable public interest it is recognised that maintenance and/or rehabilitation of these waterways may be required.

Policy Statements:

A. Drainage Easements (Benefiting Council):

Maintenance – Council may be responsible for the maintenance of its structures within private property where Council has acquired a drainage easement on such property.

Improvements – All requests for improvements in Council drainage easements within private property are to be received and assessed as to whether the work is of net benefit to the community and the environment and prioritised according to budget constraints. If landholder benefits from works, landholder may be required to contribute to costs apportioned to the estimated benefit.

If the work is required to facilitate the development of the land, then the works, if approved, will be at the owner's full cost.

B. Natural Watercourses within Private Land:

• **Maintenance** – Property owners are responsible for maintaining watercourses within private property including watercourses that have been altered from their natural state, through realignment, channel enlargement, filling and the like.

Property owners are responsible for maintenance of watercourses within their property. However, such activities should occur with care and consideration of the physical and ecological integrity of the watercourse and in accordance with relevant environmental legislation and guidelines.

In general, only minor maintenance activities are permitted. Activities that include the destruction and removal of native vegetation and the modification of watercourses will require an approval from Council. Other permits may also be required to comply with State Legislation.

Major maintenance work that is excavation, filling, diversion, scour protection, improvements and similar work, will require development consent including the necessary approvals from state government authorities.

• Improvement and Rehabilitation – Owners wishing to make improvements or to rehabilitate watercourses in private property are responsible for arranging and carrying out the work at their own cost.

The owner will need to obtain development consent from Council, including the necessary approvals from state government authorities.

Council may determine that an easement in favour of Council should be created over the improved watercourse in order to ensure drainage of a public road, in which case granting of the easement should be at no cost to Council.

C. Floodplains

 Council identifies floodplains as natural seasonal wetland systems and will not provide drainage structures or maintenance to privately owned drainage structures within private owned lands.

D. Watercourses and all drain types (if work approved by Council) within Public Reserves, Drainage Reserves, Public Road Reserves or Council owned land:

- Maintenance Council is responsible for maintenance of watercourses and drainage channels in council-managed public land. Works will be conducted in accordance with conditions stipulated in any relevant environmental assessment or permit.
- Improvements and Rehabilitation All requests for improvements and rehabilitation will be assessed to determine necessity, suitability and potential environmental impacts before being prioritised according to budget constraints, cost-benefit analysis and considered for allocations of funds in Council's Works Programs.

E. Inter-allotment Drainage Easements (Benefiting private property owners)

• **Maintenance, Improvements and Rehabilitation**: All works to drains in interallotment drainage easements within private property are the responsibility of property owners and users of the easement. These drains are 'private' drains and do not belong to Council.

F. Unapproved Drainage Works on Council Land.

• Property owners are required to accept natural flows from adjoining properties and control and dispose of flows properly. If unapproved drainage works are carried out on Council land, Council may remove the works and recover costs from the owner that carried out the work.

G. Unapproved Drainage Works on Private Land.

- If unapproved drainage is carried out on private land, Council can require the owner to remove the works at the owner's expense (1).
- Maintenance where existing unapproved drainage infrastructure is located on private owned land, Council will not maintain the infrastructure.

H. City of Albany right to undertake works

- Whilst this policy outlines limits of responsibilities in maintaining watercourses and drainage channels in private land, it does not extinguish the right of the City to undertake works in these areas if the City believes there is a defined community good.
- This right is legislated in the Local Government Act 1995, Section 3.27 which confers rights on the City to undertake things on land that is not local government property as prescribed in Schedule 3.2.
- Schedule 3.2 Particular things local governments can do on land even though it is not local government Section 3.727(1) states the City can:
 - Carry out works for the drainage of land.
 - $\circ\,$ Do earthworks or other works on land for the prevention or reducing flooding.

Scope

This policy applies to all City of Albany ratepayers, land managers, elected members, managers, employees, volunteers, responsible officers, contractors and subcontractors.

Related Legislation:	(Legislation Name)	(Relationship/Context)
	Main Roads Act 1993 – Section	out drainage works
	Water Management Act 2000	To provide for the sustainable and integrated management of the water sources of the State for the benefit of both present and future generations
	Rights in Water Irrigation Act 1914	Governs the management of water in western Australia and defines a watercourse to mean stream, creek, brook or river through which water flows.
	Local Government Act 1995 – Schedule 3.2	Schedule 3.2 – Particular things local government can do on land even though it is not local government property
Related Policies	(Policy Name)	(Relationship/Context)
(Council & Internal):	Storm water management Strategy	Provides the direction to Council with sound objective criteria that sets to guide local Government decision making underpinned by robust analysis to deliver stormwater planning and investment.

Legislative and Strategic Context

Review Position and Date

This policy and procedure is to be reviewed by the document owner every three years.

Associated Documents

- Stormwater Management Strategy
- Asset Management Plan –Part 3 Stormwater
- Planning and Development Act 2005, Sect.214

Definitions

Key terms and acronyms used in the policy, and their definitions:

Term / Abbreviation	Definition
Drainage Easement	A legal restriction on the property title legally allowing drainage through land and defining the properties or parties burdened and benefiting from the drainage
Drainage Reserve	A separate strip of land containing a drain, designated Drainage Reserve and owned by Council.
Watercourse	A stream of water whether perennial or intermittent, flowing in a depression of a natural channel or a natural channel artificially improved or in an artificial channel, which has changed the course of the stream.

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	Floodplains are broad areas of low flat land adjacent to the main floodway (flow path) of a river or creek. These area can
Fioodplain	become swampy and inundated through seasonal groundwater rise or by rain or stormwater inflow.





FOREWORD

Albany has an urban drainage system that collects and conveys stormwater to outfall expediently and safely with minimal disturbance. We manage the network for the safety of our community whilst aiming to minimise damage to property, infrastructure and the natural environment.

Where rainfall exceeds soil storage and evaporation, gravity draws excess water downhill where it accumulates into ever increasing volumes that we see as seeps, flows in gutters and streams that grow into rivers draining the rainfall from the land back to the ocean.

This process is governed by nature, and as such the receiving and passage of stormwater across the land is the responsibility of the landowner. Where stormwater flows across lands managed by the City, the City manages this flow to the benefit of the community.

This Strategy describes the parameters and policy settings that the City seeks to adopt in its management of stormwater across City of Albany controlled lands.

The Strategy is an overarching document that forms the first part of three distinct stormwater plans.

Strategy – sets out policy

and best practice settings

for managing stormwater

and sets priorities for modelling and evaluating

investment in system

the existing system,

improvements.



Albany Arterial Drainage Plan – is a process that numerically modelled the reticulated stormwater system using design rain storm events that seek to Strategy. This modelling evaluated and predicted deficiency against the Strategy settings and listed solutions that can be budgeted over time.

3.

Stormwater Asset Management Plan directs future spending Stormwater Strategy as

IF IT NEVER RAINS, THEN WE'LL NEVER GROW.

Anon

SUMMARY

The City of Albany Stormwater Management Strategy 2017 (the Strategy) provides an overarching direction for managing the conveyance of stormwater and floodwater to protect the social, economic and environmental assets within the community.

The purpose of the Strategy is to provide the City of Albany (the City) and its community with robust and objective criteria to guide local government decision making about stormwater planning and investment.

The Strategy is based on three foundation principles:

- Protect private and public infrastructure,
- Manage public safety,
- Protect environmental assets

STRATEGIC CONTEXT

The Strategy is a part of a broader policy and strategic planning framework developed by the City. Key drivers are the City's Community Strategic Plan to be a clean, green and sustainable Albany.

KEY DRIVERS CLEAN, GREEN AND SUSTAINABLE

INTRODUCTION

Albany is Western Australia's first European settlement and its extensive heritage infrastructure represents the historical growth of the City since its establishment.

Albany town site was developed over a number of decades when open drainage was accepted as suitable infrastructure. As community expectations change, some residential areas have been upgraded with kerb and pipe drainage systems. In many of these areas, the systems were sized for lower density housing but now have reduced capacity to effectively convey storm flows with increasing development.

As pipes reach the end of their service life, the City evaluates the need for resizing pipe systems to manage infill development, higher density housing and fully paved road infrastructure.

Current expectations from landowners living with open drains within the suburbs are that open drains should be retrofitted with pipes and roads kerbed. As infill drainage is expensive and not always necessary, not all areas will be upgraded in this way. Open swale drains will be maintained and upgraded with routine road renewal.

Historically, the City sought to discharge stormwater into waterways and estuaries (such as





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Yakamia Creek) and little provision was given to the detention (holding) or attenuation (slowing) of stormwater. Landowners seeking to reduce waterlogging by connecting property drainage to the road drainage networks have altered catchment hydrology and the storage capacities of catchments have less capacity to buffer major storms.

Surface topography may direct overland stormwater flows through private property, and landholders need an understanding that this is a natural consequence of water flowing downhill.

In some instances, it may be important to preserve these flow routes and inform future property owners by identification and formalisation. Where possible, roads are used as overland floodroutes however, not all water can be directed through City managed land.

Formalising of flood routes may take the form of caveats on title or planning conditions restricting development in floodways to protect infrastructure.





6



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and a fully modelled drainage network to identify areas that do not meet the Strategy's levels of service and set priorities to most effectively direct spending.

CHALLENGES



CHANGES IN MEAN RAINFALL

Stormwater is runoff generated after the soil becomes saturated or the rate of infiltration cannot meet the rate of rain falling. Accordingly, future changes to climate patterns and the associated altering of rainfall volume and intensities will affect stormwater runoff.

By 2070 a decrease of 5–20% mean rainfall is predicted depending on high or low greenhouse emission scenarios.

Natural climate variations combined with anthropogenic impacts on weather patterns will affect seasonal stormwater events. Winter and spring rainfall is likely to decrease, whereas changes in summer and autumn rainfall are less certain.



COMMUNITY EXPECTATION AND GOVERNANCE DECISION-MAKING CRITERIA

Albany town planning and urban expansion have shown consistent growth since the first civilian town plans and land allocations in 1832.

Through the decades, road and drainage design has migrated from open street drainage to pipe systems. To provide accessibly priced residential land, some suburban areas remain drained with unkerbed, open roadside swales.

Market demand for fully serviced urban development has resulted in revised developmental guidelines requiring developers to provide fully serviced lots in inner suburbs. Complementary demand for larger rural residential lots has also seen extensive development of areas that are partially serviced with open swale drains on rural and special residential designed layouts.

This diversity of older suburbs, new suburbs and rural-styled suburbs displaying different standards of development has fueled landowner sentiment that levels of local government service lack parity across the City's urban areas.

When a resident reports a drainage issue, all requests are received and responded to as a Customer Service Request. This will then usually result in an inspection of the complaint by a City Officer to



CHANGES IN DROUGHT AND EXTREME RAINFALL

Current models predict that potential evapotranspiration will increase over Western Australia. When these changes are combined with the projected declines in rainfall, an increase in aridity and drought occurrence is likely.

Climate projections show an increase in daily precipitation intensity over much of the state, except the far south-west and central parts. The number of dry days is expected to increase significantly everywhere. This suggests that future rainfall patterns for many areas will have longer dry spells interrupted by heavier precipitation events.

Increased intensity of extreme rainfall events is projected with high confidence.

ascertain the cause of the issue and to identify if any immediate remedial action is warranted.

Where a cause can be identified as being a City responsibility and an immediate solution is apparent, most often the issue is rectified under maintenance protocols.

Where an issue falls outside maintenance protocols, a future works design protocol is initiated that will identify the problem against the three stormwater guiding principles of this strategy and a fourth principle to determine the justification of ratepayer's investment. The fourth principle of 'Meets public good' tests the proposition that the works are a legitimate local government responsibility and parity and value to all ratepayers can be assured. The four principles are:

protect private and public infrastructure

- manage public safety
- protect environmental assets
- · meets the public good.

Where all these four principles are met, a future project is assigned. This process seeks to rank and budget a future project and where a project budget exceeds \$15,000, the project will be assigned as a 'Capital Works' to be prioritised and approved by Council in future budget years.







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FOR IRRIGATING SPORTS OVALS



RESPONDING TO THE CHALLENGES

The Strategy guides the City's responses to challenges based on three foundation principles.



INFRASTRUCTURE: To provide protection for infrastructure that may be damaged from floods or

conveyance of stormwater.

MANAGE PUBLIC SAFETY: To limit the risk of injury to residents from flow of water and inundation from stormwater drainage systems during flood events.

 \checkmark

2.

PROTECT INFRASTRUCTURE & MANAGE PUBLIC SAFETY

SYSTEM WEAKNESSES

To responsibly justify and plan future investment against identified issues, the City has undertaken hydrological modelling of the Albany drainage systems. This work is documented in 'Albany Arterial Drainage Modelling 2017'.

The modelling has identified 93 system weaknesses relating to stormwater flowing through private properties or presenting an overland flood route risk caused by the road overtopping in a minor rainfall storm event of up to a 5 year recurrence probability.

The modelling also identified 10 issues relating to risks of overland flood routes overtopping into private properties in a major event greater than a 5 year storm. These classes also demonstrate a safety and erosion risk of fast-flowing water on roads and drains

TABLE 1: POTENTIAL STORMWATER WEAKNESSES BY CLASS ACROSS LOCALITY

Locality	Class 1 Stormwater flow through private properties in minor event	Class 2 Overtopping road/ inundation risk to properties minor event	Class 3 Fast water flow and inundation risk to properties major event	Class 4 Fast and erosive water velocity major event	Remediation Concept estimate Class 5 cost estimate classification
Bayonet Head	1	6	3	1	\$219,800
Lakeside	11	17	4	0	\$2,488,300
Yakamia	13	21	0	1	\$1,829,600
Seppings	11	6	0	0	\$888,500
Lower King	3	4	3	0	\$673,100
Total all localities	39	54	10	2	\$6,099,300



ENVIRONMENTAL PROTECTION:

To maintain the natural flow of stormwater and floodwaters through the landscape and support the social and environmental services provided by local ecosystems.

The estimated to remediate these weaknesses is \$6.1 million (2017 - dollar value). This estimate does not include smaller stormwater drainage problems that occur as a result of overtopping trapped low points and road geometries. These works make up many requests each year, and are often funded as 'unscheduled works' because they usually do not exceed \$15,000.

These works are explained in the Stormwater Asset Management Plan - 2017 which is Part 3 of this Strategy.

Table 1 shows the number of issues modelled as potential weaknesses across listed localities. The Class 1-4, list the category of the issue and may be considered analogous to priorities of importance. The table also totals estimated cost of remedial projects associated with each locality.

OPPORTUNITIES FOR ATTENUATING STORMS

Undeveloped vegetated catchments have many surface attributes to slow the flow of runoff. Natural vegetation promotes infiltration and slows overland flow.

When rain falls on natural vegetation much of the rain is absorbed by roots, the humus layer or is transported and stored within the groundwater system. When a catchment is cleared and developed into impervious surfaces such as roads, carparks and buildings, without adequate structural controls the natural hydrology is altered. This often leads to more rainwater flowing as surface runoff into streams and harbours. Stormwater can flow at high velocities, collecting pollutants along the way and causing soil erosion.

As urban planning and residential design (R-Codes) have increased residential densities, stormwater design standards have developed to account for increases in potential runoff. Where older suburbs do not meet changing stormwater design criteria, there is a need to retrofit attenuation capacity into the stormwater network to regulate the flow and reduce downstream effects of storm runoff.

Attenuation seeks to reduce the severity of flooding. This is normally achieved by holding back fast-flowing water and releasing it at a controlled rate. Examples of attenuation structures are dams, ponds or dry basins.

ATTENUATION SEEKS TO REDUCE THE SEVERITY OF FLOODING.

The City has several projects implemented to attenuate water within Yakamia and Parker Brook (McKail) catchments. These attenuation structures often form part of public open space and water features increase passive recreation and environmental values to neighborhoods.

Retrofitting attenuation structures into established neighborhoods is difficult because these structures can occupy large areas. The City has successfully retrofitted engineering structures into existing parks and ponds such as Cull Lake. This has been achieved at relative low capital cost by transforming existing recreational water features into active attenuation structures.

The City has identified a number of largescale attenuation projects within undeveloped Crown land to implement in the future. These structures will double as developed reserves in areas that need increased recreational open space and also seek to improve water guality by bioremediation of stormwater pollutants using native wetland vegetation.

Smaller attenuation projects are planned to be retrofitted to older suburbs that seek to reduce severity of flooding and capture poor quality runoff from the light industrial areas.







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STORMWATER REUSE

Harvesting urban stormwater for safe reuse has many potential benefits. It can help to reduce the effect of urban development on water quality and stream flow, whilst helping to meet water conservation objectives.

Stormwater harvesting involves collecting runoff from drains or creeks and reusing of stormwater is increasingly seen as a potential option for meeting water demands and other environmental objectives.

Despite a consistent Mediterranean climate with an average annual rainfall of 930mm, water for irrigating of parks and gardens is currently fully exploited and the City needs to develop alternative water resources to meet future demands.

The City's Infrastructure and Environment directorate has been designing and implementing stormwater reuse projects throughout the central sporting and recreational areas of Middleton Beach and Albany foreshore open space areas. Large areas of grass and public gardens are now irrigated by water captured as stormwater flow from Yakamia Creek, Eyre Park, Mt Melville and Festing Street. At present, harvested stormwater is mainly used for irrigating of sporting grounds, public parks and golf courses.

To complement development of the Centennial Sporting precinct, the City Infrastructure and Environment directorate has designed and built stormwater systems that recharge natural spongelite aquifers located within the precinct whilst also providing wells to recover stormwater for irrigation of sporting fields. These initiatives reduce the amount of runoff discharging into Oyster Harbour, and seek to rest and recharge important aquifers whilst making use of opportunistic rainfall events, particularly through drier summer months when irrigation demand is highest.

THE CITY WILL NEED TO **DEVELOP ALTERNATIVE** WATER RESOURCES TO MEET FUTURE DEMANDS.

REUSING STORMWATER AND PUBLIC HEALTH CONSIDERATIONS

Currently, reusing stormwater for irrigation does not require external agency referral. Where the City is concerned about applying stormwater due to public health considerations, the City seeks advice from the Department of Health's Environmental Health Directorate.

Water Corporation manage gravity and pressure sewer services in Western Australia. When an incident such as power or system failure occurs, raw sewage can flow into stormwater systems and creeks.

When this occurs, Water Corporation have a legislative requirement to inform the City's Health Officers who in turn notify City irrigation technicians to cease stormwater harvesting until the spillage has been rectified.

ENVIRONMENT

OPPORTUNITIES TO IMPROVE WATER QUALITY AND ENVIRONMENTAL OUTCOMES

Stormwater is a valuable resource that has the potential to be more effectively managed in the City of Albany. Integrating the urban water cycle with the water supply, stormwater, groundwater management and environmental protection is more important in today's changing climate. Water sensitive urban design (WSUD) is a stormwater design philosophy that seeks to improve water quality whilst using that water to provide horticultural and environmental amenity without using scheme water. The City will support appropriately designed WSUD within new developments and subdivisions. The City has a program to design and implement WSUD drainage infrastructure upgrades designed to improve water quality, provide environmental outcomes and opportunities for passive recreation. These works will serve multiple objectives including stormwater attenuation to reduce the impacts of flooding to downstream catchments.

NODAL TREATMENT AND 'AT-SOURCE' TREATMENT

Nodal treatment describes a system of stormwater quality treatment that uses bio remediation (plants) to clean water and remove nutrients, provide habitat for animals and birds, and provide some attenuation from intense storms. Nodal treatment is an integration of pipe and pit streetscapes linked into larger recreational spaces that serve as stormwater treatment zones. This includes open streams, ponds and water features, sedge lands and open grassed spaces that may flood during intense storms.

An *at-source* treatment is a system that seeks to improve water quality at a street-capture level. The system uses capture pits and rain gardens that soak away water and irrigate tree plantings and ground vegetation. This system integrates efficiently with municipal carparks and is best suited in Albany to link to the pipe or open-channel drainage system because the town soils are shallow, often saturated and have lower infiltration capacity. At- source treatments need to be carefully designed and can require ongoing horticultural resourcing, therefore the whole-of-life cost needs to be considered before approval and implementation.

The City employs nodal and at-source WSUD where appropriate and has several large nodal treatment projects planned and ready to implement. Recent developers in Albany have attempted to import WSUD principles from the Perth region's Swan Coastal Plain without considerating the local topography, hydrology and geology. Future development should only be approved to allow for creation of integrated and interconnected open spaces where amenity and aesthetics have not been sacrificed for drainage function. This includes ensuring that any WSUD projects are suitable for shallow soils with high gradients (slopes). Current practice on the Swan Coastal Plain for at-source infiltration may not be suitable for Albany residential streetscapes given the soil is shallow with underlying clay, lateritic and granitic basement layers.

Whilst it is generally accepted to allow suitable infiltration higher in the landscape, it should be recognised that natural saturated soil profiles of pre-development conditions may not be suitable or desirable for residents who are seeking to reduce waterlogging by passing water on downslope.

Whilst the City supports carefully designed WSUD projects, this strategy recommends implementing WSUD in nodes that would be better suited to soil infiltration and saturation. At-source WSUD can be used where careful planning and appropriate design to reduce horticultural inputs can be maintained.

The design of new stormwater and drainage systems will reduce water use, create more public open space, ecological corridors, and better drainage management by reducing nutrient issues and restore the natural flow regimes.

A major challenge faced by the City is the prevalence of high groundwater levels. This requires a comprehensive drainage systems that can limit WSUD and environmental objectives for water quality can be difficult to achieve.

There is a need to develop greater guidance for development in determining planning proposals in areas subject to risk of flooding and storm surge. Further flood mapping and policy around developing in flood-prone areas needs to integrate with stormwater planning. This is particularly important for areas within the lower Yakamia catchments and Lake Seppings floodplains. New developments and town planning need to maximise the potential and use of multi-function linear corridors which include open space, ecological corridors, drainage management and flood conveyance and detention.

WATER SENSITIVE URBAN DESIGN (WSUD) IS A STORMWATER DESIGN PHILOSOPHY THAT SEEKS TO IMPROVE WATER QUALITY WHILST USING THAT WATER TO PROVIDE HORTICULTURAL AND ENVIRONMENTAL AMENITY WITHOUT USING SCHEME WATER.



REPORT ITEM DIS 100 REFERS

REFERENCE DOCUMENTS

Albany Arterial Drainage Plan 2017 (City of Albany)
City of Albany Corporate Strategic Plan (City of Albany)
Albany Local Planning Strategy (City of Albany)
Asset Management Strategy – Stormwater (City of Albany)
Flood and Storm Event Response Plan (City of Albany)
Glimpsing Western Australia future Climate: (National Agriculture and Climate Change Action Plan)





1999 SUBDIVISION GUIDE PLAN

REPORT ITEM DIS 101 REFERS



LOCAL STRUCTURE PLAN No. 16 Lots 44 & 46 Bilaboya Place Lot 9041 Willyung Road Willyung, City of Albany

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59 Peels Place ALBANY WA 6330

AYTON BAESJOU

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REPORT ITEM DIS 101 REFERS

CITY OF ALBANY

LOCAL PLANNING SCHEME NO. 1

LOCAL STRUCTURE PLAN NO. 16

Special Residential Area No. 11 Lot 9041 Willyung Road and Lots 44 & 46 Bilaboya Place, Willyung

AYTON BAESJOU

ABN: 15 061 140 172 59 Peels Place Albany WA 6330 Ph 9842 2304 Fax 9842 8494

Endorsement	
This structure plan is prepared under the provisions of the City of Albany Lo Scheme No. 1.	cal Planning
IT IS CERTIFIED THAT THIS STRUCTURE PLAN WAS APPROVED BY RESOLUT WESTERN AUSTRALIAN PLANNING COMMISSION ON:	ION OF THE
Date	
Signed for and on behalf of the Western Australian Planning Commission:	
an officer of the Commission duly authorised by the Commission pursuant to of the Planning and Development Act 2005 for that purpose, in the presence	- o section 16 of:
	_ Witness
	_ Date
Date of Expiry	

Amendments:

Amendment No.	Summary of Amendment	Amendment Type	Date Approved (WAPC)

EXECUTIVE SUMMARY

This Local Structure Plan has been prepared to modify the original Subdivision Guide Plan for a portion of the Willyung Special Residential zone which was prepared in 1999.

The land is located approximately 12 kilometres from the Albany Central Area.

It has been partially developed with five lots created immediately to the south of the King River and a sixth fronting Willyung Road. A Special Use zone located in the middle of the property has been developed with three holiday chalets. The undeveloped balance of the property is used to agist stock.

It is proposed to reduce the lot sizes shown on the original Subdivision Guide Plan and create an additional ten lots ranging from 4350m² to 1.3ha in area.

Key elements of the plan include:

- Updating of the land capability and floodway information.
- Reduction in lot sizes to create a more effective use of the land and to meet the demand for smaller lots.
- Extension of Greenwood Drive to create a loop road which will significantly improve accessibility within the area and meet the need for alternative access/egress to the area.
- Compliance with the Draft Government Sewerage Policy November 2016.

Key outcomes of the Local Structure plan are summarised in the Table below.

ltem	Data		Section Number referenced within the Local Structure Plan report
Total Area of Local Structure Plan	18.1074ha		2.1
Landuse Proposed	Area	Lot Yield	
Special Residential	11.6519	19	5.1
Special Use	6.4555	1	5.1
Estimated Dwellings		19	5.1
Estimated Holiday Chalets		4	5.1
Estimated Additional Population		44	5.1

Table 1:	Local	Structure	Plan	Summary	1
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Appendix A. Land Capability-Geotechnical Assessment: Landform Research. February 2018 Appendix B. Bushfire Management Plan: Bio Diverse Solutions. December 2017

PART 1. – STATUTORY

1.0 Local Structure Plan Area

The Local Structure Plan Area relates to Lot 9041 Willyung Road and Lots 44 & 46 Bilaboya Place, Willyung, as shown below.



Table 2: Land Description

Land Description	Plan	Vol.	Folio	Area Ha	Street Address	Owner
Lot 9041	62317	2810	78	18.1074	208 Willyung Rd.	BJ & CC Lowrie
Lot 44	62317	2810	75	2.2337	Bilaboya Place	BJ & CC Lowrie
Lot 46	62317	2810	77	1.487	Bilaboya Place	BJ & CC Lowrie

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2.0 Content of Local Structure Plan

The Local Structure Plan (LSP) comprises two parts being:

- 1. Statutory; containing the Local Structure Plan Map (Following Page)
- 2. Explanatory; this non statutory section provides the background information, site and land capability assessment, issues and proposed outcomes associated with the Local Structure Plan.

3.0 Relationship to Local Planning Scheme No. 1

The requirements of the LSP apply as if they were part of the Scheme. In any conflict between scheme clauses or provisions and the LSP, the provisions or clauses of the scheme shall prevail.

Words and expressions used in the LPS have the same meaning as given in Local Planning Scheme No. 1.

Pursuant to clause 27 Schedule 2 Part 4 of the Planning and Development (Local Planning Schemes) Regulations 2015, due regard is to be given to the requirements of the Local Structure Plan in any subdivision and development applications.

4.0 Operation

The LSP will come into effect following certification by the Western Australian Planning Commission.

5.0 Subdivision and Development Conditions

In addition to the general clauses of the Scheme and the special provisions of Schedule 15 relating to Special Residential Area No. 11, subdivision is to follow the LSP Map. Minor variations may be approved by the Western Australian Planning Commission.

REPORT ITEM DIS 101 REFERS



LOCAL STRUCTURE PLAN No. 16 Lots 44 & 46 Bilaboya Place Lot 9041 Willyung Road Willyung, City of Albany

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PART 2 – EXPLANATORY

1.0 INTRODUCTION

The purpose of the LSP is to review the existing subdivision guide plan affecting Lot 9041 Willyung Road and to reduce the lot sizes in order to meet the demand for smaller lots and make more efficient use of the land.

The suitability and capability of the land has been reviewed in order to ensure the additional lots can be supported.

2.0 LAND DESCRIPTION

2.1 Location, Area and Zoning

The property is located approximately 12 kms north of the Albany City Centre and is located between Willyung Road on its southern boundary and the King River on its northern boundary. It has been partially subdivided with five lots ranging from one to two hectares which are located at the southern end of the property. Refer Site Plan on Page 5. Three of these lots have been sold and Lots 44 and 46 are still owned by the proponent.

The balance of the property is 18.107ha in area with 11.65ha zoned 'Special Residential' and 6.45ha 'Special Use' (Holiday Chalets). A residence has been developed fronting Willyung Road and four chalets have been developed in the 'Special Use' zone.

The original Subdivision Guide Plan for the area, dated July 1999, provided for 13 lots ranging in size from 8450m² to 2.3ha. Refer Page 6.

2.2 Surrounding Land Use

Land to the east and west is zoned 'Special Residential' and has been subdivided into lots ranging in size from around 4000m² to two hectares. Due to the demand for smaller lots, the Special Residential zoning, land suitability and capability, significant areas, particularly to the east, have been and are in the process of being re-subdivided. Refer Planning Context Map on page 7.

The King River is located to the north and the foreshore area has been consolidated and a foreshore management plan put in place.

To the south on the other side of Willyung Road land is zoned 'General Agriculture' and used to agist stock.

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SITE PLAN Lots 44 & 46 Bilaboya Place Lot 9041 Willyung Road Willyung, City of Albany

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REPORT ITEM DIS 101 REFERS





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PLANNING CONTEXT Special Residential Area (SR 11) Willyung, City of Albany

3.0 PLANNING CONTEXT

3.1 City of Albany Local Planning Scheme No 1

The key planning document which relates to the subject land is the City of Albany's Local Planning Scheme No 1. As noted above, the Scheme zones the property 'Special Residential' and 'Special Use' (Holiday Chalets).

'Schedule 15 - Special Residential Zone' Area 11 to the Scheme sets out the 'Special Provisions' applying to the site. These include:

- A Subdivision Guide Plan which provides guidance in relation to subdivision of the property.
- A minimum lot size of 4000m²
- Permissible/discretionary uses, and
- Building setbacks

These provisions are supported by general provisions contained within the Scheme which include:

- Building Design, Materials and Colours
- Fire Protection
- Modification to Building Setbacks
- Fencing
- Remnant Vegetation Protection and Clearing Controls
- Revegetation
- Drains, Soaks and Bores
- Keeping of Animals
- Effluent Disposal
- Service Infrastructure

While ALPS supports lot sizes from $2000m^2$ in new 'Special Residential' areas, the minimum lot size within this area is $4000m^2$.

3.2 Draft Government Sewerage Policy (November 2016)

This policy applies to the preparation, provision of advice and determination of planning proposals relating to, amongst other matters, structure plans, subdivision of lots less than 4 hectares.

The policy requires all subdivision and development to be connected to reticulated sewerage unless the exemptions of the policy apply.

As the subject land is zoned 'Special Residential' with a minimum lot size of 4000m², exemption is requested under provision 6.2 (6) which states that:

"Land in a sewage sensitive area that is already zoned for urban use with a Residential (R)5 or R10 density coding based primarily on the provisions of the Government Sewerage Policy (Perth Metropolitan Area 1996) or draft Country/Sewerage Policy may be subdivided in accordance with the existing density coding providing that the minimum site requirements as outlined in provision 6.4 are met. A secondary treatment system with nutrient removal may be required."

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3.3 City of Albany Local Planning Strategy

The City's Local Planning Strategy (ALPS) was endorsed by the WAPC in June 2010 and provides a framework for the Local Planning Scheme and key strategies and actions to guide the strategic direction for the City over the next 20 years.

Section 8.2 of the strategy outlines the 'Strategic Planning Objectives' for the City which includes:

SETTLEMENT (Section 8.3)

- Facilitate and manage sustainable growth for the urban area in the City of Albany
- Support the consolidation of serviced urban areas and facilitate staged fully serviced urban frontal development nodes.
- Support urban infill development based on compatibility of land uses and infrastructure capacity.
- Protect areas designated as future fully-serviced urban areas from inappropriate land uses, subdivision and development.
- In the long term encourage the efficient use of existing rural living areas, based on land capability to maximise their development potential.
- Ensure that future rural living areas are planned and developed in an efficient and coordinated manner by being located either adjacent to Albany as designated on the ALPS maps, or within existing rural townsites in accordance with Table 5 along with adequate services and community infrastructure.
- Facilitate and promote the retention and sustainable growth of existing rural settlements.

The main thrust of these objectives is to consolidate both urban and rural living development within the City. In particular, the fifth dot point encourages the efficient use of existing rural living areas, based on land capability to maximise their development potential. This objective is repeated in Section 8.35 'Rural Living' of the Strategy. Rural Living areas are classified to include the 'Special Residential', 'Rural Residential', 'Rural Small Holdings' and Conservation zones.

Objectives for these areas are to:

- Discourage the creation of additional rural townsites for living purposes.
- Avoid the development of Rural Living areas on productive agricultural land, other important natural resource areas and areas of high bushfire risk, flooding and environmental sensitivity.
- Avoid the development of Rural Living areas on future and potential long-term urban areas.
- Provide for compact growth of selected existing rural townsites in accordance with Table 5, based on land capability and available services and facilities.
- Minimise potential for generating land-use conflicts.

ALPS supports lot sizes from 2000m² in new Special Residential areas and supports the subdivision of existing land zoned Special Residential in the City's current Town Planning Scheme.

Actions outlined in Section 8.3.5 include:

• Give top development priority to the subdivision of land currently zoned Special Residential and Special Rural within the City's current Town Planning Schemes and as designated on the ALPS maps. (CoA, WAPC).

• In the long term, maximise opportunities for existing rural living areas that do not have potential for future urban development to achieve higher sustainable lot yields based on land capability/suitability, service provision and local constraints. These areas would be given second priority to meet future demands (CoA, WAPC).

In relation to the 'Objectives' listed above, it is noted that Special Residential Area SR11has already been created and will not involve development on additional productive agricultural land.

4.0 SITE CONDITIONS AND CONSTRAINTS

4.1 Biodiversity and Natural Area Assets

The majority of the site is cleared with remnant vegetation located within the Special Use zone and foreshore of the King River that will not be impacted by the proposed development. Scattered shrubs and trees located within the Landscape Protection Zone designated on the current Subdivision Guide Plan will also be protected with scope for additional revegetation in association with the drainage line.

Proposed development sites and roads are located in cleared areas and will not require vegetation to be removed. As evident from surrounding developed areas, significant replanting of shrubs and trees will occur as the area is developed.

The King River is the most significant natural feature forming the northern boundary of the site. A foreshore reserve has already been created to protect the waterway and associated vegetation. It has been fenced and a strategic fire break/bridle path/walkway runs parallel to the reserve.

4.2 Landform and Soils

The site is undulating, rising from 18m AHD in the south east corner abutting Willyung Road and rising to a ridge line centred on the Special Use site at 30m AHD. The land then slopes down to a drainage line running west-east across the site at between 8 to 10m AHD and then rises to a second ridge line overlooking the King River with a high point of 14m AHD. Refer Site Plan on Page 5.

Soils are similar to those within the adjoining subdivisions and range from laterite duricrust and gravel, terrace sand over ferricrete/clay, sand over clay and granitic sandy loams associated with granite outcrops. A detailed description of the soils is provided by Landform Research in the Land Capability-Geotechnical Assessment (February 2018) and is attached as Appendix A.

The soils have a high capability for development with subdivision design being used to overcome any constraints such as the exclusion and setback of development from the drainage line running west-east through the property.

As noted above, the soils are similar to those of the nearby and adjoining land which has already been subdivided and developed. No adverse impacts or conditions have been known to have been created by this development.

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4.3 Ground Water and Surface Water

4.3.1 Ground Water

Shallow perched winter groundwater is common over the lower elevations of the site, mainly in the small creek line valley in the central north. These areas are excluded from the proposed development areas. Detailed site testing has confirmed that the development areas are elevated and comply with the separations of 500mm to the highest known water tables.

4.3.2 Surface Water

The main hydrological features are the King River abutting the subject land to the north, Willyung Creek which is located further to the east and a small drainage line which drains into the King River in the central north of the site. These drain to the east through the King River to Oyster Harbour.

The King River has a steep sided valley dropping from the alluvial terraces along its boundary. There is virtually no flood plain and none adjacent to the subject land. In contrast, the Willyung Creek to the east has an extensive flood plain, none of which impacts on the subject land.

Apart from the small drainage line in the central north of the site, surface run off is not common because of the porosity of the soils. Surface water only exists where perched water tables on the terraces touch the surface in winter.

There are no wetlands located within the LSP area.

4.3.3 Flooding

A detailed assessment of flood levels for the subject land has been undertaken by Landform Research which updates previous work carried out in 1997. The review confirms the 1997 data with some minor adjustments. The predicted flood levels are shown, together with recommended building envelopes and waste disposal areas for proposed house sites, on the plan overleaf.

4.4 Bushfire Hazard

Apart from the Special Uses zone which is heavily vegetated, the balance of the LSP area has largely been cleared with the exception of individual trees and vegetation associated with the drainage line in the central north of the site. A fire management plan has been prepared for the area by Bio Diverse Solutions and is attached as Appendix B.

4.5 Heritage

An online search of the Aboriginal Heritage Inquiry System indicated that the site was not listed as a Registered Aboriginal Site or Survey Area.

A search of the Heritage Council WA data base also found no recorded sites of European heritage.

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SITE TEST HOLES / FLOOD & WASTE WATER DISPOSAL AREAS

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Lots 44 & 46 Bilaboya Place Lot 9041 Willyung Road Willyung, City of Albany

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4.6 Servicing

4.6.1 Roads

Vehicular access is provided by Willyung Road, Greenwood Drive, Kelty View and Bilaboya Place which have all been constructed to a bitumen standard. Greenwood Drive is the only road which will need to be extended to support the proposed subdivision. It will link up with Greenwood Drive which has already been constructed immediately to the east of the subject land. This will complete the main subdivisional loop road which will provide an overall through access and egress to the locality.

4.6.2 Water

Scheme water is available to service the proposed subdivision.

4.6.3 Effluent Disposal

As scheme sewer is not available to service the proposed development, appropriate on-site effluent disposal systems will be required. Conventional septic systems are not recommended within this area given the potential for perched water tables in winter. Alternative nutrient adsorbing waste water disposal systems are recommended.

4.6.4 Power and Telecommunications

Power and telecommunications services have been established in the area and can be extended to service the proposed development.

4.6.5 Stormwater

The Landform Research document recommends that the best way to assist drainage is to encourage the use of rainwater collection and use for a potable supply or garden watering, and to require disposal of stormwater on each lot through soak wells located in sand fill areas. The use of swale drains in association with proposed roads is also recommended. This may negate large surface flows and reduce the need for infiltration basins. Most of the roads are already in place and associated swales have been shown to work effectively.

5.0 LAND USE AND SUBDIVISION REQUIREMENTS

The Willyung/Bilaboya Local Structure Plan aims to modify the Willyung Subdivision Guide Plan which was prepared for the area in 1997 and convert it to a Local Structure Plan. In accord with the City of Albany Local Planning Strategy, it is proposed to make more efficient use of the land which is zoned for Special Residential purposes with a minimum lot size of 4000m². The existing plan is based predominantly on lots in excess of 1.0ha.

5.1 Landuse

It is proposed to retain the existing landuse which includes:

- Special Residential lots with a minimum lot size of 4000m²; and
- Holiday accommodation within the Special Uses zone.

The Structure Plan Summary Table in the Executive Summary outlines the key outcomes of the Plan.

While no change is proposed to the Special Uses zone, the number of special residential lots will be increased from 13 to 19, an overall increase of 6 lots. Approximately 44 people will be accommodated within the additional lots.

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5.2 Suitability of Proposed Landuses

The Land Capability - Geotechnical Assessment concludes that the site is highly suitable for the proposed special residential subdivision with a minimum lot size of 4000m² for the following reasons:

- The proposed development sites are located on cleared land with no requirement to clear remnant vegetation.
- The soil types and utilisation of alternative treatment units for on-site effluent disposal are highly capable of accepting the nutrient loading and will minimise the potential for the export of nutrients from the site.
- The change in landuse from the agistment of stock to rural residential lots will reduce the nutrient loading and significantly reduce the nutrient export risk.
- The predominantly cleared development areas reduce the bushfire risk.
- Essential infrastructure such as sealed bitumen roads, underground power and a scheme water supply are already available to service the development.
- Special residential development with lot sizes ranging from 4000m² to over one hectare is compatible with the surrounding rural residential development which has been successfully established over the last eighteen years.
- The modest increase in number of lots created on the site represents a more efficient use of the land which helps to reduce the pressure to subdivide additional rural land.
- The undulating nature of the topography, presence of pockets of remnant vegetation and backdrop of the heavily vegetated King River foreshore contributes to an area of high amenity for special residential development.
- The land is not located in the pathway of future fully serviced urban development while at the same time having reasonably convenient access to services provided in and around Albany.
- The extension of Greenwood Road will complete the main loop road serving the locality which will significantly improve access and egress to the area.

6.0 CONCLUSION

The Willyung Road/Bilaboya Place Local Structure Plan modifies the original 1999 Subdivision Guide plan to increase the number of Special Residential lots from 13 to 19. This is in line with consolidation that has been occurring within the area in response to the demand for smaller lots which has been supported by land suitability and capability assessments. The original land capability study has been revisited and additional site testing carried out. The assessment concluded that the site is highly suitable for further development and that the risk of phosphorous or nitrogen leaching into any waterway is insignificant to nil. All effluent disposal areas will be located at least 100m from creek or drainage lines and alternative nutrient absorbing effluent disposal systems are recommended.

A bushfire management plan has also been prepared to ensure the development meets current guidelines. In particular, the development will facilitate the completion of Greenwood Drive which will provide two way access and egress for a significant area of the Willyung Road Special Residential Area.

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Appendix A

Land Capability-Geotechnical Assessment

Landform Research February 2018

REPORT ITEM DIS 101 REFERS

LAND CAPABILITY - GEOTECHNICAL ASSESSMENT

LOTS 44 and 46 BILABOYA PLACE and LOT 9041 WILLYUNG ROAD, WILLYUNG, ALBANY

CITY OF ALBANY

FEBRUARY 2018

Land Capability - Geotechnical Assessment Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, WILLYUNG, ALBANY

LAND CAPABILITY - GEOTECHNICAL ASSESSMENT

LOTS 44 and 46 BILABOYA PLACE and LOT 9041 WILLYUNG ROAD, WILLYUNG, ALBANY

Prepared for AYTON BAESJOU PLANNING



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SUMMARY OF LAND CAPABILITY AND GEOTECHNICS

Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road is proposed to be subdivided to special residential lots. The surrounding land to the east and west has already been developed and roads allocated across the subject land.

The proposed subdivision is bounded by Willyung Road in the south and the King River in the north. It lies 2.3 kilometres upstream of the Upper King Bridge, 7.5 km upstream from the mouth of the King River and 7 km from the Albany townsite.

The site has been used for grazing and rural living. The land uses are the same as those on the adjoining land, prior to subdivision and development.

A chalet facility is located in a bush remnant in the central south.

The size of lots on the cleared land will be mainly related to planning issues. Environmental issues are not limiting. Lot sizes are more related to planning and servicing and drainage.

The site and local area has been extensively studied for environmental issues and in particular flood risk.

The site is cleared, but has scattered trees around the lower lying areas and an area of remnant vegetation in the south on which are located a series of chalets.

Currently the site is largely cleared with only small areas remaining uncleared. Land to the west has been subdivided and is in the process of being built on.

The land is used for grazing and there are currently no dwellings, although a dwelling is located on Lot 45, between Lots 44 and 46, near the King River.

The soils on site are no different to those within the adjoining subdivisions and consist of sands over clay varying from low more sandy rises in the east down to lower elevations in the north west and south west where the soils have been drained. The chalet area is a laterite gravel covered low ridge.

With such large lots, building envelopes are able to be located adjacent to existing and proposed roads, maintaining the existing vegetation, foreshore reserves, setbacks and providing flood protection.

The site is highly suitable for the developments proposed and is no different from the adjoining developed land.

Alternative – nutrient adsorbing waste water disposal systems are recommended.

Foundation stability is high.

No specific actions are required for dwellings apart from normal construction techniques.

Nutrient Loss Risk

The reduced **phosphorus** from alternative systems when compared to conventional septic systems is shown by the Department of Health Approved Treatment Units where all units are listed as being capable of removing over 50% of the phosphorus and most are capable of removing over 97% of P depending in the unit chosen.

Even soils with a PRI of 1.5 will adsorb all the phosphorus when the 100 metres minimum travel paths through the soils to the closest water bodies. At PRI 1.5 each cubic metre of soil is capable of adsorbing 2.25 kg P. Allowing for only a 1 metre wide flow path, the minimum 100 travel distance will be capable of adsorbing 225 kg P or the total phosphorus released from well over 100 years even being very conservative. In reality with the larger flow paths the phosphorus will probably never reach any waterway.

Gerritse 2002 provided PRI for soils in the King River and Lower Kalgan catchments. The lowest PRI was 8 with a surface sand of "deep sand – podsol" having a PRI of 0 but the subsoil had a PRI of 390.

Therefore the risk from phosphorus is therefore not a significant risk from alternative waste water or nutrient adsorbing systems. These reductions are in phosphate export risk are in line with Government Policy.

The issues relating to **nitrogen** removal from waste water are irrespective of lot size provided it is above the minimum of 2 000 m^2 which the approved lots are. Within the waste water disposal bed soil bacteria convert nitrate to nitrogen gas which is lost to the atmosphere.

The increased effectiveness of nutrient adsorbing waste water systems is shown by research by Envirosafe which has found that nitrogen is reduced by 75% at the edge of the waste water disposal area, (Jo Hopley Envirosafe, 31 July 2002) and then further reduced by the soils.

The dentrification provided in the alternative systems when compared to the loadings is shown by the Department of Health Approved Treatment Units where all units are listed as being capable of removing over 50% to over 97% of N depending in the unit chosen. Those reducions are achieved at the edge of the nutrient adsorbing system.

The critical factor is retaining water in the soil or on site for as long as possible. With the proposed lots and gentle slopes, treated waste water will be retained by dense pasture and slow lateral flow and therefore minimum travel distances of 100 metres through soils after leaving the edge of the waste water system

The risk of nitrogen loading or leaching to a waterbody is therefore regarded insignificant to nil.

The proposed subdivision with the proposed lot sizes will not lead to any significant increases in nutrient loading to the King River or Oyster Harbour.

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REGOLITH AND HYDROLOGICAL LOGS

Attached

1.0 INTRODUCTION

Site Assessment – Methodology - History

The study site on Willyung Road was assessed by field work on 23, 24 and 25 January 1997, as part of a study for a larger subdivision area. At that time discussions were held with property owners, over 100 soil test holes were sunk, the soils were assessed and the flood potential investigated. Flood levels were determined by geomorphological mapping and discussions with local people and a comparison of earlier floods.

Wood and Grieve completed a series of soil test holes on 16 October 1998 across the wider area including on the subject land.

The best time of year to complete soil testing is in late winter for soil moisture, and a late winter survey is proposed, which in Albany late September early October timing is best as the water tables are highest at that time. This was the time that Wood and Grieve completed their study in 1998, the data from which remains valid today.

At that time the depths to the highest winter water tables were predicted from ground observations and observations of the soil profiles.

In November 2008 a 0.5 surface contour survey and spot elevations was completed by John Kinnear and Associates.

Since that time extensive work has been completed on adjoining land and the Willyung Flood Study has been published, which provides indications of flood levels for the study land but does not quite impact on the land. The City of Albany commissioned a flood study of Willyung Creek and this resulted in the publication of a flood study by GHD in 2007.

As a result of the field work and considerations a subdivision was approved across the whole of the land, the subdivision constructed and the land subdivided. Generally the lots were 2 hectares in area.

The approved subdivision guide plan provided the setbacks from Willyung Creek and King River and these were reflected in the subdivision of the subject land and the adjoining land upstream and downstream.

A key part of this study was to incorporate the GHD flood study mapping into more accurate field investigations, to better define the developable area.

During this latest study the soils were surface mapped to check the boundary areas particularly near winter wet areas and areas potentially subject to flooding.

Since the original subdivision the land has been developed and some lots sold.

During the same time frame, adjoining land to the east has also been subdivided and developed with lot sizes down to less than 1.0 hectares.

The other changes that have occurred since the original subdivision are:

- > Recognition of the potential bushfire impacts on peri urban land.
- > The difficulty with maintaining a low bushfire risk on larger lots.
- > The need to reduce lot sizes to maximise land use and consolidate developments.
- > The updated Sewerage Policy which remains in draft form.

- > The development of better and more efficient waste water systems with respect to usable life and nutrient management.
- The recognition of the importance of keeping developments consolidated for ease and cost of servicing and reduced environmental impacts.

In order to check whether the land can support this level and type of development a site study was completed by Lindsay Stephens of Landform Research on 3 November 2017 when further soil test holes were excavated to up to 1.8 metres on all lots to be subdivided. It should be remembered that each of these lots is currently approved for development of one dwelling with associated on site waste water disposal and all that was being assessed is whether a second dwelling could be constructed on each lot.

The soil test holes were dug with a mini excavator and the soils and depths to the water table were assessed. The results of the soils testing are attached in the soil logs which include the logs for the past holes. The timing of the soil testing was felt appropriate as the winter of 2017 in Albany received above average rainfall in months July to September inclusive, even though October was slightly below average.

The soils remained wet and the water tables remained at or near their peak winter elevation. In addition the elevation of the water tables could be compared to the data from October 1998. There was also the potential to allow for greater separations to the water table.

In all test holes the water table significantly exceeded the generic 0.5 metre separation even though the draft Sewerage Policy permits fill and drainage to achieve satisfactory separations. These constructions are not necessary.

On 3 November 2017 the now available one metre contours were used in conjunction with site geomorphological observations to refine the potential flood elevations. The elevations of the flood are set much more conservatively and are based on the potential for the King River, Willyung Creek and other watercourses all to be flooding on a situation of a high tide and wave or tidal surge. Because land above these conservative nominations is available, the building envelopes have been set back at a very conservative elevation.

Site Description

The proposed subdivision is bounded by Willyung Road in the south and the King River in the north. It lies 2.3 kilometres upstream of the Upper King Bridge, 7.5 km upstream from the mouth of the King River and 7 km from the Albany townsite.

The King River is navigable and tidal from Oyster Harbour to just downstream of the subdivision.

The site is cleared, but has scattered trees around the lower lying areas and an area of remnant vegetation in the south on which are located a series of chalets.

Current Land Use

Currently the site is largely cleared with only small areas remaining uncleared. Land to the west has been subdivided and is in the process of being built on.

The land is used for grazing and there are currently no dwellings, although a dwelling is located on Lot 45, between Lots 44 and 46, near the King River.

The land in the central south, which is occupied by remnant low forest, is a chalet development.

Proposed Developments

For the reasons listed above, the larger lots on the subject land are proposed to be split in half to produce lots varying from 0.4 hectares to over 1.0 hectares depending on the proximity to the King River and the soils.

This reduction in lot sizes is in line with current thinking for developments.

It is proposed to create 19 lots ranging in size from 4,600m2 to 1.3ha. The larger lots are located in the lower lying land and the smaller lots on the more elevated land. The four chalets are to be retained within the remnant vegetation as a single lot.

While the proposed subdivision has lots down to 0.4 hectares, if the remnant forest area is included there will only be 19 dwellings and 4 existing chalets on an area of around 27.8 hectares or a loading of one waste water system per 1.2 hectare.

2.0 WEATHER CONDITIONS

Climate

The climate of Albany consists of cool winters followed by warm summers.

Weather data is recorded at Albany and Albany Airport.

The overall climate however is warm, dry summers with cool, wet winters. Drizzle from onshore winds is common during summer nights and mornings.

Rainfall at Albany Airport is 798 mm per year and 932 mm in the town, and 794 per year at Kalgan River. Rainfall on site will therefore be likely to be somewhere between those figures. Mean monthly rainfall varies from near 20 mm in summer months to 130 mm in the winter months.

Temperatures could be expected to have a summer maxima of 25 $^{\circ}$ C in the hottest months down to just over 15 $^{\circ}$ C in the coldest months, July and August. Minimum temperatures range down to 10 $^{\circ}$ C in the coldest months.

Annual evaporation is less than 1000 mm per year, with rainfall exceeding evaporation for almost nine months of the year.

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Climate Seasonal outlooks Reports & summaries	S A g	iummary summary letailed da	r statistic r of the m ta for ind	cs ALBA ajor clima vidual sit	ANY AIRI Ite statisti 95 is avai	PORT CO cs records lable.	OMPARIS ed at this	BON site is pro	vided bein	ow. There	is also ar	n extende	d table wi	ith more s	tatistic	s availa	bie. N	ore
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Moon minimum temperature (*C) Rainfall	0	13.7	14.5	13.4	11.7	9.8	8.1	7.5	7.5	81	9.2	10.8	12.5	10.6	49	1960 2014		
Mean rainfall (mm)	10	23.6	22.3	35.6	61.3	89.6	108.0	118.5	108.8	88.5	70.8	47.0	27.8	798.1	45	1960 2014	-	1
Decile 5 (median) rainfall (mm)	0	13.5	17.0	26.4	65.2	81.5	101.1	118.7	102.8	79.6	63.6	39.8	20.3	801.1	60	1960	da	18
Mean number of days of rain a 1 mm	0	2.6	2.6	4.0	6.3	82	9.9	11.1	10.0	0.0	8.0	5.7	37	83.1	50	1963	de	-
Other daily elements									-	-					-	1005	-	
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Mean number of clear days	0	6.1	5.1	4.8	3.8	32	3.4	3.1	3.0	2.9	2.5	2.6	4.8	45.3	48	2010		
Mean number of cloudy days	0	11.5	12.6	14.2	15.8	15.7	13.7	14.5	14.3	15.6	17.4	17.1	13.2	175.6	46	1965		
9 am conditions		10.0	10.0	10.7	10.4	13.0		10.0		12.4	14.0	10.0	18.0	15.5	AP	1965		
Maan firm relation humidity (61)	0	10.0	10.0	10.7	10/0	10.0	41.0	10.0	10	70	(4.4	10.0	in d	10.3	40	2010		-
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Mean 3pm temperature (*C) Mean 3pm relative humidity (%) Mean 3pm relative humidity (%)		55	55	50	61	54	10.0	10 1	70.4	20.4	72.4	24.1	205.4	97.4	40	1965		-

Table 1 Climate Data

3.0 REGOLITH AND SOIL ASSESSMENT

3.1 Geology and Geomorphology

The site lies in gently undulating country of the southern valley side of the King River.

Much of the southern portion of the site lies on a series of alluvial terraces and floodplain associated with King River.

Elevation varies from 9 metres AHD in the central north dropping to below 7 metres at King River and a small tributary in the central north before rising to a ridge of 30 metres AHD in the central south of Lot 9041 and then dropping to 18 metres AHD at Willyung Road.

The whole site is underlain by undulating porphyritic granite basement rocks of Proterozoic age. The granite outcrops irregularly as isolated boulders across nearby land indicating that the basement is relatively close to the surface. Near the granite boulders the surface is covered by coarse sand originating from weathering of the granite.

Much of the remainder of the site is underlain by fine silty clay sand of likely Plantagenet Group origin, either resorted or deposited on the underlying materials.

The ridge in the south is occupied by laterite gravel.

Geological History

The geological history of the area is important to an understanding of the hydrology of the site.

In the Tertiary the site was an undulating land surface developed on granite. Flooding of the landscape allowed for deposition of horizontally bedded siltstones of the Plantagenet Group, infilling the valleys between the small granite hills and ridges.

With changes to sea levels a series of alluvial terraces developed, at about 8 and 15 metres, which are present across the local area. On the subject land the terraces are gently sloping as they have degraded.

The current Willyung Creek and King River reworked and eroded the alluvial terraces to form the current pattern with an incision into the previous alluvial surface. No floodplain has developed as yet for the King River in this area where steep valley slopes are present along its frontage.

It is unclear when the laterite formed but may predate the alluvial down cutting and is likely to reflect an earlier surface on which the laterite capping provided greater resistance to erosion or it may relate to laterite development on the higher land surface. The evidence seems to suggest that the gravel predates the finer covering sand in the south.

3.2 Regolith and Soils

The soils are sandy on the lower elevations with sand over the Plantagenet Group on the upper ridges and sandy loams associated with granite outcrops. Sediments exposed in the base of dams in the north west outside this location appear to be Plantagenet siltstones.

The site has widespread covering of redistributed sand which blankets the higher elevations. This was originally yellow containing a small amount of clay. Clay is leached and moves down through the profile to deposit in the lower horizons.

With weathering, organic compounds in the upper soil horizons have leached the yellow goethite covering from the sand grains moving it downwards to be deposited as ferricrete pebbles and hard pan above the clay enriched subsoils. Organic material from the surface layers is also deposited at the ferricrete layer making it slightly peaty in places, generally in the wetter areas outside the building envelopes.

In most locations the clay sub-soils may be Plantagenet sediments which outcrop to the north of the King River and in dams further to the west and could be expected to underlay the site.

The soil formation process therefore creates a leached surface layer of fine quartz sand over an organic ferricrete layer at depths of between 300 to 2 000 mm. Frequently the sand becomes more clay rich with depth, grading to clay sand or sandy clay which further restricts vertical penetration of shallow ground water. The ferricrete reduces percolation of precipitation leading to the formation of perched water tables. In addition the fine grainsize of the sands restricts horizontal drainage and leads to areas on the back of the alluvial terraces being subjected to seasonal water logging.

The leaching processes which produce the ferricrete hard pans have occurred several times in the past under seasonally wet and dry conditions and are still taking place today.

The flood plains are covered by reworked white quartz sand which is better sorted with less clay, over clays probably of alluvial origin.

Weathering of granite outcrops leads to local areas of coarser quartz sand soils.

The alluvial terraces have four soil units developed on them. The ridge is a laterite soil on elevated ground and the lower lying potentially flooded area is seasonally waterlogged.

The soils have been mapped on a number of occasions, not just across the subject land but the adjoining land and nearby land between the King River and Willyung Road, from 1997 until current by Landform Research and other consultants.

A number of soil test holes have been located across the wider area on the subject land and these are attached.

On site the soils are summarised in the table below.

Soil Type	Description	Broad Soil Unit
L	Laterite Duricrust and Gravel	Ridge laterite and duricrust
SL	Fine leached sand over laterite duricrust and gravel at less than 0.5 metres	Terrace sand over hardpan/clay
S	Sand over ferricrete at depths off 0.5 – 1.8 metres. Fine sand of likely Plantagenet Beds origin, either in situ or having been reworked.	Terrace sand over hardpan/clay
S/C	Sand over sandy clay, partially seasonally waterlogged.	Floodplain sand/clay
GS	Granitic sand derived from weathering granite either from the local basement or transported material predating the finer sands. Coarse quartz sand with increasing kaolin rich clay at depth.	Terrace sand over hardpan/clay
L/W	Partially waterlogged sand, predominantly leached over ferricrete at 0.5 – 1.5 metres	Terrace sand over hardpan/clay

Table 2 Soil Descriptions

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Characteristics	Terrace sand over hardpan/clay	Floodplain sand/clay	Laterite Ridge and Duricrust
Location	Alluvial terraces	Valley of the King River and small stream line in the central north.	Elevated ridge
Origin	Sand sheet over Plantagenet silty sediments with irregular granite basement at depth.	Fine sand reworked by the streams over alluvial clays	Laterite gravel and duricrust developed on granitic basement soils.
Top soil Texture	Fine grey sand	Fine grey sand	Brown laterite gravel with minor sand
Sub soil Texture	Leached white sand, yellow sand or clay sand over deep impermeable granite basement, ferricrete or clay.	Leached white sand, fine mottled sandy clay	Yellow brown laterite gravel and duricrust over granite basement at depth.
Rock in profile	Nil apart from basement material	Nil	Laterite duricrust from scattered to common.
Bedrock	Variable from 4 or more metres to 300 mm near granite outcrop	Generally deep but varying from several metres to one metre near granite outcrop	Generally deep but varying from several metres to one metre near granite outcrop
Gravel	Minor with ferricrete normally at less than 1 metre	Nil apart from ferricrete hard pan at less than 1 metre	Major component of the upper surface horizons
Hardpan	Common, organic/ ferricrete layer is widespread, at generally less than 1 metre depth	Common, organic/ ferricrete layer is widespread, at generally less than 1 metre depth	The duricrust forms a discontinuous hard pan.
рН	Neutral to acidic	Neutral to acidic	Neutral to acidic
Salinity	Low	Low	Low
Waterlogging	Generally well drained.	Some areas experience winter perching of the	Dry through winter.
		water tables.	
Soil Permeability	Moderate to high depending on depth of impermeable layer and grainsize of sand	High in the sand but restricted by the presence of hard pan at depth	High, dropping in the clay based subsoils.
Soil Permeability Soil Shrinkage	Moderate to high depending on depth of impermeable layer and grainsize of sand No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Sand is not expansive.	High in the sand but restricted by the presence of hard pan at depth No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Sand is not expansive.	High, dropping in the clay based subsoils. No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Gravel is not expansive without significant clay being present.
Soil Permeability Soil Shrinkage Water Repellence	Moderate to high depending on depth of impermeable layer and grainsize of sand No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Sand is not expansive. Minor in sands of this type, and may occur on the ridges.	High in the sand but restricted by the presence of hard pan at depth No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Sand is not expansive.	High, dropping in the clay based subsoils. No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Gravel is not expansive without significant clay being present. Low
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Soil Permeability Soil Shrinkage Water Repellence Soil Compaction Dispersible Soils Susceptibility to wind erosion Susceptibility to water erosion	Moderate to high depending on depth of impermeable layer and grainsize of sand No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Sand is not expansive. Minor in sands of this type, and may occur on the ridges. Low Nil Low because of the climate Generally low but surface water directed over steeper slopes can erode	High in the sand but restricted by the presence of hard pan at depth No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Sand is not expansive. Low Nil Low because of the climate Low	High, dropping in the clay based subsoils. No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying. Gravel is not expansive without significant clay being present. Low Nil Low Generally low but surface water directed over steeper slopes can erode

Table 3 Soil Properties

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Water logging So are und to t ele	ome minor winter wet reas where the nderlying clay is closer the surface or low evations.	Some winter wet areas at low elevations.	Nil
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Conclusions

The soils are no different to the soils of the approved and developed lots that adjoin to the west and east based on the soil mapping conducted by Landform Research and other consultants.

That information and data was used to gain approval of subdivisions on that land which is now well developed with dwellings showing no adverse impacts or creating any known adverse conditions.

Regolith and Soils and	Regolith and Soils and Recommended Management				
Regolith and Soils	 Soils have high capability for development with subdivision design being used to overcome any limitations. The soils are similar to those already subdivided and developed in the nearby and adjoining areas. The building envelopes are selected to avoid any deleterious conditions or conditions which will not comply with the Government Sewerage Policy. Any adverse conditions are avoided by subdivision design. 				
Recommendations	 Normal practice of soil and development management on sloping loam soils is recommended. 				

4.0 SITE FOUNDATION GEOTECHNICAL ASSESSMENT

Geotechnical Assessment was conducted by Lindsay Stephens to identify issues listed under *State Planning Policy 3.4, Natural Hazards*. The work was conducted to various standards that are listed throughout the report, but particularly to *AS 1726 Geotechnical Site Investigations, AS 2870 Residential Slabs and Footings – Construction* and *AS 3798, Guidelines on Earthworks for Commercial and Residential Developments* in addition to Guidelines produced by the *Australian Geomechanics Society*.

A summary of the geotechnical issues is included in the table below.

A summary of the land capability of the site is shown in the tables presented below. A number of management issues can be identified and these are highlighted in the following notes. The management of these issues is covered in more detail in the Environmental Management of the site and the Foreshore Management Plan.

The main issues with land capability have been covered by the previous land capability and geotechnical studies conducted by Landform Research and other consultants on the subject land and on the adjoining and nearby land with the same soil types and characteristics.

This study is to refine the boundaries of the developable area for the subject land.

A summary of the geotechnical issues is included in the table below.

Soil Characteristics	Terrace sand over hardpan/clay	Floodplain sand/clay	Laterite Ridge and Duricrust	Issues Potentially Requiring Management
Foundation stability	Good foundation conditions due to the deep sands over silty clay over the identified developable area.	Reduced foundation stability because of waterlogging.	High foundation stability	Areas of reduced stability are excluded from the building envelopes.
Landslip Risk	Soils are flat to gently sloping.	Soils are flat to gently sloping.	Soils are very stable and dry	No special requirements
Ease of excavation	High	High	High even where duricrust is present	No special requirements
Compaction	Sandy soils are easy to compact.	Sandy soils are easy to compact.	Yellow brown laterite gravel and duricrust over granite basement at depth.	No special requirements
Expansive soils	No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying.	No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying.	No expansive soils or clays were noticed but some clayey subsoils are likely to experience minor contraction on drying.	No special requirements
Phosphate retention	Phosphate retention levels are low in leached surface sands such as this. The subsoils have good phosphate retention.	Phosphate retention levels are low in leached surface sands such as this. The subsoils have good phosphate retention.	Good phosphate retention	Alternative or nutrient adsorbing waste water systems will be used and overcome any potential reduced capability
Nitrogen loss and denitrification	All soils have sufficient capability for denitrification to occur because of their denitrification potential from reducing conditions.	All soils have sufficient capability for denitrification to occur because of their denitrification potential from reducing conditions.	All soils have sufficient capability for denitrification to occur because of their denitrification potential from reducing conditions.	Managed by the waste water design and installation.

Table 4 Summary of Geotechnical Properties for Development

REPORT ITEM DIS 101 REFERS

Land Capability - Geotechnical Assessment Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, WILLYUNG, ALBANY

Microbial purification	Soils have low capability for this. Nutrient adsorbing/ alternative waste water systems are designed to remove microbial material.	Soils have low capability for this. Nutrient adsorbing/ alternative waste water systems are designed to remove microbial material.	High capability	Managed by the waste water design and installation.
Acid sulfate	Organo ferricrete sands were only encountered below the level at which they are likely to be disturbed by development. Deep excavations are unlikely with fill the most likely option during development. Extensive testing on adjoining properties on lower elevation land did not reveal any risk.	Organo ferricrete sands were only encountered below the level at which they are likely to be disturbed by development. Deep excavations are unlikely with fill the most likely option during development. Extensive testing on adjoining properties on lower elevation land did not reveal any risk.	Nil	The subsoils are unlikely to be exposed but rather be filled.

4.1 Foundation Stability

Foundation Stability relates to the suitability of the soils to accept dwellings or other structures. The assessment of Foundation Stability is conducted using the geotechnical methods outlined in AS 1726, and to the standards outlined in AS 2870, for single storey dwellings.

Foundation stability is related to the ability of a soil to compact and remain stable. Silica sands are best for this. Sloping clay soils, soils loaded with water, or expanding clay, will all lower the stability.

AS 2870 considers foundation stability to a depth of three metres and a 50 year consideration period. The foundation stability rating can be improved by the use of compacted sand fill, pile foundations and heavier footings.

Field assessment is an important part of this assessment to determine what soils factors may impact on soil stability. The type and composition of the soils, the underlying geology, the presence of expansive clays or compressible materials, slope stability, summer and winter soil moisture and vegetation can all influence soil conditions. The interpretation provides background on what soil modifications are appropriate and what changes or improvements might result. Normally on Site Class M soils, a compacted sand pad of 900 – 1200 mm thickness is used to improve the Site Class to Class S.

A number of drainage steps and good construction techniques are normally also used to improve foundation stability.

Foundation stability is assessed to AS2870 classification, from detailed site mapping at the subdivision stage, and in particular the design of the footings, taking into account the type of dwelling to be constructed.

The site is underlain by deeper silica sands over silty and clayey sands of the Plantagenet group with the sand over clay alluvium generally excluded from development.

Even the lower elevations have deep sand, however there is a thick layer of grass and some spongy nature to the topsoil in the upper 300 mm that can reduce foundation stability if not removed.

Removal of the top 300 mm of vegetated soil is normal, and in lower elevations when combined with fill can also provide good foundation stability.

No evidence of peat was observed although some organic and ferricrete enriched sand was observed in one hole at depths in excess of 1.2 metres. See the attached soil logs.

Natural foundation stability from the field observations is rated as AS 2870 Site Class S to M on the ridge and Site Class M on the lower lying soils. With fill and site preparation this can be managed to AS 2870.

Detailed individual testing of building envelopes will be required to determine the site specific soil conditions at the time of construction. The depth of fill sand will also determine the Site Class. For example adding 1 metre of fill is likely to reduce the Site Class by one category.

This level of testing cannot be completed now because the site will be drained and/or filled which will potentially change the Foundation Stability Site Class.

Also Individual soil testing will be required at the time of design of footings for any dwelling, because at this stage the exact location of any dwelling and knowledge of the type of construction is not known.

The individual site testing will be incorporated into the engineered site plans and designs for any dwelling.

Ease of Excavation

The presence of basement rock, shallow groundwater, steep slopes or hard clay can all restrict excavation and increase costs of developments.

All soils are easily excavated for developments.

The main constraining feature is the depth to underlying clayey sands. This does not affect the laterite soils.

Compaction Ability

Some soils such as quartz sands are easier to compact when using cut and fill. Others such as calcareous sands and hard clays can be more difficult to compact under certain conditions such as when dry or non wetting. Under such situations wetting agents, water and efficient compaction in lifts, can be used to ensure compaction for developments.

The subsoils are sand over clay with the upper layers able to be readily and effectively compacted. The subsoils which have some clay fraction are less readily compacted if excavated and replaced as fill and will generally require additional sand fill rather than the use of sub soils.

Expansive Soils

Some clays such as smectites can be expansive and can swell when wet and shrink when dry. This occurs more commonly in poorly drained, seasonally wet and saline conditions in Western Australia. However in the Eastern States expansive clays are relatively common and occupy 30% of the soils in Australia. To maintain stable foundations under expansive clay conditions the footings may need to be heavier or sand pads thicker in addition to maintaining stable soil moisture.

The soils are sand over clay based.

Generally there is nil risk in the sand but some minor expansion-contraction can occur in the underlying clay subsoils. Any winter wet soils should be considered as potentially moderately expanding, and the footings assessed and designed accordingly.

Karst

Karst is cavity and cave development in limestone, or dolomite that occurs under conditions where groundwater has or had strong flows in the past or where groundwater had contact with acidic organic enhanced conditions such as at the edge of wetlands or where limestone overlies impervious basement such as clay or granite. In such situations the limestone may have cavities developed in it which can reduce foundation stability.

No limestone is present and therefore no karst occurs.

Capillary Action

Capillary action in a soil is the drawing up of water from subsoils or wet areas. Normal design of footings, the thickness of sand pads and the use of impermeable membranes are all used to negate any risk.

As good practise the use of cut off drains and sand pads on potentially wet areas on slopes is recommended.

The subject land is well elevated and well drained. There are some small areas of soil that are susceptible to minor winter wet conditions, but these are avoided by subdivision design and the allocation of building envelopes.

It is normal good practise to have the sand fill a minimum of 600 mm above the natural soil, grading back around the perimeters to that natural soil. On the upslope side it is recommended that the floor elevation is at least 300 mm above the upslope natural land surface to allow adequate drainage and prevent storm flooding risk.

The road swale drainage will provide cut-off for water flowing down the gentle slopes.

Road Construction

Road construction conditions are high, with gentle slopes, where road construction costs are minimized.

The gravels on site are excellent for road construction and it is likely that road making materials could be taken from on site as required.

4.2 Landslip Risk

Landslip Risk is assessed using the methods developed by the Australian Geomechanics Society (Journal Australian Geomechanics, Volume 35, No 1, March 2000). The risk of Landslip or ground movement depends on the geology, soil types, hydrology, landforms and vegetation.

Steep soils that are loaded with water and have the slopes changed or vegetation removed are all at greater risk of soil creep and landslip.

Slopes on the development area are gentle with minimal soil creep or landslip risk.

Landslip risk was assessed using the methods outlined in Australian Geomechanics, Volume 35 No 1, March 2000 and is rated as Very Low and covered by providing suitable foundations.

Landslip Risk Identified and Recommended Management				
Landslip	•	Landslip Risk is rated as Very Low and managed through normal foundation design and construction.		
Recommendations	•	Normal construction practise matched to the soils.		

4.3 Stability of Dams

Stability of Dams depends on their location with respect to the underlying geology, the hydrology and the soil types. The proportion of clay, whether the clay is dispersible, slopes and gradients, the water table, rainfall pattern, design and construction of the dam and spillway, and geology, can all impact on the potential stability of a dam.

The only dams and soaks are on the low lying areas outside the proposed building envelopes. A dam does lie on proposed Lot 5. Soil testing in winter 1998 and on the adjoining proposed Lot 6 demonstrated that the separation to the ground water was possible up slope from the dam. There is also potential for waste water disposal down slope or to be pumped upslope. Filling of the dam may also be preferred by the landowner.

Risk Identified with Dams and Recommended Management			
Dams	•	No observed risk for the dams and none is anticipated.	
Recommendations	•	Nil	

4.4 Earthquake Risk

Earthquake Risk is dependant on the proximity to the active earthquake areas, mainly in the Wheatbelt, the soil types and the types of construction. Wet unconsolidated sediments carry the highest risk.

The risk has been defined by Geoscience Australia and is based on *AS 1170.3:1993*. See also Sinadinovski, 2005, *Earthquake Risk IN Natural Hazard Risk In Perth Western Australia, Australian Government.*

The winter wet soils are more susceptible than dry ridge soils of higher elevations in the south.

The soils on the ridge provide good foundations when correctly filled and are the same risk as those of nearby dwellings and locations on lower lying sands. Risk in this area can be mitigated by the design and construction of foundations, and is covered under Foundation Stability.

The potential for ground vibration on the lower water logged area may need to be considered during the design of footings, and included within foundations and structural stability as is normally the case on soils such as this which are common in Albany.

The lower lying more susceptible soils are excluded from the developable area, as all building envelopes are located on the slightly elevated better drained land.

Earthquake Risk Identified and Recommended Management				
Earthquake	•	Covered by the considerations in Foundation Stability and the recommendations for the developable area. The soils and land capability are similar to those on the already subdivided nearby lots on which dwellings have been constructed.		
Recommendations	•	Use normal testing, design and construction for soils.		

4.5 Acid Sulfate Risk

Acid Sulfate Soils can potentially form under reducing conditions when there is a source of carbon and a source of sulfur (normally from sea or saline water). Micro-organisms play an important role in reducing the sulfates within the sediments to form the iron sulfide. It is a natural phenomena, that only becomes an issue when the sulfidic materials are exposed to the atmosphere through disturbance.

Potential acid sulfate conditions most commonly form under current or past estuarine conditions, peaty conditions. The soils most at risk are normally saline/estuarine soils, gley soils, peat and some organoferricretes. The conditions may also result from weathering of some geological formations and situations which contain sulphides but these rocks are not present locally.

Materials at risk under reducing conditions are normally grey in colour or have been grey with no yellow brown or red brown iron oxides. When exposed to the atmosphere there is a change to brown iron oxides, with yellow jarosite and other alteration minerals that are distinctive.

Overall, at risk areas are geologically a minor occurrence, but in some situations can be important, and lead to acidic polluting conditions developing.

Acid sulfate only becomes a potential risk when a number of circumstances are present.

- There is rock, soil or regolith present that is carrying sulfides.
- Sulfide carrying materials from below the water table are to be exposed to the atmosphere.
- Excavation below the water table is to be carried out exposing the sulfide carrying materials to oxygen in the atmosphere.
- Dewatering of the sulfide carrying materials is proposed, exposing them to oxygen.
- Exposure of peat or organoferricrete materials, that were permanently under reducing conditions, to the air.

Planning Bulletin Number 64, Department of Environment Guidelines, the Acid Sulfate Soil Management Advisory Committee NSW, 1998, Acid Sulfate Manual provides the most information on recognition and mitigation of potential acid sulfate conditions and this has been incorporated into the Queensland Guidelines. Definitive survey procedure is contained in DWER 2013, Identification of Acid Sulfate Soils.

This documentation forms the basis for much of the assessment procedures in Australia, including those adopted by the Western Australian Planning Commission and the Department of Water Environment Regulation.

The key step in identifying acid sulphate conditions is a geological and regolith examination of the locality to firstly identify the any risks, chemical pathways and potential management.

Secondary to detailed field assessment, is the testing of the materials. There is no simple test for acid sulphate conditions and the tests used frequently give false positives. Therefore sample and laboratory testing should only be conducted to check, or quantify field observed risks.

One of the best methods of preliminary assessment is to collect samples and leave them exposed to the atmosphere for one month. The pH of the sample is to be tested immediately on exposure and at the end of oneweek to a month for changes to pH.

Laboratory testing is conducted using oxidation to speed up the natural oxidation of the soils on exposure to the atmosphere, using of H_2O_2 or another oxidising agent. The testing then tries to quantify the amount of oxidation and acid development.

The geology and regolith of the local have been assessed extensively and the soil test holes and soils examined by Lindsay Stephens of Landform Research to assess any likely racid soil potential, from hand assessment and composition.

WAPC Planning Bulletin Number 64, identifies the whole area as "buff coloured" on WAPC Planning Bulletin 64; "Low to no risk of AASS and PASS occurring generally at depths of >3m" for all the elevated ground. The tidal area of the King River is listed as "red" but this does not form part of the development. Low areas adjacent to the King River are shown as yellow, "Moderate to Low risk (yellow) of acid sulfate conditions (AASS and PASS) occurring below 3 metres depth".

The WAPC mapping is broad scale from aerial photography and contours and does not take into account local mapping.

The site has been inspected by Lindsay Stephens of Landform Research on many occasions Based on the materials present, the regolith and the site conditions, none of the risk factors for acid sulfate are present.

The winter wet areas mostly dry out in summer which enables any reducing conditions and minerals to oxidise. The wet areas in this location slope and have through flow soil moisture and do not allow the accumulation of organic matter which would indicate and be necessary for acid sulphate conditions to develop.

The winter wet areas are most likely to be filled if developed and not be subject to deep excavations.

No at risk areas or "suspect" minerals or conditions have been identified during the site investigations or soil auger holes.

Acid Sulfate Risk Ider	Acid Sulfate Risk Identified and Recommended Management			
Acid Sulfate	•	 WAPC Planning Bulletin Number 64, identifies the whole area as buff coloured, Low to No risk of acid sulfate conditions (AASS and PASS) occurring below 3 metres depth. The soils and land capability are similar to those on the already subdivided lots on which dwellings have been constructed. No risk areas have been identified. No deep excavation or additional drainage is required. The building envelopes are located on elevated well drained land. 		
Recommendations	•	Nil for development area.		

5.0 WASTE WATER – CAPABILITY AND NUTRIENT ASSESSMENT

5.1 Geotechnical Capability for Waste Water Disposal

The Capability of a Site for Waste Water Disposal depends on a number of geotechnical factors. These include the soil type, depth and permeability of the soil, depth to impermeable layer, depth of perched or other watertables and potential for flooding or waterlogging. Assessment should be made from field investigations because the whole soil profile and local geology can determine the likely path of the waste water.

Australian Standard 1726 (2017) for Geotechnical Investigations permits interpreted assessments. Interpreted assessments are an essential part of site evaluation because it is crucial to know how representative the test hole is and what conditions are indicated by the colour, nature, texture and mode of formation of the soil profile. These observations suggest acceptable infiltration ability.

Interpreted information of water tables from soil profile and geomorphological examination is an important part of the assessment process because conditions vary from year to year and tests conducted in some well below average years may not reflect potential impacts in excessively wet years. The assessment should also take into consideration the potential for soils conditions to be changed through water loading and earthworks as a result of developments.

The mineralogy of the soil profiles can be determined by visual and field examination, with the species and form of iron oxide being particularly useful at providing data on soil moisture conditions through the seasons. Natural site vegetation species are also useful as indicators of historical seasonal soil moisture conditions.

The Government Sewerage Policy, Department of Health Guidelines for the Reuse of Greywater in Western Australia, to Department of Health, Code of Practice for the Design, Manufacture, Installation and Operation of Aerobic Treatment Units (ATUs); Serving Single Dwellings, Health (Treatment of Sewerage and Disposal of Effluent and Liquid Waste) Regulations 1974, AS/NZS1547 (2012) all provide input into the acceptable site characteristics. The Health Act Regulations require 1 200 mm of free draining soil beneath waste water disposal areas.

The types of waste water systems all have different installation requirements and potential impacts, and can be selected to alleviate adverse site conditions. Whether a conventional septic system or nutrient or composting waste water system is used will depend on the site conditions.

The capability for waste water disposal is independent of lot size. It is no different geotechnically for a waste water system on a 2 000 m^2 or 2.0 hectare lot in terms of performance. There is a difference in the nutrient loading per hectare.

The soils are common in the Albany area and are similar to those in the local area.

Soil Type

The soils are locally common and are similar to those in the adjoining subdivisions.

The sandy upper surface horizons have low phosphate retention depending on the level of iron sesquioxides and clay, but the subsoils are silty loams and clay loam/silt with the clay content and presence of minor ferricrete providing good phosphorus retention.

Conventional septic systems are not acceptable in the local area because of the potential for elevated water tables and policies to protect the Oyster Harbour.

Effluent disposal areas for most nutrient adsorbing waste water systems need to be 500 mm above temporarily water logged areas to comply with Health Department requirements, and 1,200 mm above any impermeable clay layer.

It should be noted that Filtrex are approved by the Health Department to be installed where a separation of 250 mm to the water table applies.

A suitable system will be selected by house holders during the application stage for dwellings and must be approved by the City of Albany. These include the type of waste water system to be installed and the provision of sand fill and amended soils to form an acceptable waste water disposal area.

The use of greywater recovery systems, which treat the black water separately and use the greywater for subsurface irrigation of plants, are effective and water saving.

Waterlogging

Some low lying areas are subject to winter waterlogging because the precipitation exceeds the current drainage or infiltration capacity of the soils in winter.

These areas have been excluded from the building envelopes.

Water Table

Detailed site investigations were conducted on 23, 24 and 25 January 1997, as part of a study for a larger subdivision area when over 100 hand auger soil test holes were sunk, the soils were assessed and the flood potential investigated.

Subsequently additional soil test holes were conducted by Wood and Grieve on 16 October 1998, which refined the groundwater elevations, and as a result the subdivision guide plan was approved.

The building envelopes are elevated and comply with the separations of 500 mm to the highest known water tables, based on field mapping and the soil test holes.

In order to check whether the land can support this level and type of development a site study was completed by Lindsay Stephens of Landform Research on 3 November 2017 when further soil test holes were excavated to up to 1.8 metres on all lots to be subdivided.

It should be remembered that each of these lots is currently approved for development of one dwelling with associated on site waste water disposal and all that was being assessed is whether a second dwelling could be constructed on each lot.

The elevations of the water tables are shown on the attached soil test hole logs. All proposed lots have locations where the water table is well in excess of the generic 0.5 metre separation to the highest known groundwater elevation. This, combined with the ability for waste water systems to be constructed, demonstrate the soils on the building envelopes meet the separation requirements.

Setbacks from Water bodies

The Government Sewerage Policy provides guidelines on the setbacks required from water bodies, with which this proposal complies for alternative waste water systems.

It is noted that Water Quality Protection Note 70 (DWER 2016) recommends a separation of 100 metre between waste water disposal and a watercourse. The subdivision is consistent with this guideline.

The building envelopes comply with these guidelines and the King River is already provided with a foreshore reserve.

The building envelopes are adjusted to provide a 100 metre separation to the watercourses and the King River. The 100 metre line is shown on the Structure Plan as the red dotted line. The exceptions are proposed Lots 4, 8 and 9 all of which have a portion of the proposed building envelope located outside the 100 metre separation line where waste water can be disposed to.

The 100 metre setback is also consistent with the 100 metre recommended setback in the 2016 Draft Government Sewerage Policy.

Infiltration results

No infiltration tests were conducted on site. All surface sands are permeable and the underlying sand clays and clay sands are slowly permeable.

Most soil, apart from the gravel areas, has a minimum of 500 mm sand over the loam – clay. The loam – clay is slowly permeable. See the soil test holes.

Alternative/Nutrient adsorbing waste water systems spread the waste water loading over a larger area and are designed to overcome any localised lower infiltration rates and provide safeguards with the quality of waste water in terms of microbial and nutrient content to ensure that health and environmental impacts are negated or minimised.

Alternative/nutrient adsorbing (aerobic, adsorbing) effluent disposal systems are recommended and require a waste water loading not exceeding 10 litres/m²/day.

Waste water should be disposed of into a well designed waste water disposal area to enable the waste water to infiltrate into the natural soils and not be able to move laterally and short circuit the disposal area. When this is undertaken good nutrient retention can be achieved. The Local authority is required under the Health Act 1911 to oversee and approve waste water disposal; in this case to the Health Department Guidelines 2001 for ATU's.

The use of greywater recovery systems, which treat the black water separately and use the greywater for subsurface irrigation of plants, are effective and water saving.

Soil permeability tests were not conducted because the soils are sand and obviously of high permeability.

Geotechnical Assessment for Waste Water Disposal and Recommended Management				
Waste Water Disposal	 The building envelopes are suitable for alternative or nutrient adsorbing waste water systems. 			
Recommendations	 Waste water disposal systems should be installed according to the; Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974 – Health Act 1911, Department of Health, 2001, Code of Practice for the Design, Manufacture, and Operation of Aerobic Treatment Units Servicing Single Dwellings Government Sewerage Policy. Grey water disposal systems are acceptable with the greywater systems installed to the Department of Health Greywater Guidelines. 			

5.2 Nutrient Management

A change in land use may alter the Nutrient Input and Management patterns and loadings.

Changed agricultural regimes and more intense development may lead to increased nutrient loading. The pattern of this loading and the ability of the soils to accept the loading depend on many factors, such as the type of land use, lot size, type of waste water system, type of crop, nutrient application rates, soils, depth to groundwater, flow paths of surface and groundwater, permeability of the soils and underlying geology.

The various Government policies and regulations are designed to ensure minimisation of the risk of nutrient export so in many cases compliance with these guiding documents is all that is required. The guidelines take into consideration the soil characteristics as well as setbacks from wetlands and water bodies.

The type of waste water system and its installation can be used to ameliorate any potential problems.

A site specific consideration of the in ground behaviour of phosphorus, nitrogen and microbial inputs is undertaken as outlined below to ensure that nutrient impacts from waste water disposal can be effectively managed.

Phosphorus is the main nutrient implicated in algal blooms in waterways. Nitrates are normally taken up by vegetation, denitrified by bacteria under anoxic soil conditions or lost through volatilisation of ammonia.

Surface water from the site drains to ultimately end up in Oyster Harbour.

The nutrient management issues for rural living lots relate to waste water disposal and gardens and are not dependant on lot size. If stock are retained they may also have an impact on nutrient loadings.

As the proposed building envelopes comply with the separations to the water tables and the soil geotechnical capability, the issue then becomes the potential for nutrient to impact on the soils and waterbodies.

Nutrient Loadings and Stocking Rates

Nutrient Management encompasses the management from waste water disposal and land uses. Nutrient management may need to change in order to sustain a new land use. There may also be opportunities to improve the management of nutrients from current land uses.

The management of nutrients is normally linked to other environmental and management issues such as revegetation and the treatment of stormwater.

• Current Loading

In recent times the land has predominantly been used for horse agistment and some cattle grazing. Currently cattle graze on the site and there are several rural living lots plus the chalet landuse.

Existing potential nutrient export comes from the washing of fertiliser, soil particles and nutrients predominantly into the soils. Because of the sandy permeable nature of the upper soil horizons there is potential for runoff from wet and waterlogged ground.

In summer cattle spend most of their time on the green pasture and any nutrients are therefore potentially concentrated and/or lost with autumn flushes of surface and shallow groundwater in potential wet areas. The worst time for this export is during winter when the soils are wet.

The presence of dung beetles can increase the rate of nutrient recycling and thus reduce the potential for nutrient export particularly during the moist months.

Current stocking rates for arable soils of the site are estimated to be 15 DSE or 1.5 adult cow per hectare. (1 breeding cow equates to 8 - 16 sheep depending on whether N or P are compared).

This equates to 15 DSE (dry sheep equivalents) for dry pasture and where limited supplemental feed is supplied. With a current average stocking rate of 15 DSE, the estimated nutrient loading when fully stocked with equivalent numbers of stock could be 86.4 /N/ha/year and 26.4 kg/P/ha/year (Van Gool et al, 2000).

This applies to the cleared and cultivated/grazed land only and not to the small amount of remnant vegetation in the central south.

Current potential nutrient export comes from the washing of fertiliser, soil particles and manure along drainage lines. The worst time for nutrient export is during summer storms, during the first autumn flush and in winter in central parts when the soils are saturated.

Phosphorous is the main nutrient implicated in algal blooms in waterways. Nitrates are normally taken up by vegetation, denitrified by bacteria under anoxic soil conditions or lost through volatilisation of ammonia. Considerations of nutrient levels and behaviour are discussed in Albany Waterways Management Authority, 1994.

• Proposed Land Use - Rural Living

With subdivision, lot sizes will range from around 0.4 hectares to 1.3 hectares. As the subdivision is approved the only changes relating to this proposal are the creation of an additional 13 lots over the existing subdivided land.

The chalets are present on site and their nutrient management or impacts will not change. They are located in the remnant vegetation at a low nutrient loading for that portion of land.

Data on nutrient inputs is taken from Van Gool D, K Angell and L Stephens, 2000, *Stocking Rate Guidelines for Rural Small Holdings Swan Coastal Plain and Darling Scarp*, Department of Agriculture, Miscellaneous Publication 02/2000, Legislative Assembly, 1994, *Select Committee on Metropolitan Development and Groundwater Supplies, Western Australia*, Dames and Moore, undated, *Draft nitrate management in Jandakot UWPCA*, Water Authority of Western Australia.

From the above references a typical lot with a conventional septic system, small garden and lawn, dog and cat plus some chickens has a nutrient loading of 31 kg/N/year and 9.6 kg/P/year. This will be added to the soil on the building envelope. A conventional septic system releases 18 kg N and 5.5 kg P per year as a point source. The other nutrients are spread more broadly across the soil surface.

For a nutrient adsorbing waste water system (ATU) a significant proportion of the phosphorous and nitrogen is removed within the waste water disposal area and is not directly added to the soil, reducing the overall soil input to 19 kg/N/year and 4.6 kg/P/year per lot.

A horse has a typical loading of 11 kgP/year and 60 kg/N/year. Horses and other stock will require management of wastes. Best management of manure is outlined in Van Gool D, K Angell and L Stephens, 2000, *Stocking Rate Guidelines for Rural Small Holdings Swan Coastal Plain and Darling Scarp*, Department of Primary Industries and Regional Development (DPIRD).

Land Capability - Geotechnical Assessment Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, WILLYUNG, ALBANY

Possible lot size and activity	Nitrogen loading per hectare	Phosphorous loading per hectare	Likely nutrient scenario
Estimated average current stocking at 15 DSE per hectare	86.4 kg/N/ha/year	26.4 kg/P/ha/year	Unlikely to be nutrient export on gravel based soils. Probable nutrient export from winter wet soils.
Likely nutrient input after subdivision to 2.0 hectare lots. Nutrient adsorbing or alternative waste water system. Small garden, small fertilised lawn, dog, cat, 6 fowl or additional garden. No stock.	9.5 kg/N/ha/year (No stock) 39.5 kg/N/ha/year (1 horse)	2.8 kg/P/ha/year (No stock) 8.3 kg/P/ha/year (1 horse)	Lower nutrient loading. Significantly reduced nutrient export risk. A horse will add an additional 60 kg/N and 11 kg/P per year. The nitrogen will be readily denitrified on the winter wet soils and phosphorous levels will be similar to the current impact.
Likely nutrient input after subdivision to 1.0 hectare lots. Nutrient adsorbing or alternative waste water system. Small garden, small fertilised lawn, dog, cat, 6 fowl or additional garden. No stock.	19.0 kg/N/ha/year	5.6 kg/P/ha/year	Lower nutrient loading. Significantly reduced nutrient export risk. A horse will add an additional 60 kg/N and 11 kg/P per year. The nitrogen will be readily denitrified on the winter wet soils and phosphorous levels will be similar to the current impact.
Likely nutrient input after subdivision to 0.5 hectare lots. Nutrient adsorbing or alternative waste water system. Small garden, small fertilised lawn, dog, cat, 6 fowl or additional garden. No stock.	38.0 kg/N/ha/year	11.2 kg/P/ha/year	Lower nutrient loading to rural land, if no stock are permitted, and a similar nutrient loading to 2.0 hectares lots that retain one horse.

Table 5 Typical Nutrient Loading from Land Use Changes

- A variety of average lot sizes and stocking rates are used to provide an indication of nutrient inputs prior to and following subdivision. Horses are used as a likely example.
- The calculations above are made on the basis of the total area averaged across cleared land and remnant vegetation.
- It should be borne in mind that the nutrient loading does not equate to the risk of nutrient export. It
 forms a part of the export risk which also depends on the nature of the nutrient loading, its
 location, the behaviour of the soils and the climate.

• Fate of Nutrients

Nutrient Management encompasses the management from waste water disposal and land uses.

The ability of soils to adsorb phosphorus, reduce nitrogen and inactivate microorganisms is important.

The main issue with effluent disposal from dwellings, is nitrogenous and phosphate compounds together with organic matter or BOD. This could be released by animals, contained in waste water or introduced in biological matter.

Phosphorus

Phosphorus is the main nutrient implicated in algal blooms in waterways and therefore it is important to limit its loss from the site. Phosphorus is capable of being stored in the basal muddy sediments of water bodies. From there the phosphates are released over time and provide nutrient to fuel algal blooms. In this case phosphorus addition to the soils is the issue.

Phosphorus is readily adsorbed onto clay and sesquioxides of the subsoils, gravels and yellow sands. Calcareous soils and calcretes retain phosphorus as apatite. The soils on site, with their sand over clay sand and sandy clay subsoils have a high risk of nutrient loss in solution from the saturated leached surface sands but when the waste water is contained in the subsoils or nutrient adsorbing waste water systems the risk is low as phosphorus is retained.

On the other hand the weak ferricrete layers that often occur at the sand/underlying yellow silt clay interface typically have very high capability for phosphorus retention as shown by Lantzke 1997, *Phosphorus and nitrate loss from horticulture on the Swan Coastal Plain*, Department of Agriculture Miscellaneous Publication 16/97.

Phosphate Retention (PRI) can be a useful indicator, but the nature of the analysis can understate or overstate the field behaviour. Some soils theoretically can have good phosphate retention characteristics, but the behaviour of the waste water in the field may negate these characteristics. For example particles larger than 2 mm are sieved out prior to analysis and a gravelly sand may therefore have a lower PRI than the field reality. On the other hand clay may have a very high PRI but may not be sufficiently permeable for the waste water to penetrate.

Because of the low phosphate retention capability of the sandy upper soil horizons, phosphorus adsorbing amended soils are used for the waste water disposal area of alternative waste water systems.

Therefore on this subdivision, whilst the soils can lose phosphorus under natural conditions from stock, with nutrient adsorbing waste water systems the loss is minimal to nil unless the systems fail, and it is anticipated that the nutrient loadings will drop as a result of reduced stock as shown in the nutrient loading table above.

Some indication of the improvements to the quality of the waste water leaving the waste water disposal area of nutrient adsorbing waste water systems can be shown from contacts with Ecomax and Filtrex. Ecomax reveal that their unit provides for 95% phosphate adsorption typically present exiting the system to enter the natural soils. Research by Filtrex has found that phosphate can reduce to less than 1 mg/L at the edge of the waste water disposal area, for at least ten years (Filtrex 2009).

The reduced phosphorus from alternative systems when compared to conventional septic systems is shown by the Department of Health Approved Treatment Units where all units are listed as being capable of removing over 50% of the phosphorus and most are capable of removing over 97% of P depending in the unit chosen.

As alternative waste water systems are proposed, phosphorus adsorbing amended soils (PRI>20) are required for the waste water disposal area. These systems are nutrient adsorbing, and designed to adsorb all or almost all the phosphorous released in waste water.

Nutrient adsorbing or alternative waste water systems spread the waste water over large areas through irrigation or by the use of amended soils that have high phosphate retention capability. Phosphorus adsorbing amended soils (PRI>20) are required to be used for the waste water disposal area of alternative waste water systems. These systems are designed to adsorb all or almost all the phosphorus released in waste water.

The adsorption of phosphorus occurs at the outlet of the system, and does not take into account phosphorus uptake by soils and plants, Even soils with a PRI of 1.5 will adsorb all the phosphorus when the 100 metres minimum travel paths through the soils to the closest water bodies. At PRI 1.5 each cubic metre of soil is capable of adsorbing 2.25 kg P. Allowing for only a 1 metre wide flow path, the minimum 100 travel distance will be capable of adsorbing 225 kg P or the total phosphorus released from well over 100 years even being very conservative. In reality with the larger flow paths the phosphorus will probably never reach any waterway.

Gerritse 2002 provided PRI for soils in the King River and Lower Kalgan catchments. The lowest PRI was 8 with a surface sand of "deep sand – podsol" having a PRI of 0 but the subsoil had a PRI of 390.

Therefore the risk from phosphorus is therefore not a significant risk from alternative waste water or nutrient adsorbing systems. These reductions are in phosphate export risk are in line with Government Policy.

Nitrogen

Nitrogen is a prominent part of living matter and is constantly recycled through the organic matter and the atmosphere.

Nitrogen is also held within the soil organic matter and some ions are attached to clay particles. When organic matter breaks down or fertiliser is applied and not taken up by plants, nitrogen is converted to ammonia or rapidly converts to nitrite and then nitrate under the influence of oxygen.

The nitrogenous products are taken up by vegetation, denitrified by bacteria under wet and anoxic soil conditions or lost through volatilisation of ammonia or the conversion of ammonia to soluble nitrogenous ions.

Nitrifying bacteria are widely present in soil and obtain their carbon from $C0_2$ and energy from the oxidation of NH_4 or $N0_2$ to $N0_3$. Denitrifying bacteria on the other hand reduce $N0_2$ and $N0_3$ to gaseous N_20 and N_2 which is lost to the atmosphere.

Soil microbes rapidly colonise the interface where waste water contacts the soil, with small amounts of organic matter at the interface providing the energy to sustain the microflora. Nitrates are normally removed by soil micro flora under anoxic conditions in the soils including leached white sands. The microflora remove the oxygen to leave nitrogen gas which is lost to the atmosphere. Inorganic nitrogen can also attach to clay particles.

Nitrogen is not generally responsible for algal blooms in freshwater environments, but high levels of nitrogen can affect the health of saline water bodies.

Nitrogen loss relates to retention times within the soil and microbial activity.

The removal of nitrogen is related to the oxygen conditions of the soils in addition to the microbial material present. The ammonium compounds that exit the two tanks of the waste water system are normally high in ammonia and nitrite and lower in nitrate. With exposure to oxygen the ammonia and nitrite are converted to nitrate under the influence of nitrifying bacteria. The nitrate is then stripped of oxygen by microflora, in reducing conditions and particles in the soil, in the presence of organic matter. This converts the nitrate to nitrogen gas which is lost to the atmosphere. This occurs in all soil types and is independent of the soil type, and depends on soil oxygen levels and to a lesser extent the nature of the soil particles.

Many studies, for example Dawes and Goonetilleke, 2001, have found that nitrogen is readily stripped from waste water released from a septic system to drainage trenches. For example on a sloping sandy loam site in Brisbane the water entering the trenches had a concentration of 171 - 190 mg/L N but within 1 metre of the last trench the nitrogen concentration had dropped to 1.7 to 3.7 mg/L.

Gerritse et al, 1995, recorded a total of 140 mg/L nitrogen (NH₄ - 100 mg/L and N0₂ - 40 mg/L), exiting a leach drain. After a travel distance through shallow soils of 1 metre this had dropped to between 20 and 100 mg/L, and by 3 metres the total nitrogen had dropped to 0.03 to 0.2 mg/L. When loaded with nitrogenous compounds the microflora of soils quickly adjusts to the loading, by increases in the number and type of bacteria. For example, under anaerobic conditions with nitrogen loading, the denitrifying bacteria increase significantly. This can be expected to occur in soil aggregates within the top 2.5 metres of soil, which is regarded as the active bed and root zone for the waste water disposal areas.

The increased effectiveness of nutrient adsorbing waste water systems is shown by research by Filtrex which has found that nitrogen is reduced by 75% at the edge of the waste water disposal area, (Filtrex, March 2009) and then further reduced by the soils.

Lantzke 1997, found high levels of denitrification in moist leached sands on the Swan Coastal Plain indicating that even leached sands can provide good denitrification.

The treatment and loss of nitrogen does not depend on soil type but rather the waste water contacting soils in which microbial material can develop in reducing conditions.

All soils will work, even leached silica sand, as long as they are relatively permeable, which the soils on site are. The critical factor is retaining water in the soil or on site for as long as possible. With the proposed lots and loam soils, waste water and nitrogen is likely to be retained on site.

When loaded with nitrogenous compounds the microflora of soils quickly adjusts to the loading, by increases in the number and type of bacteria. For example, under anaerobic conditions with nitrogen loading, the denitrifying bacteria increase significantly. This occurs in soil aggregates within the wetter soil horizons, which is the active bed and root zone for the waste water disposal areas.

The issues relating to nitrogen removal from waste water are the same and are irrespective of lot size provided it is above the minimum of $2\,000\,\text{m}^2$ which the approved lots are. Within the waste water disposal bed soil bacteria convert nitrate to nitrogen gas which is lost to the atmosphere.

Even so the total nitrogen loading will reduce. The likely scenario is for 1.0 hectare lots on which an average of 0.5 horses per lot are retained and nutrient adsorbing waste water systems, or the potential for lots down to 0.4 hectares with no stock. See the nutrient loading table above.

The increased effectiveness of nutrient adsorbing waste water systems is shown by research by Envirosafe which has found that nitrogen is reduced by 75% at the edge of the waste water disposal area, (Jo Hopley Envirosafe, 31 July 2002) and then further reduced by the soils.

The dentrification provided in the alternative systems when compared to the loadings is shown by the Department of Health Approved Treatment Units where all units are listed as being capable of removing over 50% to over 97% of N depending in the unit chosen. Those reductions are achieved at the edge of the nutrient adsorbing system.

The critical factor is retaining water in the soil or on site for as long as possible. With the proposed lots and gentle slopes, treated waste water will be retained by dense pasture and slow lateral flow and therefore minimum travel distances of 100 metres through soils after leaving the edge of the waste water system

The risk of nitrogen loading or leaching to a waterbody is therefore not regarded insignificant to nil.

Microbial Purification

Microbial material from stock or waste water systems can present a health hazard unless the material is deactivated by normal soil microbial organisms. Microbes could consist of thermotolerant bacteria, viruses and other organisms. For deactivation to occur sufficient dilution and retention time in the soils or other media are required.

Microbial purification is an important part of effluent disposal to ensure that all fine organic matter and micro-organisms are broken down.

Soil microbes require a minimum of 5 metres of sandy soil or less (down to 1 metre) for soils of lower permeability such as loams. (Wells and King, 1989).). The longer a soil retains waste water the better the microbial purification. Organic matter builds up in the soil and supports microbial activity which deactivates and destroys thermotolerant and other organisms.

Nutrient adsorbing waste water systems are designed to provide for waste water leaving the systems as "of a standard suitable for irrigation" (Health Department 2002), which indicates the low level of microbial and organic matter entering natural soils after leaving the waste water disposal areas. This means that nutrient adsorbing waste water systems can be used to overcome potential deficiencies in the soils. Systems disposing to the ground surface require chlorination of the treated waste water which reduces the microbial risk of that type of water disposal.

In comparison to conventional septic systems, the Health Department, *Specification for Aerobic Treatment Units (ATU'S) Serving Single Households* (Health Department), shows that the average BOD released from a nutrient adsorbing system should be <20 mg/litre, prior to on ground disposal. The systems used on this site may not be aerobic in nature.

The health risks will be the same for each waste water system irrespective of lot size and depend on the capability of the soil and the installation of units rather than the lot size. For example if the soils are suitable and the waste water treatment units are installed correctly the health risks from failure will be similar irrespective of lot size. The only variation will be that on smaller lots there are more units to be maintained and there is a greater chance of one not being maintained to standard. This risk is minimised by the requirements for service contracts that apply to nutrient adsorbing waste water systems.

The Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974 – Health Act 1911 require the Local Authority to approve the construction or installation of approved systems in Part 2 of the Regulations, which provides for some control.

The risk from microbial purification depends on the installation and maintenance of the waste water systems rather than lot size. All lots are more than double the minimum suggested by the Government Sewerage Policy, in better soils, therefore there are not considered to be any inherent microbial risks associated with the soils on site.

The microbial purification capacity is dependent on the waste water system used, not the lot size. It either works and is no issue or it does not. For the same reasons that apply to nitrogen and phosphorus loading the microbial loading will reduce.

Nutrient adsorbing systems are designed to reduce the thermotolerant coliform bacterial down to an average of <10 organisms /100 litres and BOD (organic matter) to < 20 mg/L on average.

For comparison, with conventional septic systems the microbial purification applies to raw waste water with levels typically of BOD at up to 300 mg/L. The use of nutrient adsorbing waste water systems will result in greatly reduced microbial loading on soils.

On this site the sandy soils with gentle slopes and dense pasture will retain the waste water through slow lateral flow rates allowing large time frames for adequate microbial purification. This is particularly relevant when the quality of the water exiting the system is considered.

Therefore microbial contamination is not considered a problem on a well installed and maintained waste water system.

Nutrient Loading and Recommended Management				
Waste Water Loading	• The soils and land capability are similar to those on the already subdivided lots on which dwellings have been constructed locally.			
	Nutrient loading will reduce with subdivision.			
	• Waste water disposal can comply with all Government Guidelines and Policy.			
	• Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974 – Health Act 1911.			
	• Specification for Aerobic Treatment Units (ATU's) Serving Single Households, Health Department of Western Australia 1992 or superseding document.			
	 Draft Guidelines for the Reuse of Greywater in Western Australia, Health Department of Western Australia 2002, or superseding document. 			
	 The use of nutrient adsorbing waste water systems is recommended. 			
Nutrient Export	• The soils on site are highly capable of accepting the nutrient loading on lots down to less than 0.4 hectare lot sizes proposed bearing in mind the type and depth of soils and distance of lateral flows.			
	As nutrient loading is reduced there is reduced risk of export.			
Recommendations	 Installation should be in compliance with Guidelines and Regulations for waste water systems. See previous section on Geotechnical Assessment for waste water disposal above. It is recommended that stock not be permitted on lots smaller than 1 hectare. 			

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6.0 WATER MANAGEMENT

6.1 **Purpose of Water Management**

Water management relates to all aspects of water on site but in particular, for this subdivision, the flood levels of the King River.

With large rural residential/special residential lots, other issues such as road and development drainage are less important and are readily managed through normal construction as they have been on the adjoining subdivisions and developments.

Water Management normally aims to;

- Protect water quality,
- Protect infrastructure from flooding and inundation,
- Minimise runoff,
- Maximise local infiltration,
- Use natural drainage features,
- Minimise changes to water balance,
- Integrate stormwater treatment into the landscape,
- Convert drains to "naturalised" streams.
- Maintain water balance both on site and offsite.

Many of these issues were addressed in the Geotechnical and Land Capability mapping, the selection of building envelopes, lot sizes and the use of alternative – nutrient adsorbing waste water treatment systems.

For example in a rural residential/special residential subdivision where the roads are not kerbed and dwellings either collect roof water for use or allow water from hard surfaces to infiltrate to pasture or gardens, and most of the above do not apply, then there may be no water to be dealt with as all surface water might infiltrate into the soils through swale drainage. This can apply even though water loading may increase slightly through the use of scheme water.

As noted above the item that could potentially carry the greatest risk is flooding by the King River.

6.2 Watercourses and Drainage

Surface Water

The main hydrological features are the King River and Willyung Creek to the south of Willyung Road at this location. There is also a small drainage line that drains to King River in the central north of the site.

These drain to the east through the King River to Oyster Harbour.

King River has a steep sided valley dropping from the alluvial terraces along its boundary. There is virtually no flood plain and none adjacent to the subject land.

On the other hand Willyung Creek has an extensive flood plain to the east of the subject land.

Apart from the streams, surface water run off is not common because of the porosity of the soils. Surface water only exists where perched water tables on the terraces touch the surface in winter and where water logging occurs on the flood plain. Perching of the water tables occurs over most of the site but the elevation of the perched water table varies.

Surface water may also occur during flooding.

Willyung Creek has a catchment of about 35 km², the north western creek a catchment of 2.5 km² and the King River a catchment of 402 km². The two smaller catchments are cleared, with the King River 83 % cleared in 1987 which means that flood flows are likely to rise and fall quickly, although the nature of the north western creek and King River mean that the stream flows will be slightly more spread out than Willyung Creek.

As outlined under changes to recharge below there will be no significant difference to recharge and therefore seepages to watercourses.

Flood Levels

The smaller drainage lines have relatively short lengths but large catchments which means that a heavy rainfall event results in the rapid rise and corresponding fall in the stream levels. The King River is longer and therefore rises over a period of time and falls at a slower rate. Flood levels are determined by the rainfall in the catchment and the timing of the tide in the King River which has the potential to raise the water levels slightly with an incoming tide.

Official flood data was not available for the area in the 1990's from Department of Water Environment Regulation but accurate information was obtained from the owner of Lot 940 in the east of the site, which has one of the earliest houses, in 1997.

There was a flood in the area in the early 1990's that the local residents remember, affecting in particular Willyung Creek. A series of photos was available in 1997 of Lots 940 and 9002 (previously Lot 892), together with water heights on Willyung Creek on the bridge on the eastern boundary of the subject land, and water heights of the King River on Lot 940.

The photos were matched with land marks on the ground and a flood level determined of 5.5 metres on Lot 9002 (previously Lot 892). Lot 940 did not flood in this event apart from a small low pocket in the north eastern corner and the bank of the King River to a depth of about 3.5 metres. In this case it appears that Willyung Creek would have been near the 1 : 100 year flood peak.

The largest recorded flood was in 1927 when the King River entered the dwelling and rose to the level of the piano keys. This would place the flood peak at the house at 5.7 metres.

These flood levels were then matched to the geomorphology of both the King River, the contours and interpreted water flows and volumes determined for the King River and Willyung Creek at several locations upstream by taking cross sectional areas based on the contours mapping for the watercourses.

There have been several smaller but still significant floods in Willyung Creek since 1997.

To assist planning for the City of Albany GHD modelled the flood data for Willyung Creek and determined 1 : 100 year flood levels that matched the verbally noted data provided by local people in 1997.

It is understood that GHD did not take into account flooding of the King River and the potential to back up water in Willyung Creek.

GHD also did not have the benefit of detailed surveys of various private land that has since been commissioned by the landowners to assist the study.

GHD plotted the extent of the flood from their predicted 1 : 100 year flood elevations, based on coarser contour information than is now available. As GHD did not have access to 0.5 metre contour and spot elevations they were not able to determine that the local levee banks along the northern edge of Willyung Creek and King River, which will influence flood paths.

To compare the 1997 data with current data, Lindsay Stephens completed extensive mapping and flood consideration for flood water travelling through the centre of Lots 104 - 105 and 9002 and exiting down the vegetated gullies on Lot 9002 to the east. The data matched the geomorphology and confirmed the 1997 data which was interpreted for both the King River and Willyung Creek.

The GHD data provided a check for the King River data interpreted by Landform Research in 1997. The data for Willyung creek showed that the Landform Research data was between 0.5 and 1.0 metres above the GHD data. The same might apply to the King River which was not modelled by GHD. What was also not modelled by GHD was the King River flooding at the same time as Willyung Creek which if it occurred may raise flood elevations in the lower reaches of Willyung Creek.

Similarly it is noted that the King River is tidal to just downstream of the subject land. A high tide also may not have been modelled by GHD mapping but their mapping was close to the historical 1929 high.

The Landform Research data for 1997 showed an interpreted 1 : 100 year flood elevation of 8.5 to 9.0 metres AHD at the eastern boundary of the subject land, rising to 9.5 metres AHD at the western boundary.

The 9.0 metres in the east is probably a little high because the valley of the King River spreads out on the eastern side of the study site which means that the flood levels will effectively flatten to near the elevation on the eastern side of the wide area where it enters the steeper valley again to the east which constrains the flow and raises the flood elevation. The level of this area is interpreted to be 8.5 metres AHD.

The small tributary in the central north has a small inflow, and most flood potential comes from the back up of water from the King River at around 8.5 metres AHD rising slightly with an allowance for the smaller inflows from the tributary. That is for the small creek line in the central north, a similar 8.5 to 9.0 metres AHD and a little higher in the west of the subject land at around 9.0 metres because the creek is small and the valley wides out to the eastern boundary.

The predicted flood elevations are shown on the attached plan.

The proposed subdivision has been designed the fit with these elevations. The dwelling with the smallest separation is Lot 4 which is similar to the dwelling that is already constructed on Lot 45. With dwellings having at least 300 mm floor elevation higher than the receiving land this provides for around 800 mm of separation to the predicted flood elevation and complies with normal 0.5 metre separation. There is also potential to increase the elevation even more with additional fill or by locating the dwelling at the elevation of the higher land adjacent to the road.

The separation to the conservative 1 : 100 year flood level is shown below. All lots comply with the recommended elevation separation for flooding in the 2016 Draft Government Sewerage Policy.

Lot Number	Predicted flood	Building	Floor elevation	Separation to the
	level (Landform	envelope	of 0.3 m above	predicted 1:100
	Research)	elevation	the land surface,	year flood
	Metres AHD		for surface water	elevation
			protection.	
1	9.5	>12.5	12.8	3.3
2	9.5	>12.5	12.8	3.3
45 existing	9.3	10.5	10.8	1.5
3	8.5	9.5 – 10.5	9.8 minimum	1.3 – 1.8
4	8.5	9.0 – 10.0	9.3 minimum	0.8 – 1.5
5	8.5	>11.0	11.3	2.8

Table 6 Predicted Flood Elevations at Dwelling

Land Capability - Geotechnical Assessment Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, WILLYUNG, ALBANY

6	8.5	>11.0	11.3	2.8
7	8.5	>11.5	11.8	3.3
8	8.5	> 10.0	10.3	2.8
9	8.5	> 13.0	13.3	4.8

The allocated building envelopes are located at the following predicted flood elevations and separations.

Lots 4, 3 and 1 and Bilaboya Place are well above the flood elevations in Willyung Creek at that point of around 7.84 metres AHD (GHD Flood Study 2007).

The predicted flood levels assume that there is no development within the flood way as this will impede the flood, and may slightly raise its elevation at that point, and the development will be subject to potentially significant water erosion in a flood.

The separation levels for other nearby lots such as Lot 3 is greater because at Lot 4 the King River valley widens considerably.

It is felt that the predicted flood elevations are conservative, and are not likely to be impacted by other additional events or occurrences. At this location the River is not tidal and will not be backed up by tides and there are no other tributaries that will cause back up of water. The main tributaries are downstream from the north and the larger Willyung Creek well to the east.

Location of Developments

In order to protect dwellings a number of "good practice" actions are normally provided in flood protection in Western Australia. See CSIRO 2000. In summary these are;

- A flooding 0.5 m allowance is made above the predicted 1 : 100 year flood elevation. This applies to roads, floor elevations and other sensitive structures.
- There should be no construction within floodways. Development can be undertaken with care in the flood fringe provided the development does not lead to rises in the flood elevation.
- Residents are to be provided with permanent access that can be used in times of peak flood.
- Developments are to be located adjacent to land that is not flooded and that has access.
- Developments should not impede the flood flow or lead to rises in the flood elevation.

The subdivision and allocation of building envelopes complies with these "best practise" guidelines. Greenwood Drive, Kelty View, Bilaboya Place and Willyung Road all remain open and well above predicted flood elevations. All building envelopes are located adjacent to the road network for easy access.

Drainage

The best way to assist drainage is to encourage the use of rainwater collection and use for a potable supply or garden watering, and to encourage the disposal of stormwater on each lot through soak wells located in sand fill areas.

The use of rainwater tends to reduce the overall water loading and the soak wells increase the soakage areas and spread infiltration across the Development Area.

This can be further helped by the use of swale drains accepting stormwater from any kerbed roads or roads. Swale drains that include infiltration may negate large surface flows and may not require infiltration basins.

The roads are either already in place or are designed, and on adjoining properties are shown to be working well.

Foreshore Reserves

The foreshore reserves for King River are already in place and are not proposed to be altered. The reserve is marked by the commencement of the remnant vegetation along the river.

As mentioned in Section 5.0 the building envelopes are adjusted to provide a 100 metre separation to the watercourses and the King River. The 100 metre line is shown on the Structure Plan as the red dotted line. The exceptions are proposed Lots 4, 8 and 9 all of which have a portion of the proposed building envelope located outside the 100 metre separation line where waste water can be disposed to. This is consistent with Water Quality Protection Note 70 (DWER 2016) which recommends a separation of 100 metres to the water courses.

Land uses will not change significantly for the cleared pasture land. The only likely change will be the planting of more trees and shrubs on the created lots, rather than pasture and parkland pasture.

Recharge and soil moisture will have increased significantly when the land was originally cleared.

With little change expected to deep rooted species, there are unlikely to be any significant changes to recharge, or soil moisture. If any changes occur they will be a slight drying due to the additional planted deep rooted species.

6.3 Ground Water

Shallow perched winter ground water is common over the lower elevations of the site, mainly in the small creek line valley in the central north. These areas are excluded from the development areas and building envelopes.

The shallow winter soil moisture forms in winter when the overlying sands fill with water and the rate of precipitation exceeds the vertical infiltration rates of the subsoils. On slopes these can form seepages. The dams in the central north reflect these areas.

The large dam on Lot 5 does raise some issues with soil moisture downslope from the dam and it is preferable that the building envelope be located up slope from the dam as shown. Filling of the dam is an option which may be preferred by a future landowner. The location of the prefered effluent disposal system is below the dam as shown.

As outlined under changes to recharge below there will be no significant difference to recharge and therefore no significant changes to soil moisture or the elevations of the water table.

6.4 Changes to Recharge

Recharge is the amount of water that inputs to the ground water table in the soils. As the subdivision will not be connected to scheme water the only water input is a continuation of rainfall, with the only potential changes being related to the changes in the areas of hard stand and the planting of additional trees. There are no changes to the roads or areas of hard road surface.

In turn the planting of additional deep rooted species, particularly trees, will reduce surface water through increased evapotranspiration.

The proposed subdivision, has lots down to 0.4 hectares although counting the remnant forest there will only be 19 dwellings and 4 existing chalets on an area of around 27.8 hectares or a loading of one waste water system per 1.2 hectare.

The only changes to soil moisture from this type of development is the amount of hard stand that will be added

To gain some idea of the changes to recharge, the additional lots are considered. All roads are constructed so their impacts will not change.

Bureau of Meteorology data was used for the rainfall design criteria of runoff from hard surfaces such as roofs.

For pasture, rain falls on the ground and is either lost through evaporation from the soil which normally only occurs from the top 500 mm, evapotranspiration from plants to the depth of their roots with the remainder being added to the water table.

When hard stand is constructed approximately 10% of the precipitation is lost through evaporation from small rainfall events, with the rest captured in rainwater tanks from the dwellings or large sheds. This rainwater is then used in the dwelling and sent to the waste water disposal area or used for gardens.

From brick paving or driveways water from precipitation moves to the edges where it soaks into the soil. The lack of plants on the driveway slightly reduces the water loss.

On the other hand any shrubs and trees planted will result in a slight loss of water through additional evapotranspiration.

In all cases the captured water returns to the soils.

This water balance is outlined below and ends up being neutral or very minor changes. The changes are that less evapotranspiration and evaporation occurs on the hard stand, but this is balanced by the planting of additional trees and shrubs which lose water through evapotranspiration.

Building envelopes

Rainwater tanks will be used on all lots. This calculation uses the total number of dwellings of 19 and the four chalets making 23 for the sake of calculations and illustrate the changes to recharge.

For a dwelling a hard surface area of 350 m^2 is assumed, including the dwelling, driveways, sheds and garages.

To this is added 50 m² of driveway, to make an assumed area of hard surface per lot of 400 m².

The recharge from soils rises because the runoff from the roofs increases and there is no pasture or other vegetation on that footprint to lead to evapotranspiration of the water.

Normal recharge for pasture is assumed to be 40% and recharge from roofs and roads is rated at 90%. That is there will be an additional recharge of 50% for the area of hard surfaces, as a result of subdivision and house construction, because the evapotranspiration of pasture and vegetation is replaced by hard surface.

If rainfall from roofs is retained on lots, either through soakwells or rainwater tanks and on site waste water disposal, there will be no change to the water loading from development.

There may be a small change as a result of reduced evapotranspiration from hard surface areas or increased evapotranspiration as a result of additional tree planting.

If the additional water collected and not soaking into the ground is directed to soils through soakwells, rainwater and waste water the difference in loading caused by reduced evapotranspiration from pasture is 90% - 40% = 50%.

The difference in water loading is;

For each lot at 400 m^2 per lot hard surface;

400 m² x 0.798 m rainfall x 50% change to evapotranspiration = 159.6 m³ or kL (increase) spread over a lot size of 1.0 hectares, which is equivalent to an additional 159.5 mm rainfall added to the soils.

The planting of additional trees and shrubs will occur as demonstrated on developed rural lifestyle lots. Trees and shrubs in a garden are likely to lead to the evapotranspiration of 80% of the rainfall. That is an increase in water use of 40% pasture -20% trees = 20% reduction in recharge.

If the planting of deep rooted trees and shrubs changed the recharge by 20%, by converting pasture to gardens, this would be equivalent to 0.1596 m rainfall. Assuming the total area of shrubs and trees planted on each lot is 1 000 m² the volume of water lost through evapotranspiration will be 159.6 m3 or kL, which is exactly the same as the additional water derived by the construction of the hard surfaces.

Of course each lot will vary in the area of hard surface, the number of trees and shrubs planted, and rainfall will vary from year to year, but overall there will be no significant change to the recharge to soils.

That means water tables are not likely to rise or fall and there will not be a reduction in seepages to watercourses.

Roads

With the existing construction of the subdivision road network there are no proposed changes or additions to roads or the area of road surface. The engineered drainage will therefore not change and there will be no additional water directed to the road drainage.

It should however be recognised that the surface water will have increased in volume when the land was originally cleared so drains are required for the arable land but would not have been required when the site was vegetated with native vegetation.

6.5 Recommendations for Development

- > A 0.5 m flood allowance is made with the building envelopes to be located as shown.
- > There be no construction within floodways as shown on the plan.
- There should be nil or minimal construction of developments that will impede the flood flows on individual lots.

- A form of notification to the lot owners, where a floodway is present, is recommended. This might be a nomination on the title or similar mechanism to inform and protect the floodways based on current predicted levels 1 : 100 flood elevation and updated survey information.
- > The building envelopes be located where placed on the plan for the lots listed above, with waste water disposal areas set back 100 metres from water bodies.
- The minimum floor elevation for the dwellings be as allocated on the attached plan or if changed, a minimum of 1.0 metres above the predicted flood elevation.

These recommendations have been taken into account when designing the current concept subdivision guide plan.

ENVIRONMENTAL ISSUE	MANAGEMENT
Flood risk	 The subdivision guide plan incorporates the flood elevations that have been predicted and calculated. The subdivision guide plan complies with best practise (CSIRO 2000). Bridges should remain low so they do not impede the flood flow and do not form significant visual impact. Place a control mechanism on the land potentially affected by flooding to alert owners to the potential for flooding and to prevent construction of developments that may impact on or change the floodways and flood flow paths and set minimum floor elevations.
Waterlogging	 Occurs on the lower elevations and is excluded from the building envelopes.

7.0 BIODIVERSITY ASSESSMENT and MANAGEMENT

The majority of the site is cleared, with remnant vegetation only occurring on the ridge in the central south that will not be impacted or subject to change, the foreshore of the King River and minor scattered shrubs and trees on the site.

The proposed building envelopes are cleared and the road alignments are either in place or cleared.

Trees on the higher elevations tend to be Marri, (*Eucalyptus calophylla*), Jarrah (*Eucalyptus marginata*) and south coastal *Banksia* Woodland understorey, whereas trees in the wetter sites are almost exclusively *Melaleuca preissiana* with *M. rhaphiophylla* on the wetter areas of the flood plain.

All vegetation has been grazed and the understorey significantly depleted in most places, although the vegetation in the south east is in the most original condition.

The foreshore vegetation on the steep banks of the King River varies from good condition to partially degraded with weed and pasture species present.

King River Foreshore Terraces and Remnant Vegetation

The vegetation along the King River, terraces and flood plain does vary because of changes to the soil moisture availability. The vegetation varies from Low Forest to Thicket depending on the species and structure.

Typical species are Acacia sp, Agonis flexuosa, Banksia seminuda?, Sphaerolobium grandiflorum, Taxandria marginata. Hakea elliptica, Jacksonia sternbergiana, Dasypogon bromeliifolius, Taxandria juniperina, Nuytsia floribunda, Kunzea ericifolia, Astartea fascicularis, Kingia australis, Callistachys lanceolata, Hakea amplexicaulis, Leucopogon verticillatus, Persoonia longifolia, Pteridium esculentum, and Leucopogon propinquus, with Agonis flexuosa, Melaleuca cuticularis, M. preissiana, M. rhaphiophylla and Juncus pallidus occurring in wetter sites.

The dominant vegetation of the cleared areas is scattered low trees and tall shrubs of *Melaleuca preissiana, with M. rhaphiophylla* occurring along the stream lines and in wet sites where the shallow ground water reaches the surface at some time each winter. *Juncus pallidus* occurs as scattered clumps in the pasture where the soil is damp throughout the year.

Fauna

There will be small mammal fauna, birds, amphibians and reptiles in the remnant vegetation but with clearing restrictions the affect on these will be reduced. In addition owners of smaller lots generally plant many tree and shrub species which will help increase the habitat for some species such as birds. The only mammals noted were Western Grey Kangaroos (*Macropus fuliginosus*) and Rabbits.

It has been shown in numerous locations that mammals such as the Quenda, *Isoodon obesulus* can thrive near dwellings provided sufficient thicket vegetation is available and exotic predators are not active.

In any case the species in the King River, is not particularly relevant to this proposal except that any development should not adversely impact on the fauna of the estuary.

Wetlands

There are wet pasture areas but no particular wetlands apart from some wetland shrubs in the north east. No changes are proposed.

Analysis of Biodiversity and Recommended Management					
Remnant Vegetation	No changes to the remnant vegetation are proposed.				
Recommendations	 The larger vegetation remnants are recommended to be retained in conservation areas which is proposed. The style of fences cutting the remnant vegetation should enable the exchange of flora and fauna. Where possible firebreaks are not recommended to cut remnant vegetation. 				

8.0 CAPABILITY FOR CHANGED LANDUSES

The following items are identified as the most likely to impact on the environment. These items can be managed by the implementation of the management recommendations. Other items are unlikely to impact or the impact is regarded as small.

Current Land Uses

The site has been used for grazing and rural living. The land uses are the same as those on the adjoining land, prior to subdivision and development.

A chalet facility is located in a bush remnant in the central south.

The opportunities of the site are;

- The undulating nature of the land surfaces.
- The local views that can be obtained from most parts of the site.
- Proximity to Albany City.
- Setback from existing roads.
- Proximity to existing service centre.
- Ability to have horses on larger lots.
- Adjoin existing subdivided land.

The constraints of the site are;

- The sandy surface soil horizons that have low nutrient capability in some parts of the site.
- Minor winter surface water that lies on some parts prior to effective drainage being implemented.
- Potential flooding from the King River constrains a small portion of the land.

Potential land uses

The soils have a similar capability for dwellings and onsite wastewater disposal to the adjoining developed subdivisions to the east and west.

The most likely potential land uses are therefore special residential in some form.

8.1 Alternative Landuse and Land Capability

Alternative Landuses

The land is proposed for special residential living to complement other such land in the local area with the chalet facility remaining.

Lot Sizes

The size of lots on the cleared land will be mainly related to planning issues. Environmental issues are not limiting. Lot sizes are more related to planning and servicing and drainage.

It is important to note that the soil assessments are made on the natural existing land as it was at the time of the site inspections. Like all local developments the soils will be improved by drainage and the addition of fill, which will upgrade the land capability to a much higher more capable surface. The drainage and fill requirements will be made during the detailed design for the subdivision.

WILLYUNG, ALBANY

Lot sizes are proposed to be 0.4 - 1.0 hectares.

Change of landuse	
Potential Impact	 The surrounding lots are already special residential/rural residential living and this subdivision will match those landuses. The proposed lot sizes and land uses are no different to many other parts of the local area.
Recommendations	No specific recommendations required.

8.2 Aesthetics

The main consideration with the aesthetics is landscape protection which can be controlled by the location of the developments and the location of the building envelopes and the main developments being located north of the low vegetated ridge in the south.

The potential visual issues are the same as for the existing subdivisions.

Any adverse visual impacts can be solved by the planting of trees and gardens associated with the new dwellings as shown by the existing plantings at the new houses to the west and east.

The number of trees that are normally planted on rural living lots will provide adequate protection of the views from outside the site.

Existing trees and vegetation are not required to be impacted.

Some general recommendations are

- The siting and appearance of buildings and works be sympathetic with the area.
- "Landscape sympathetic materials" could be used for the construction of dwellings.
- Strategic planting of clumps of trees or tree belts on individual lots by new landholders.
- Retention of the existing trees and vegetation will minimise or mitigate visual impact.
- The colour and style of dwellings and other structures should be visually compatible with the area and to this end developments should be coloured, painted or colour bond sheeting used where applicable. The use of grey galvanised or zinc/alum sheeting should be avoided unless as an integral part of a development such as a roof on a "country style" home or shielded from key sight lines.

Analysis of Visual II	npact and Recommended Management
Potential Visual Impact	 The amount of visual impact is readily controlled and will occur as new landholders plant gardens. This will visually protect the site from adjoining lots. This will occur naturally as it does on many other similar subdivisions. The land is no different from the surrounding land that has already been developed.
Recommendations	 Restrictions could be placed on the use of visually non compatible materials. The colour and style of dwellings and other structures should be visually compatible with the area and to this end developments should be coloured, painted or colour bond sheeting used where applicable.

Land Capability - Geotechnical Assessment Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, WILLYUNG, ALBANY

8.3 Preservation of Agricultural Land

The Preservation of Agricultural land is a comment on the quality of the land for agricultural purposes. The quality of the land depends on a number of things such as the soils, water availability and surrounding land uses. The comments relate to effects the proposal may potentially have on sterilising, fragmenting or removing high quality land from production.

As noted earlier the soils of the site are sand over loam/clay which on this site are quite productive for pasture and grazing, holding pasture into summer.

Whilst the use of rural residential or special residential lots may take some land out of production, the quality of the land is not sufficiently high, and, considering the proximity to the planning precinct of Albany, the loss of agricultural soils will be a consequence of town site expansion that fills a community need.

This is the last portion of land within the rural living precinct.

Analysis of Agricultural Significance and Recommended Management				
Agricultural Significance	• There is a need for this type of lot size and the proposal represents a balanced compromise between the loss of agricultural land, the need for rural residential/special residential lots and better preservation of the remnant vegetation.			
Recommendatiions	Not required			

8.4 Land Use Buffers

Land Use Buffers relate to the potential for land use conflicts between the proposed and existing land uses and dwellings. The buffers could relate to noise, dust, odour, spray drift or other potential conflicts.

Buffers to significant environmental features such as watercourses, wetlands, and heritage areas are also important and are considered separately.

Buffers to Broad acre Cropping and Grazing

The land to the east is already subdivided. The buffers between that land and rural land will be no different from this land, when subdivided, and no particular buffers are required.

Foreshore Reserves

These are fenced and already allocated and protected. There will be no changes to the foreshore reserves.

The allocation of building envelopes provide the setbacks to King River. The setbacks comply with Government Policy. Waste water disposal areas are available on all lots, set back 100 metres from the water bodies.

Land Use Buffers and Recommended Management		
Buffers	 There are no adjoining land uses existing or proposed that will require large or significant buffers. Lot sizes are sufficiently large to manage any buffers through setbacks and screening tree belts. There will be no changes or impacts on foreshore reserves or setbacks. 	

Land Capability - Geotechnical Assessment Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, WILLYUNG, ALBANY

Recommendations

No significant buffers required.

8.5 Fire Control

Fire Management is a normal summer practice on all properties. The risk can be reduced through a range of activities such as the provision of fire breaks, providing fuel reduction zones, grazing or slashing and the provision of emergency facilities, procedures and exits.

Fire risk is best described in FESA, Planning for Fire, Fire and Emergency Services Authority of Western Australia.

Dwellings can be designed to comply with Australian Standard 3959 to assist in protection.

In recent years some fire impacts have affected the rural living fringe. Effective management by individual landholders is required to minimise the risks.

A Fire Management Plan will be required and the recommendations can be incorporated into the subdivision design. The risk factors will however be no different to the existing subdivisions.

Fire and Recommended Management				
Fire Management	 The change to fire risk is best addressed through a Fire Management Plan. The proposed lots are the same as those on the adjoining land. 			
Recommendations	 Compliance with Bush Fires Control Act 1954 (as amended) and the City of Albany bylaws. Compliance with any Fire Risk Assessment and Fire Management Plan is recommended. 			

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FIGURE 1

**** S 1-/-1/ 150 S ĠS S Opa Bo 03.00 s/c ,10 ¢ S 9.0 Solo L/W 000 Ð GS 0 200 618 940 E/W ۴. . S °.33 ้ร 00 S 0 S 00 964 L/W 5 B n ъ. S 0 പി 8 S 100 8 10 00 \$92 000 Con 0 08 0-ຮັບ G. Fa 0 0,00 S/L S 8 41.00 L/W ິຍ GS 16. 合 N لي ال S. \bigcirc Soil Type Description Laterite Duricrust and Gravel SL Fine leached sand over latente duncrust and gravel at less than 0.5 metres. Sand over ferricrele at depths off 0.5 - 1.8 metres. Fine sand of likely Plantagenet Beds S origin, either in situ or having been reworked. Soil Types S/C Sand over sandy day, partially seasonally waterlogged. Proposed Subdivision GS Granitic sand derived from weathering granite Willyung Road, Upper King, Albany either from the local basement or transported SOIL TYPES OF THE LOCAL AREA Landform Research material predating the finer sands. Coarse quartz sand with increasing kaolin rich clay at Land Systems - Environment ABN 29 841 445 694 Mapped by Landform Research Jan 1997 Scale 1 : 5 000 Basemap Ayton Taylor-Burrell L Slephens - March 1997 and November 2017 Oata depth. Partially waterlogged sand, predominantly leached over femicrote at 0.5 - 1.5 metres LW FIGURE 2

REPORT ITEM DIS 101 REFERS



PROPOSED SUBDIVISION Lots 44 & 46 Bilaboya Place Lot 9041 Willyung Road Willyung, City of Albany

P L A N N I N G 59 Peels Place

ALBANY WA 6330 Ph 9842 2304 Fax 9842 8494



FLOOD INTERPRETATION

Lots 44 & 46 Bilaboya Place Lot 9041 Willyung Road Willyung, City of Albany



ALBANY WA 6330 Ph 9842 2304 Fax 9842 8494







Lots 44 and 46 Bilaboya Place Lot 9041 Wilyung Road Wilyung, City of Albany



SITE TEST HOLES / FLOOD & WASTE WATER DISPOSAL AREAS

Lots 44 & 46 Bilaboya Place Lot 9041 Willyung Road Willyung, City of Albany

P L A N N I N G 59 Peels Place

ALBANY WA 6330 Ph 9842 2304 Fax 9842 8494





Test Hole on Lot 15



Test Hole on Lot 18



Test Hole on Lot 3

Willyung Road Structure Plan Lots 44, 46 Bilaboya Place and Lot 9041 Wuillyung Road, Willyung







Test Hole on Lot 11



Test Hole on Lot 8



Test Hole on Lot 16

Willyung Road Structure Plan Lots 44, 46 Bilaboya Place and Lot 9041 Wuillyung Road, Willyung







Test Hole on Lot 17



Test Hole on Lot 6

Test Hole on Lot 14



Test Hole on Lot 12

Willyung Road Structure Plan Lots 44, 46 Bilaboya Place and Lot 9041 Wuillyung Road, Willyung





Test Hole on Lot 7



Test Hole on Lot 15



Test Hole on Lot 14



Test Hole on Lot 10

Willyung Road Structure Plan Lots 44, 46 Bilaboya Place and Lot 9041 Wuillyung Road, Willyung







Test Hole on Lot 1



Test Hole on Lot 2

Willyung Road Structure Plan Lots 44, 46 Bilaboya Place and Lot 9041 Wuillyung Road, Willyung





View south across Lot 14 towards the chaletc



View west from Lot 15



View north west towards the culvert from Lot $\ensuremath{12}$



Lview north east across Lot 6 with some of the local residents



View east along the watercourse to the north of Lot 8



View east from Lot 9



View north east across Lot 3



View north across Lot 1



View north west across Lot 18



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung	Date of Inspections	See Soil Test Holes
	Road, Willyung Albany		

Test Hole Number	18	Natural Surface		
Location	Lot 21	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 150 mm	Grey sand			
150 – 250 mm	Cream sand			
250 – 1200 mm	Pale brown yellow sand with variable lea	aching		
1200 – 1380mm	Grey white silty clay, very fine with ferric	rete at 1380 mm		
Groundwater	Not intersected			
Comment				

Test Hole Number	19	Natural Surface		
Location	Lot 21	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 280 mm	Grey sand			
280 – 450 mm	Cream sand			
450 – 840 mm	Cream yellow sand			
840 mm	Weathered granitic sand			
Groundwater	Not intersected.			
Comment				

Test Hole Number	20	Natural Surface		
Location	Lot 45	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 240 mm	Grey sand			
240 – >2000 mm	Fine white sand			
Groundwater	Not intersected. Alluvial terrace			
Comment				

Test Hole Number	21	Natural Surface		
Location	Lot 44	Base of Hole		
Test Hole Type	Water Sample 23 – 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
Groundwater	Water sample 440 mg/L salt - fresh			
Comment				



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung	Date of Inspections	See Soil Test Holes
	Road, Willyung Albany		

Test Hole Number	23	Natural Surface		
Location	Lot 20	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 200 mm	Grey white sand			
200 – 300 mm	Yellow brown sand			
300 mm	Tree root – could not penetrate			
Groundwater	Not intersected			
Comment				

Test Hole Number	80	Natural Surface		
Location	Lot 1	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 1050 mm	Grey white sand			
1050 mm	ferricrete			
Groundwater	Not intersected			
Comment				

Test Hole Number	81	Natural Surface		
Location	Lot 1	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 1350 mm	Grey white sand			
1350 – 1550 mm	Grey silty bluish clay sand, poorly drain	ed		
1050 mm	ferricrete			
Groundwater	1500 mm			
Comment				

Test Hole Number	82	Natural Surface		
Location	Lot 3	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 350 mm	Old gravel pit with dam			
Groundwater	Water sample 165 mg/L salt - fresh fror	n dam		
Comment				



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, Willyung Albany	Date of Inspections	See Soil Test Holes

Test Hole Number	83	Natural Surface		
Test Hole Nulliber	05	Natural Surface		
Location	Lot 4	Base of Hole		
Test Hole Type	Hand auger 23 – 25 January 1997	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 800 mm	Grey white sand			
800 mm	Laterite duricrust			
Groundwater	Not intersected			
Comment				

Test Hole Number	84	Natural Surface		
Location	Lot 13 - 14	Base of Hole		
Test Hole Type	Dam – 23 - 25 January 1997	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 1500 mm	Coarse quartz sand – close to granite ba	sement		
Groundwater	Water sample 1925 mg/L salt –upper end of fresh. Water table at 1500 mm			
Comment				

Test Hole Number	87	Natural Surface		
Location	Lot 135- 16	Base of Hole		
Test Hole Type	Creek – 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
	Creekline bottomed in white clay			
Groundwater	Creekline			
Comment				

Test Hole Number	88	Natural Surface		
Location	Lot 43	Base of Hole		
Test Hole Type	Hand auger 23 - 25 January 1997	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 420 mm	Coarse quartz sand – close to granite t	asement		
420 mm	Ferruginous material – hard pan could	not penetrate		
Groundwater	Not intersected			
Comment				

Test Hole Number	89	Natural Surface		
Location	Lot 21	Base of Hole		
Test Hole Type	Hand auger – 23 – 25 January 1997	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 700 mm	Deep sand increasing in thickness down slope			
700 mm	Laterite ferricrete			
Groundwater	Not intersected			
Comment				

3



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung	Date of Inspections	See Soil Test Holes
	Road, Willyung Albany		

Test Hole Number	87	Natural Surface		
Location	Lot 54, 15 metres from wetland fence	Base of Hole		
Test Hole Type	Hand auger	Depth		
Diameter		Depth of static water level	1.2 m	
Depth	Description		Comments	
0 – 450 mm	Grey sand - topsoil			
450 – 1500 mm	Cream Quartz sand			
Groundwater	1 200 mm			
Comment	1 metre elevation higher than land surface at fence			

Test Hole Number	52	Natural Surface		
Location	Lot 6	Base of Hole		
Test Hole Type	Backhoe – WG Sept 1998	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 50 mm	Topsoil			
50 – 300 mm	Sand			
300 – 700 mm	laterite			
700 – 1100 mm	White sandy clay			
Groundwater	Water table not intersected			
Comment				

Test Hole Number	53	Natural Surface		
Location	Lot 43	Base of Hole		
Test Hole Type	Backhoe – WG Sept 1998	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 100 mm	Topsoil			
10 – 1100 mm	Grey Sand			
Groundwater	600 mm			
Comment				

Test Hole Number	54	Natural Surface		
Location	Lot 19	Base of Hole		
Test Hole Type	Backhoe – WG Sept 1998	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 300 mm	Topsoil/dark grey sand			
300 – 1100 mm	Light grey sand			
Groundwater	700 mm			
Comment				


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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung	Date of Inspections	See Soil Test Holes
	Road, Willyung Albany		

Test Hole Number	55	Natural Surface		
Location	Lot 45	Base of Hole		
Test Hole Type	Backhoe – WG Sept 1998	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 300 mm	Topsoil/dark grey sand			
300 – 1100 mm	Light grey sand			
Groundwater	700 mm			
Comment				

Test Hole Number	56	Natural Surface		
Location	Lot 425 – west of subject land	Base of Hole		
Test Hole Type	Backhoe – WG Sept 1998	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 350 mm	Topsoil dark grey sand			
350 – 750 mm	Clay coffee rock			
750 – 1100 mm	Orange gravel clay			
Groundwater	300 mm			
Comment				

Test Hole Number	171	Natural Surface		
Location	Lot 9	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 80 mm	Topsoil dark grey sand			
80 – 270 mm	Yellow brown sandy laterite			
270 – 950 mm	Light brown to cream sand			
950 – 1700 mm	Yellow fine grained sandy earth		Plantagenet Beds	
Groundwater	Not intersected			
Comment				

Test Hole Number	171	Natural Surface		
Location	Lot 13	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 80 mm	Topsoil dark grey sand			
80 – 270 mm	Yellow brown sandy laterite			
270 – 950 mm	Light brown to cream sand			
950 – 1700 mm	Yellow fine grained sandy earth		Plantagenet Beds	
Groundwater	Not intersected			
Comment				



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung	Date of Inspections	See Soil Test Holes
	Road, Willyung Albany		

Test Hole Number	172	Natural Surface		
restrible Number	172	Natural Surface		
Location	Lot 14	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 100 mm	Topsoil dark grey sand			
100 – 350 mm	Pale grey sand			
350 – 700 mm	Yellow brown ferruginous indurated san	ds (laterite)	Could not penetrate	
			Plantagenet Beds	
Groundwater	Not intersected			
Comment				

Test Hole Number	173	Natural Surface		
Location	Lot 17	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 220 mm	Brown grey sand			
220 – 620 mm	White fine sand			
620 – 900 mm	Brown gravelly sand			
900 – 1400 mm	Cream slightly darker yellow brown earth	ny sand	Plantagenet Beds	
Groundwater	Not intersected			
Comment				

Test Hole Number	175	Natural Surface		
Location	Lot 15	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 120 mm	Dark grey sand		Repeats Hole 51 of V which is not available <i>Juncus palidus</i> which moisture in winter. Th normal development	Wood and Grieve e. Located next to n indicates surface his can be solved by practices.
120 – 600 mm	Grey moist sand			
600 – 700 mm	Yellow brown iron indurated fine sand (laterite). Too hard to penetrate		Plantagenet Beds	
Groundwater	Not intersected			
Comment				

Test Hole Number	176	Natural Surface		
Location	Lot 10	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 310 mm	Dark grey sand			
310 – 820 mm	Grey sand			
820 – 1200 mm	Yellow brown earthy laterite sand, very moist with a perched wet zone at the base		Plantagenet Beds	
Groundwater	Water seepage at 950 mm			



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung	Date of Inspections	See Soil Test Holes
	Road, Willyung Albany		
Comment			

Test Hole Number	177	Natural Surface		
Location	Lot 6	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 200 mm	Topsoil dark grey fine sand			
200 – 500 mm	Cream coarse quartz sand with some iro	n induration	From weathered granite	
500 – 1450 mm	Cream coarse grained permeable sandy	clay	Weathered granite a	it depth.
Groundwater	Not intersected			
Comment				

Test Hole Number	178	Natural Surface		
Location	Lot 11	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 90 mm	Topsoil dark grey sand			
90 – 730 mm	Cream brown coarse guartz sand with minor iron induration		From weathered granite	
270 – 950 mm	Light brown to cream sand			
950 – 1700 mm	Yellow fine grained sandy earth		Weathered granite at depth	
Groundwater	Not intersected			
Comment				

Test Hole Number	179	Natural Surface		
Location	Lot 7	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 160 mm	Dark grey fine sand			
160 – 430 mm	Fine light grey sand		Plantagenet Beds	
430 – 680 mm	Yellow brown gravelly loam with coarse sand		Granite sand	
680 – 1440 mm	Pale yellow brown loam to permeable cla mottles	ay with brown	Weathered granite	
Groundwater	Not intersected			
Comment				



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, Willyung Albany	Date of Inspections	See Soil Test Holes

Test Hole Number	1710	Natural Surface		
Location	Lot 9	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 110 mm	Very dark fine grey sand			
110 – 450 mm	Dark fine grey sand to grey sand			
450 – 600 mm	Yellow gravelly indurated earthy fine sa	nd		
600 mm	Could not penetrate		Plantagenet Beds	
Groundwater	Not intersected			
Comment				

Test Hole Number	1711	Natural Surface		
Location	Lot 8	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 180 mm	Dark grey fine sand			
180 – 750 mm	Light cream fine sand		Plantagenet Beds	
750 – 1300 mm	Coarse yellow - cream quartz sand		Granite sand	
1300 – 1450 mm	Cream loam weathered granite loam wit brown mottles	h darker yellow	Weathered granite	
Groundwater	Not intersected			
Comment				

Test Hole Number	1712	Natural Surface		
Location	Lot 12	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 120 mm	Topsoil dark grey fine sand			
120 – 370 mm	Yellow brown sandy laterite			
370 – 780 mm	Light brown to cream sand			
780 – 1360 mm	Yellow fine grained sandy earth to loam with darker yellow brown and red mottles		Plantagenet Beds	
Groundwater	Not intersected			
Comment				

Test Hole Number	1713	Natural Surface		
Location	Lot 4	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 250 mm	Topsoil dark grey fine sand			
250 – 1800 mm	Fine grey sand		Plantagenet sands t	hat have been
			transported and red	eposited?
Groundwater	1200 mm			
Comment				



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Project	Willyung Subdivision	Site Assessed by	L Stephens
Location	Lots 44 and 46 Bilaboya Place and Lot 9041 Willyung	Date of Inspections	See Soil Test Holes
	Road, Willyung Albany		

Test Hole Number	1714	Natural Surface		
Location	Lot 3	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static		
		water level		
Depth	Description		Comments	
0 – 150 mm	Topsoil dark grey sand			
150 – 1850 mm	Cream fine sand		Plantagenet beds	
Groundwater	1250 mm			
Comment				

Test Hole Number	1715	Natural Surface		
Location	Lot 2	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 100 mm	Dark grey fine sand			
100 – 600 mm	Grey fine sand			
600 – 750 mm	Light yellow brown to darker iron indura	ted fine sand	Plantagenet beds	
Groundwater	Not intersected			
Comment				

Test Hole Number	1716	Natural Surface		
Location	Lot 1	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 520 mm	Grey sand			
520 –650 mm	Yellow brown indurated earthy sand with darker yellow brown mottles.		Plantagenet beds	
650 mm	Laterite gravel. Could not penetrate.		Could not penetrate	
Groundwater	Not intersected			
Comment				

Test Hole Number	1717	Natural Surface		
Location	Lot 2	Base of Hole		
Test Hole Type	Mini – excavator 3 Nov 2017	Depth		
Diameter		Depth of static water level		
Depth	Description		Comments	
0 – 110 mm	Topsoil dark grey fine sand			
110 – 440 mm	Pale grey fine sand			
440 – 960 mm	Yellow brown earthy sandy gravel			
960 – 1500 mm	Yellow fine grained sandy earth to perm yellow brown mottles	eable silty clay with	Plantagenet Beds	
Groundwater	Not intersected			
Comment				

Appendix B

Bushfire Management Plan

Bio Diverse Solutions December 2017

Lot 44 and 46 Bilaboya Place & Lot 9041 Willyung Road, Albany WA 6330

Bushfire Management Plan



11/12/2017 Kathryn Kinnear Bio Diverse Solutions



DOCUMENT CONTROL

<u>TITLE</u>

Title: Lot 44 & 46 Bilaboya Place & Lot 9041 Willyung Road Bushfire Management Plan Author (s): Kathryn Kinnear Reviewer (s): Bianca Theyer, Nick Ayton Job No.: AB0024 Client: Brian and Christine Lowrie

REVISION RECORD

Revision	Summary	Revised By	Date
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Draft ID 1/12/2017	Draft report released to client & Ayton Baesjou Planning	C.Lowrie & N.Ayton	1/12/2017
FINAL ID 11/12/2017	Final report issued to client	K.Kinnear	11/12/2017





Bio Diverse Solutions 29 Hercules Crescent Albany WA 6330

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1. Executive Summary

Bio Diverse Solutions (Bushfire Consultants) were commissioned to prepare a Bushfire Management Plan to guide all future bushfire management for the variation to the existing Structure Plan of Lot 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, Albany ("the Subject Site").

The proposal for Subject Site consists of 19 special residential lots ranging in size from 4700m² to 1.4ha, including the existing owners residence. The balance of land is a Special Use Zone whereby chalets are located. The publicly released Bushfire Prone Area Mapping (DFES, 2017) shows that the whole of the Subject Site is located within a Bushfire Prone Area (situated within 100m of >1 ha of bushfire prone vegetation).

Bushfire hazards identified for the site are the unmanaged forested areas along the King River foreshore (north) and grazed pastures to the south and unmanaged grasslands to the east. Remnant Forest vegetation through the central area of the Subject site is located upslope of any dwellings and therefore has a reduced radiant heat intensity. It is also surrounded by moderate hazards ("Island effect") which also reduces the intensity of the bushfire threat from this area. The Structure Plan proposes large lots which allows for adequate setbacks to the bushfire hazards.

The Subject Site was assessed as having internal areas of Grassland Type G consistent with rural farmland, a low fuel/non-vegetated area surrounding the existing dwelling (proposed Lot 19). An internal ridge of remnant Jarrah/Marri/Casuarina Forest extends central south. External bushfire risks are mostly associated with remnant vegetation along the King River to the north and to adjacent paddocks (Grassland Type G) to the south. Existing residences occur to the west and east in similar sized lifestyle lots.

Some native vegetation modification is required around the existing chalets in the Special use are to ensure that APZ areas consistent with BAL 29 or less prevails over the buildings. Occasional trees and understorey modification is required.

Blue gums are present in the central paddock area, these are "escapees" from the windbreak to the east. The client is keen to remove all Blue Gums to ensure APZ areas can be achieved and these introduced species do not continue to spread across the Subject Site.

BAL contouring across the Subject Site has allocated BAL 29 or less shall apply to any Building Envelopes within the lots. Internal areas of Grassland Type G (Plot 6 and Plot 2) <u>have not been mapped on the BAL</u> <u>Contour Plan</u> with BAL-FZ applicable to the whole of site. A 20m-23m APZ area minimum will apply in internal areas of Grassland Type G to ensure that all proposed buildings will be in Building Envelopes and will be subject to a BAL rating of BAL- 29 to BAL-12.5. The 20m-23m APZ has been specified for each lot and shall be designated over the lots through this approved BMP and the design guidelines for the subdivision. It is recommended that the City of Albany continue to refer to the approved BMP for the estate as part of their fire management notice. The 2017/18 CoA Fire Management Notice currently refers to Bushfire Management Plans and that property owners are to comply with the conditions of the approved plan.

All future buildings can achieve an APZ area associated with a BAL allocation of BAL 29, BAL 19 or BAL 12.5. The existing chalets require some minor clearing to achieve APZ areas of BAL 29 or less to the south of the chalets and the existing dwelling can achieve APZ areas of BAL 29.

Access will be provided to ensure that future residents have access in alternative directions to separate destinations. A connecting EAW will assist a proposed cul-de-sac in the central area and an existing cul-de-sac in the north is a legacy issue which cannot be avoided due to steep terrain and environmental considerations relating to the King River to the north. Water supply will be through the provision of reticulated water supply to WCWA standards. An assessment to the WAPC Guidelines for Planning in Bushfire Prone Areas (vers 1.2, 2017) Acceptable Solutions of the 4 bushfire protection criteria is summarised over the page.

Element	Acceptable Solution	Applicable or not Yes/No	Meets Acceptable Solution
Element 1 – Location	A1.1 Development Location	Yes	Compliant BAL 29 or less applied to lots, existing house and chalets BAL 29 applied.
Element 2 – Siting and Design	A2.1 Asset Protection Zone	Yes	Compliant, APZ area in BE's to BAL 29 or less. APZ area to be specified through approval of BMP and reference in CoA Fire Management Notice
Element 3 – Vehicular Access	A3.1 Two Access Routes A3.2 Public Road A3.3 Cul-de-sacs A3.4 Battle axes A3.5 Private driveways A3.6 Emergency Access Ways A3.7 Fire Service Access Ways A3.8 Firebreaks	Yes Yes N/A Yes Yes N/A Yes	Compliant two access points to 2 destinations Compliant – meet Table 5 Compliant – meet Table 5 N/A Compliant – meet Table 5 Compliant – meet Table 5 N/A Compliant on parent lot, applicable to future lots
Element 4 – Water	A4.1 Reticulated areas A4.2 Non-reticulated areas A4.3 Individual lots in non- reticulated areas	N/A Yes Yes	Compliant to WCWA Standards N/A N/A

Table 1: Bushfire protection criteria applicable to the site



2. Proposal Details

Brian and Christine Lowrie commissioned Bio Diverse Solutions (Bushfire Consultants) to prepare a Bushfire Management Plan (BMP) to guide all future bushfire management to address the variation of the Structure Plan Lot 44 and 46 Bilaboya Place and Lot 9041 Willyung Road Albany.

This BMP has been prepared to assess the subject site to the current and endorsed Guidelines for Planning in Bushfire Prone Areas Vers 1.2 (WAPC, 2017) and State Planning Policy 3.7 (WAPC, 2015).

Such planning takes into consideration standards and requirements specified in various documents such as Australian Standard (AS) 3959-2009, Western Australian Planning Commission (WAPC) Guidelines for Planning in Bushfire Prone Areas Vers 1.2 (WAPC, 2017) and State Planning Policy 3.7 (WAPC, 2015). These policies, plans and guidelines have been developed by WAPC to ensure uniformity to planning in designated "Bushfire Prone Areas" and consideration of the relevant bushfire hazards when identifying or investigating land for future development.

2.1. Location

Lot 44 and 46 Bilaboya Place and Lot 9041 Willyung Road Albany are located approximately 14km northwest of the Albany CBD in the Willyung area. The Subject Site is bound by Willyung Road to the south, residential/lifestyle blocks to the east and west and rural properties to the south and north. The location of the Subject Site is shown on Figure 1.



Figure 1: Location Plan

2.2. Development Proposal

The BMP address the variation to the existing Structure Plan of Lot 44 and 46 Bilaboya Place and Lot 9041 Willyung Road, Albany ("the Subject Site").



The proposal for Subject Site consists of 19 special residential lots ranging in size from 4700m² to 1.4ha, including the existing owners residence. The balance of land is a Special Use Zone whereby chalets are located.

The BMP has been prepared to assess the site as per the Western Australian Planning Commission (WAPC) Guidelines for planning in bushfire prone areas Vers 1.2 (WAPC, 2017). Refer to the Structure Plan Figure 2.



Figure 2: Structure Plan



The publicly released Bushfire Prone Area Mapping (DFES, 2017) shows that the whole of the Subject Site is located within a Bushfire Prone Area (situated within 100m of >1 ha of bushfire prone vegetation). Bushfire Prone Area Mapping is shown on Figure 3.



Figure 3: Bushfire Prone Area Mapping

2.3. Statutory Framework

This document has been prepared to support a variation in the Structure Plan application to the City of Albany. This document and the recommendations contained within are aligned to the following policy and guidelines:

- Planning and Development Act 2005;
- Planning and Development Regulations 2009;
- Planning and Development (Local Planning Scheme) Regulations 2015;
- State Planning Policy 3.7 Planning in Bushfire Prone Areas;
- Guidelines for Planning in Bushfire Prone Areas;
- Building Act 2011;
- Building Regulations 2012;
- Building code of Australia (National Construction Code);
- Fire and Emergency Services Act 1998.
- AS 3959-2009 "Construction of Buildings in Bushfire Prone Areas" current and endorsed standards;
- Bushfires Act 1954; and
- City of Albany Annual Fire Management Notice.

2.4. Suitably Qualified Bushfire Consultant

This BMP has been prepared by Kathryn Kinnear (nee White), who has 10 years operational fire experience with the (formerly) DEC (1995-2005) and has the following accreditation in bushfire management:

- Incident Control Systems;
- Operations Officer;
- Prescribed Burning Operations;
- Fire and Incident Operations;
- Wildfire Suppression 1, 2 & 3;



- Structural Modules Hydrants and hoses, Introduction to Structural Fires, and Fire extinguishers; and
- Ground Controller.

Kathryn Kinnear currently has the following tertiary Qualifications:

- BAS Technology Studies & Environmental Management;
- Diploma Business Studies; and
- Graduate Diploma in Environmental Management.

Kathryn Kinnear is an accredited Level 2 Bushfire Practitioner (Accreditation No: BPAD30794). Bio Diverse Solutions are Silver Corporate Members of the Fire Protection Australia Association. Kathryn is a member of the WA Bushfire Working Group and is a suitably qualified Bushfire Practitioner to prepare this Bushfire Management Plan.



3. Objectives

The objectives of this BMP are to assess the bushfire risks associated with the existing site and the proposed subdivision to reduce the occurrence of, and minimise the impact of bushfires, thereby reducing the threat to life, property and the environment. It also aims to guide the subdivision design by assessing the proposed subdivision according to the Bushfire Protection Criteria Acceptable Solutions as outlined in the Guidelines for Planning in Bushfire Prone Areas Vers 1.2 (WAPC, 2017).

The BMP aims to:

- Achieve consistency with objectives and policy measures of SPP 3.7 (WAPC, 2015);
- Assess any building requirements to AS3959-2009 (current and endorsed standards) and BAL Construction;
- Assess the subdivision proposal against the Bushfire Protection Criteria Acceptable Solutions as outlined in the Guidelines for Planning in Bushfire Prone Areas (WAPC, 2017);
- Understand and document the extent of the bushfire risk to the Subject Site;
- Prepare bushfire risk management measures for bushfire management of all land within the Subject Site with due regard to people, property, infrastructure and the environment;
- Nominate individuals and organisations responsible for fire management and associated works within the Subject Site; and
- Ensure alignment to the recommended assessment procedure which evaluates the effectiveness and impact of proposed, as well as existing, bushfire risk management measures and strategies.



4. Environmental Considerations

4.1. Native vegetation – modification and clearing

Some native vegetation modification is required around the existing chalets in the Special use are to ensure that APZ areas consistent with BAL 29 or less prevails over the buildings. Occasional trees and understorey modification is required.

Blue gums are present in the central paddock area, these are "escapees" from the windbreak to the east. The client is keen to remove all Blue Gums to ensure APZ areas can be achieved and these introduced species do not continue to spread across the Subject Site.

4.2. Re-vegetation/Landscape Plans

There are no revegetation or landscape plans pertinent to this site. The "Creek Protection Area" in the north of the Subject Site is anticipated to return in the future to a Forest Type A status.



5. Bushfire Assessment results

A site inspection was conducted on the 1st November 2017 by Kathryn Kinnear to assess the current land use, topography/slope, vegetation and conditions of the site and its surroundings. Photographs of the Subject Site and surrounding areas were taken and have been presented in this report.

All vegetation within 150m of the site / proposed development was classified in accordance with Clause 2.3 and Exclusions as per Clause 2.2.3.2 of AS 3959-2009. Each distinguishable vegetation plot with the potential to determine the Bushfire Attack Level is identified over the page. Each plot is representative of the Vegetation Classification to AS3959-2009 Table 2.3 and shown on the Vegetation Classification Mapping (Figure 4 and 5).

Plot	1	Classification or Exclusion Clause	Forest Type A	
0 306°NW (T) 0 34°56'32"S, 117"52'39"E ±5m A 31m		NW N A A A A A A A A A A A A A A A A A A	 Location: Situated internal to the site to the north of the existing house and south of the Chalets. o the west in adjacent property along Greenwood Drive. External to the site subject site in the King River foreshore reserve area and to the west in adjacent property along Greenwood Drive. Separation distance: 40.7 to 45.4m to the north (King River), 25m to the west, 11-25m from the chalets and 21-24m from the existing dwelling. Dominant species & description: Jarrah and Marri trees, juvenile trees, Acacias, Hibbertia, Banksia, Emu bush, sedges and grasses. Multilayered. Average vegetation height: 15-18m. Surface fuel loading: 25-35t/ha. Effective slope: Upslope. 	
Photo Ic	1 1: View to	the west through Forest Type A a	adjacent to the existing building.	
Plot 1 Classification or Exclusion Clause		Classification or Exclusion Clause	Forest Type A	
SW 240 W 270 xet W 380 N xet X		W 18 NE 34°56'31"S, 117°52'42"E ±5m ▲ 13m	Further photographs of Plot 2.	

Photo Id 2: View to the north west through central forest area.



Lots 44 & 46 Bilaboya Place & Lot 9041 Willyung Road - Bushfire Management Plan

Plot	2	Classification or Exclusion Clause	Grassland Type G	
E SE S SW 100 100 100 100 100 100 100 10		SE S SW res 100 SW res 4*56'33''S, 117*52'40"E ±5m ▲ 24m	Location: Located in grazed paddock areas in the south of the lot near existing house in the subject site (internal).	
11.10	Sa pai		Separation distance: 10m from the existing dwelling.	
	-		Dominant species & description: Paddock grasses, kikuyu, clover, cape weed, phalaris species.	
	THE PARTY OF		Vegetation coverage: < 10% trees.	
	1.7.7	Contraction of the	Average vegetation height: 200-300mm.	
			Surface fuel loading: 4.5 t/ha.	
	144	01Nov2017,1043	Effective slope: Downslope >5-10 degrees.	
Photo Ic	1 3: View to	o the south of Grasslands adjacen	t to the existing dwelling in grazed paddock.	
Plot	3	Classification or Exclusion Clause	Low fuel or non-vegetated areas Exclusion 2.2.3.2 (f)	
Sublid O	79°E (T) • 34	NE E SE 1956'32"S, 117*52'39"E ±5m ▲ 26m	Location: Located around existing houses and dwellings in APZ areas.	
			Exclusion as per AS3959-2009 Exclusion 2.2.3.2 (f) maintained lawns and gardens, evidence of upkeep displayed. Fuel loading: <2t/ha.	
- Leve		01 Nov 2017, 10:43		
Photo Ic	4: View of	f mowed lawns around existing bu	ilding in the subject site.	
Plot	3	Classification or Exclusion Clause	Low fuel or non-vegetated areas Exclusion 2.2.3.2 (f)	
SW 0.32	W 5°NW (T)	₩ N NE 34*56'24"S, 117*52'47"E ±5m ▲ 33m	Location: located around existing houses and dwellings in APZ areas.	
			Exclusion as per AS3959-2009 Exclusion 2.2.3.2 (f) maintained lawns and gardens, evidence of upkeep displayed. Fuel loading: <2t/ha.	
400		01 Nov 2017, 11:26		

Photo Id 5: View from the east of one of the chalets showing low fuel mowed areas.



Lots 44 & 46 Bilaboya Place & Lot 9041 Willyung Road - Bushfire Management Plan

Plot	4	Classification or Exclusion Clause	Low fuel or non-vegetated areas Exclusion 2.2.3.2 (e)
011	NE 4-SE (T) 0-3	E SE S 4*56*31*S, 117*52*40°E ±10m ▲ 28m Of Nov 2017, 10:42	Location: Bare areas, dams, roads and hardstand areas in and around the subject site. Exclusions as per As3959-2009 Exclusion (e).
Photo Id Plot	4 6: View of 4	hardstand areas near existing ho Classification or Exclusion	Use. Low fuel or non-vegetated areas Exclusion
	5E	S SW 4*56*12"S, 117*52"38"E ±5m ▲ 11m	Location: Bare areas, dams, roads and hardstand areas in and around the subject site. Exclusions as per As3959-2009 Exclusion (e).
Photo Id	1 7: View to	the south along Kelty View. Classification or Exclusion	Low fuel or non-vegetated areas Exclusion
Plot	5	Clause	2.2.3.2 (f) Windbreaks Location: Located to the west of the existing house along unformed road reserve and neighbours fence line. Exclusion as per AS3959-2009 Exclusion 2.2.3.2 (f) single row of trees presented with low grasses. Fuel loading: <2t/ha.

Photo Id 8: View to the south along windbreak in existing road reserve (unformed)



Lots 44 & <u>46 Bilaboya Place & Lot 9041 Willyung Road</u> - Bushfire Management Plan

Plot	6	Classification or Exclusion Clause	Grassland Type G
m ▲ 21m			Location: Located in grazed paddock areas south of the Subject site.
SE • E ±50			Separation distance: 25m.
5, 117*52'39'E		5	Dominant species & description: Paddock grasses, kikuyu, clover, cape weed, phalaris species.
6.35		and the last of the	Vegetation coverage: < 10% trees.
34°			Average vegetation height: 200-300mm.
8- E			Surface fuel loading: 4.5 t/ha.
NE 099*E			Effective slope: Downslope >0-5 degrees.
Photo Id	9: View to	the south east of grasslands in pa	ddock areas south of the subject site.
Plot	6	Classification or Exclusion Clause	Grassland Type G
	NW	N NE E	Location: Located internal and external east and west of the Subject site in grazed paddocks.
	X	SO 21 S, TV SCA2 E SOM 2 2011	Separation distance: internal and external 0m to lot boundary.
			Dominant species & description: Paddock grasses, kikuyu, clover, cape weed, phalaris species.
-	-		Vegetation coverage: < 10% trees.
			Average vegetation height: 200-300mm.
		the second se	Surface fuel loading: 4.5 t/ha.
		01 Nov 2017, 11:44	Effective slope: Downslope >0-5 degrees.
Photo Id	10: View l	ooking north in grazed paddock ar	eas, north of chalets.
Plot	7	Classification or Exclusion Clause	Grassland Type G
S		10121	Location: Located in grazed paddock areas external to the site to the west and south west.
39"E ±10m	Rivers		Separation distance: 45 to 59m to the west and 31.2m to the south west lot boundary.
128 Stars			Dominant species & description: Paddock grasses, kikuyu, clover, cape weed, phalaris species.
34156		- Carl - Market	Vegetation coverage: < 10% trees.
ms- 5		A STATE OF STATE	Average vegetation height: 200-300mm.
6°SE (Strand Carlos	Surface fuel loading: 4.5 t/ha.
0 12			Effective slope: Upslope.
Photo Id	11 [.] View t	o the south west of Grassland Tvp	e G Upslope (note the GPS on camera did not fix

Photo Id 11: View to the south west of Grassland Type G Upslope. (note the GPS on camera did n saying south east).



Plot	8	Classification or Exclusion Clause	Forest Type A
N	NE	SE 168 198 198 198 198 198 198 198 198 198 19	Location: Located along road reserve of Willyung Road.
	97°E(T) • 34	*56'35"S, 117*52'38"E ±5m ▲ 24m	Separation distance: 0m to southern boundary
			Dominant species & description: Jarrah, Marri and Casuarina, some planted unidentified Eucalypts. Midstorey of juvenile trees, Taylorina, Sydney Golden Wattle, Watsonia, sedges and grasses. Multilayered.
	and and	and the second	Vegetation coverage: >30-70% foliage cover.
i set		Star Star	Average vegetation height: 8-12m.
		UKNOV2012-INF-4	Surface fuel loading: 25-35t/ha.
			Effective slope: >0 to 5 degrees.
Photo Id	1 12: View t	o the east along Willyung Road.	
Plot	9	Classification or Exclusion Clause	Woodland Type B
SW			Location: Located to the south east of subject site in grazed/disturbed paddocks.
	5 (NW(I)) = 3	54 50 50 5, IT/ 52 45 E #5IT * 25IT	Separation distance: 0m to subject site boundary.
			Dominant species & description: Blue gums and introduced trees, grassy understorey, not multilayered.
Sec. 1		220 67 684.72	Vegetation coverage: 10-30% foliage cover.
1 10			Average vegetation height: 12-15m.
	alle 1	And the state of the second se	Surface fuel loading: 15-25t/ha.
		01 Nov 2017, 11:07	Effective slope: Downslope >0-5 degrees.
	140-14		
Photo Ia	13: View t	o the north west of Woodland Type	e B to the south east of the subject site.
Plot	10	Classification or Exclusion Clause	Scrub Type D
SE	S	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+	Location: Located in central creek area.
02	228°SW (T) •	34°56'11"S, 117"52'38"E ±5m ▲ 13m	Separation distance: 25m.
			Dominant species & description: Melaleuca scrub (Spearwood).
			Vegetation coverage: >30% foliage cover presenting as solid layer of fuels.
the second	State .		Average vegetation height: 2.5-3m.
City of	B-MARC		Surface fuel loading: 25t/ha.
2000		01 Nov 2017 13-14	Effective slope: Upslope.



Photo Id 14: View to south west showing vegetation height of Scrub Type D. (Note staff 4m)

Plot	11	Classification or Exclusion Clause	Forest Type A
NW N NE 0 340°N (T) ● 34°55′58°S, 117°52′38°E ±5m ▲ 15m		NW P N NE 4	Location: Located north of the subject site along the King River in foreshore reserve areas.
		4*55'58"S, 117*52'38"E ±5m ▲ 15m	Separation distance: 6m (strategic firebreak separation).
			Dominant species & description: Jarrah, Flooded Gum and Marri trees, juvenile trees, Acacias, Hibbertia, Banksia, Emu bush, sedges and grasses. Multilayered.
			Vegetation coverage: >30-70% foliage cover.
		in the second	Average vegetation height: 16-20m.
107-01	Burto	01 Nov 2017, 12:39	Surface fuel loading: 25-35t/ha.
			Effective slope: Downslope >5 to 10 degrees.
Photo Id	15: View t	o the north west in Forest Type A.	
Plot	11	Classification or Exclusion Clause	Forest Type A
W 278 + 12	800 NW	語 	Location: Located along The King river in foreshore reserve areas.
	2°N (T) • 34	1°56'1"S, 117°52'47"E ±5m ▲ 15m	Separation distance: 6m (strategic firebreak separation).
			Dominant species & description: Jarrah, Flooded gum and Marri trees, juvenile trees, Acacias, Hibbertia, Banksia, Emu bush, sedges and grasses. Multilayered.
			Vegetation coverage: >30-70% foliage cover.
1. A A.	1 person	La company Alleria	Average vegetation height: 16-20m.
A Start		01 No. 2017 - 2250	Surface fuel loading: 25-35t/ha.
			Effective slope: Downslope >5 to 10 degrees.

Photo Id 16: View to the North of Forest Type A in foreshore area.



Plot	12	Classification or Exclusion Clause	Forest Type A
141.1	NE 1 • 1 • 1 • 1 •	E SE SE	Location: Located to the east along the tributary to the King River.
01	13*SE (T) • 3	4*56'8"S, 117*52'49"E±10m ▲ 11m	Separation distance: 0m to lot boundary.
			Dominant species & description: Jarrah, Flooded gum and Marri trees, juvenile trees, Acacias, Hibbertia, Banksia, Emu bush, sedges and grasses. Multilayered.
			Vegetation coverage: >30-70% foliage cover.
	12	ALC: NOT	Average vegetation height: 16-20m.
20	Same P		Surface fuel loading: 25-35t/ha.
14.98		01 Nov 2017, 13:40	Effective slope: Downslope >0 to 5 degrees.
Photo Id	17: View t	o the east downstream in creek be	≥d.
Plot	12	Classification or Exclusion Clause	Forest Type A
NE	E	در الح الح الح الح الح الح الح الح الح الح	Location: Located along the eastern boundary and in the paddock, escaped blue gums from windbreak.
01	15°SE (T) • 3	4*56*10"S, 117*52*47"E ±5m ▲ 14m	Separation distance: 0m to lot boundary.
(AR	5.9		Dominant species & description: Blue gums and grasses understorey.
			Vegetation coverage: >30-70% foliage cover.
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Average vegetation height: 16-25m.
			Surface fuel loading: 25-35t/ha.
6 A.	and parts		Effective slope: Downslope >0 to 5 degrees.
71-14	E Maria	01 Nov2017, 1338	Note to be removed inside the subject site as deemed to be weeds.

Photo Id 18: View to the south east towards blue gums in paddock area.



Plot	13	Classification or Exclusion Clause	Forest Type A
SE to 10°S, 117°52′43″E ±5m ▲ 13m		S 5W 20 14°56'10°S, 117°52'43″E ±5m ▲ 13m	Location: Located along the creek area. Presents as Woodland Type B, however future creek protection area under scheme, therefore anticipated to become Forest A as in creek area.
		A Start	Separation distance: 0m to lot boundary. Creek protection area.
			Dominant species & description: Paperbarks and mowed grasses understorey.
		A STATE	Vegetation coverage: Possibly future >30-70% foliage cover.
2 F	- 16-5		Average vegetation height: 4-5m.
03-Nov 2017, 13-27		01-Nov 2017, 13/27	Surface fuel loading: Possible future 25t/ha.
			Effective slope: Downslope >0 to 5 degrees.
Photo Id 19: View to the south west in creek protection area.			

COMMENTS ON VEGETATION CLASSIFCATIONS:

- Distances from vegetation were made based on surface fuels to edge of lot (subject site) boundary;
- Effective slopes were measured in the field using a Nikon Forestry Pro and represented on the respective plots;
- Method 1 (AS3959-2009) Simplified procedure was used for vegetation classification/Assessment process;
- All vegetation was classified within the subject site and within 150m of the lot boundaries to AS3959 Table 2.3; and
- The perimeter of the vegetation was measured using field GPS and notations on field GIS maps.



A Scale

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6. Bushfire Attack Levels (BAL)

Bushfire Attack Level (BAL) is the process in AS39598-2009 for measuring the severity of a buildings potential exposure to ember attack, radiant heat and direct flame contact. The threat or risk of bushfire attack is assessed by an accredited BAL Assessor. BAL rating determinations are of 6 levels BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40, BAL FZ. Building is generally not recommended in BAL-40 or BAL-FZ areas. The BAL rating is determined by the distance of the building to vegetation, slope and vegetation type adjacent to the dwelling. Refer to Figure 6.



Figure 6: Building to BAL

Bushfire Attack Level (BAL) has been calculated using the Method 1 procedure as outlined in AS3959-2009. This incorporates the following factors:

- WA adopted Fire Danger Index (FDI);
- Vegetation Classes;
- Slope under classified vegetation; and
- Distance between proposed development site and classified vegetation.

The outcomes of the above inputs then allocate a specified BAL construction/setback for proposed buildings.

6.1. Fire Danger Index

The Western Australian adopted FDI is 80 as outlined in AS3959-2009 and endorsed by Australasian Fire and emergency Services Authorities Council. The FDI input for this project is also therefore 80.

6.2. Vegetation Classes

All vegetation within 150m of the Subject Site was classified. The vegetation classes (as described in Section 4.4) are shown on Figure 3 and listed below.

- Forest Type A;
- Woodland Type B;
- Scrub Type D;
- Grassland Type G; and
- Exclusions 2.2.3.2 (e) and (f).



6.3. Slope Under Classified Vegetation

Slope under classifiable vegetation (Effective Slope) was assessed in accordance with Section 2.2.5 of AS3959-2009. Table 2 below summarises the slopes assigned to each plot of classifiable vegetation for the BAL calculation.

Plot Number	Vegetation Classification	Effective Slope
1	Forest Type A	Upslope/Flat
2	Grassland Type G	Downslope >5 to 10 degrees
3	Low Fuel and Non-vegetated areas (e)	N/A
4	Low Fuel and Non-vegetated areas (f)	N/A
5	Low Fuel and Non-vegetated areas (f) Windbreaks	N/A
6	Grassland Type G	Downslope >0 to 5 degrees
7	Grassland Type G	Upslope/Flat
8	Forest Type A	Downslope >0 to 5 degrees
9	Woodland Type B	Downslope >0 to 5 degrees
10	Scrub Type D	Upslope/Flat
11	Forest Type A	Downslope >5 to 10 degrees
12	Forest Type A	Downslope >0 to 5 degrees
13	Forest Type A	Downslope >0 to 5 degrees

Table 2: Effective slope allocation to classified vegetation

Plots 3, 4 and 5 are allocated exclusion Clauses 2.2.3.2 and therefore do not have an effective slope allocation.

6.4. Method 1 BAL Calculation

A Method 1 BAL calculation (in the form of BAL contours) has been completed for the proposed subdivision in accordance with AS 3959-2009 methodology. The BAL rating gives an indication of the level of bushfire attack (i.e. the radiant heat flux) that may be received by proposed buildings and subsequently informs the standard of building construction required to increase building tolerance to potentially withstand such impacts in line with the assessed BAL.

The assessed BAL ratings for the development are depicted as BAL contours, BAL ratings for the Subject Site are presented in Table 3 with BAL Contours for the Subject Site shown on Figures 7 and 8.

All proposed buildings will be located in areas subject to a BAL rating of BAL 29 or lower.



Table 3: BAL Allocation

Lot number	Vegetation Type (Table 2.3)	Slope (Table 2.4.3)	Separation distance to vegetation (m)	Highest BAL Contour	Modified BAL Contour
1, 3	Forest Type A (Plot 11)	>5 to 10 degrees downslope	0-6m to lot boundary	BAL FZ and BAL 40	BAL 19 and BAL 12.5 can apply to the BE.
2	Grassland Type G (Plot 6)	>0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
4	Forest Type A (Plot 11)	>5 to 10 degrees downslope	0m to lot boundary	BAL FZ and BAL 40	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
6 &7	Forest Type A (Plot 13)	>0 to 5 degrees downslope	0m	BAL FZ and BAL 40	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
	Grassland Type G (Plot 6)	0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
5, 8 & 9	Forest Type A (Plot 13)	>0 to 5 degrees downslope	0m to lot boundary	BAL FZ and BAL 40.	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
	Forest Type A (Plot 1)	>0 to 5 degrees downslope	25m	BAL 29	BAL 29, BAL 19 and BAL 12.5 can apply to the BE
	Grassland Type G (Plot 6)	0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
10, 15, 16	Forest Type A (Plot 12)	>0 to 5 degrees downslope	0m	BAL FZ and BAL 40.	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
	Grassland Type G (Plot 6)	>0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
11 &12	Grassland Type G (Plot 6)	>0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
13	Forest Type A (Plot 1)	>0 to 5 degrees downslope	0-<100m	BAL FZ and BAL 40.	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
	Grassland Type G (Plot 6)	>0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
14	Forest Type A (Plot 1)	>0 to 5 degrees downslope	31-<100m	BAL 12.5 can apply to the BE.	N/A
	Grassland Type G (Plot 6)	>0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.



Lot number	Vegetation Type (Table 2.3)	Slope (Table 2.4.3)	Separation distance to vegetation (m)	Highest BAL Contour	Modified BAL Contour
17	Forest Type A (Plot 1)	>0 to 5 degrees downslope	0m to lot boundary.	BAL FZ and BAL 40.	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
	Grassland Type G (Plot 6)	>0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
18	Forest Type A (Plot 1)	>0 to 5 degrees downslope	0m to lot boundary.	BAL FZ and BAL 40	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
	Grassland Type G (Plot 2)	>5 to 10 degrees downslope	0m	BAL FZ	23m APZ and BAL 12.5 can apply to the BE.
	Grassland Type G (Plot 6)	>0 to 5 degrees downslope	0m	BAL FZ	20m APZ and BAL 12.5 can apply to the BE.
	Woodland Type B (Plot 9)	>0 to 5 degrees	0m to lot boundary.	BAL FZ and BAL 40	BAL 29, BAL 19 and BAL 12.5 can apply to the BE.
19 Existing House	Forest Type A (Plot 1)	>0 to 5 degrees downslope	21m	BAL 29 can apply	N/A
	Grassland Type G (Plot 2)	>5 to 10 degrees downslope	0m	BAL FZ	23m APZ and BAL 12.5 can apply to the BE.
Special Use Area (Chalets)	Forest Type A (Plot 1)	>0 to 5 degrees downslope	11-25m	BAL FZ	Modification 21m APZ applied and BAL 29 can apply

Table 4: BAL Allocation cont.

Where multiple BAL allocations are shown on Table 3, the highest BAL is to apply to the building.

Assumptions made in BAL Contour Mapping:

- The Subject Site will be developed according to the Structure Plan (Ayton Baesjou Planning, 2016) (Figure 1).
- Low fuel areas associated with Asset Protection Zones (APZ) are recommended as a minimum of 20-23m in grassland areas (plot 2 and 6) to maintain BAL 12.5. See Section 6.2 for more detail.
- The owner of the Subject Site will maintain grasslands internal to the site (balance of land) at all times in a low fuel state (i.e. slashed to <100mm) for a minimum distance of 100m from any dwellings or construction areas.

6.5. Identification of bushfire hazard issues

Bushfire hazards identified for the site are the unmanaged forested areas along the King River foreshore (north) and grazed pastures to the south and unmanaged grasslands to the east. Remnant forest vegetation through the central area of the Subject site is located upslope of any dwellings and therefore has a reduced radiant heat intensity. It is also surrounded by moderate hazards ("Island effect") which also reduces the intensity of the bushfire threat from this area. The Structure Plan proposes large lots which allows for adequate setbacks to the bushfire hazards.







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7. Assessment to the bushfire protection criteria

The Guidelines for Planning in Bushfire Prone Areas (WAPC, 2017) outlines bushfire protection criteria which subdivision and development proposals are assessed for compliance. The bushfire protection criteria (Appendix 4, WAPC, 2017) are a performance based criteria utilised to assess bushfire risk management measures and they outline four elements, being:

- Element 1: Location
- Element 2: Siting and Design of Development;
- Element 3: Vehicle Access; and
- Element 4: Water.

(WAPC, 2017)

The Plan of subdivision(s) is required to meet the "Acceptable Solutions" of each Element of the bushfire mitigation measures (WAPC, 2017). The proposal will be assessed against the bushfire protection criteria Acceptable Solutions for Elements A1, A2, A3 and A4. A summary of the assessment is provided below in Table 4. The following sections of this report outlines how the proposal complies with the bushfire protection criteria Acceptable Solutions as per the Guidelines for Planning in Bushfire Prone Areas (WAPC, 2017).

The Subject Site was assessed against the bushfire protection criteria Acceptable Solutions for Elements A1, A2, A3 and A4. Please refer to the summary table below and the detailed assessment in Sections 6.1-6.4.

Element	Acceptable Solution	Applicable or not Yes/No	Meets Acceptable Solution
Element 1 – Location	A1.1 Development Location	Yes	Compliant BAL 29 or less applied to lots, existing house and chalets BAL 29 applied.
Element 2 – Siting and Design	A2.1 Asset Protection Zone	Yes	Compliant, APZ area in BE's to BAL 29 or less. APZ area to be specified through approval of BMP and reference in CoA Fire Management Notice.
Element 3 – Vehicular Access	A3.1 Two Access Routes A3.2 Public Road A3.3 Cul-de-sacs A3.4 Battle axes A3.5 Private driveways A3.6 Emergency Access Ways A3.7 Fire Service Access Ways A3.8 Firebreaks	Yes Yes Yes N/A Yes Yes N/A Yes	Compliant two access points to 2 destinations Compliant – meet Table 5 Compliant – meet Table 5 N/A Compliant – meet Table 5 Compliant – meet Table 5 N/A Compliant on parent lot, applicable to future lots
Element 4 – Water	A4.1 Reticulated areas A4.2 Non-reticulated areas A4.3 Individual lots in non- reticulated areas	N/A Yes Yes	Compliant to WCWA Standards N/A N/A

Table 5: Bushfire protection criteria applicable to the site



7.1. Element 1: Location

Intent: To ensure that strategic planning proposals, subdivision and development applications are located in areas with the least possible risk of bushfire to facilitate the protection of people, property and infrastructure.

Acceptable Solutions

A1.1 Development Location: the strategic planning proposal, subdivision and development application is located in an area that is or will, on completion, be subject to either a moderate or low Bushfire hazard level or BAL-29 or below (WAPC, 2017).

Assessment to Acceptable Solutions

A1.1 Development Location: The publicly released Bushfire Prone Mapping (DFES 2017) indicates this area as bushfire prone. The BAL Contour Plan (Figure 7 and 8) prepared demonstrates the BAL Contours upon completed construction of the subdivision, demonstrating the dwellings could be subject to BAL 29, BAL 19 and BAL 12.5 in Building envelopes (BE'S) depending on final placement of buildings. No higher than BAL 29 should apply to any proposed dwellings in the defined BE's, refer to Table 4. The existing dwelling can achieve BAL 29, some minor clearing (selective tree removal and understorey modification) is required to achieve BAL 29 on the southern side of the chalets.

Internal areas of Grassland Type G (Plot 6 and Plot 2) **have not been mapped on the BAL Contour Plan** with BAL-FZ applicable to the whole of site. A 20m-23m APZ area will apply to ensure that all proposed buildings will be in Building Envelopes and will be subject to a BAL rating of BAL- 29 to BAL-12.5. The 20m-23m APZ has been specified for each lot for internal grassland areas (Plot 6 and 2) and shall be designated over the lots through this approved BMP and the design guidelines for the subdivision. It is recommended that the City of Albany continue to refer to the approved BMP as part of their fire management order. Refer to Section 6.2 for more detail.

The "Special Use Zone" is proposed in the central portion of the site, which currently has approved chalet business. An individual Bushfire Management Plan and Bushfire Emergency Evacuation Plan's (BEEP) may be required for this area for any future Planning Approval's as tourism is defined as a "Vulnerable land use" as per SPP3.7 (WAPC, 2015).

If the subdivision is staged, then the developer may need to submit plans with the staged subdivision application outlining any site works undertaken as recommended in report (i.e. fuel reduction) and an updated BAL contour plan over the staged construction area. Staged construction is to incorporate maintenance of the balance of land in a low fuel state to ensure BAL is maintained as shown in the BAL Contour Plan, refer to Section 6.2.

Recommendations

The recommendations arising from the assessment of the Structure Plan to Element 1: Location:

- Development is deemed compliant to A1.1 due to:
 - No higher BAL allocation than BAL 29 will apply to buildings upon completion of subdivision;
 - The existing house can maintain BAL 29 on the building; and
 - The with some modification along the southern side the chalets can maintain BAL 29 on the buildings.
- The developer will be responsible for the implementation of a notification on title pursuant to Section 70A of the Transfer of Land Act 1893 for all lots affected by an increase in construction standards consistent with a BAL rating/AS3959-2009 allocation to the lot.


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• Individual BAL assessments may be considered on the lots by the new owners when dwelling design/placement is known and can be undertaken at building approval stages with the engagement of an Accredited Level 1 BAL Assessor.



7.2. Element 2: Siting and Design

Intent: To ensure that the siting and design of development minimises the level of bushfire impact.

Acceptable Solutions

A2.1 Asset Protection Zone (APZ): every habitable building is surrounded by, and every proposed lot can achieve, an APZ depicted on submitted plans, which meets the following requirements:

- Width: Measured from any external wall or supporting post or column of the proposed building, and of sufficient size to ensure the potential radiant heat impact of a bushfire does not exceed 29kW/m² (BAL-29) in all circumstances.
- Location: the APZ should be contained solely within the boundaries of the lot on which the building is situated, except in instances where the neighbouring lot or lots will be managed in a low-fuel state on an ongoing basis, in perpetuity (see explanatory notes).
- **Management:** the APZ is managed in accordance with the requirements of 'Standards for Asset Protection Zones'.

(WAPC, 2017)

An Asset Protection Zone (APZ) is an area surrounding a building that is managed to reduce the bushfire hazard to an acceptable level (WAPC, 2017). This is also defined as a "defendable zone". Any buildings will have an APZ utilising Low threat or non-vegetated areas as classified by AS3959-2009 Section 2.2.3.2. Any replanting, revegetation and landscaping across the lots is to be to an APZ standard as per WAPC Guidelines V 1.1 (WAPC, 2017) as outlined below.

WAPC Guidelines for an APZ (WAPC, 2017)

Fences: within the APZ are constructed from non-combustible materials (e.g. iron, brick, limestone, metal post and wire). It is recommended that solid or slatted non-combustible perimeter fences are used.

Objects: within 10 metres of a building, combustible objects must not be located close to the vulnerable parts of the building i.e. windows and doors.

Fine Fuel load: combustible dead vegetation matter less than 6 millimetres in thickness reduced to and maintained at an average of two tonnes per hectare.

Trees (> 5 metres in height): trunks at maturity should be a minimum distance of 6 metres from all elevations of the building, branches at maturity should not touch or overhang the building, lower branches should be removed to a height of 2 metres above the ground and or surface vegetation, canopy cover should be less than 15% with tree canopies at maturity well spread to at least 5 metres apart as to not form a continuous canopy. See Figure 9 (WAPC Figure 16, Appendix 4) below.



Figure 9: Tree Canopy Coverage – ranging from 15 to 70% at maturity (WAPC, 2017)

Shrubs (0.5 metres to 5 metres in height): should not be located under trees or within 3 metres of buildings, should not be planted in clumps greater than 5m² in area, clumps of shrubs should be separated from each



other and any exposed window or door by at least 10 metres. Shrubs greater than 5 metres in height are to be treated as trees.

Ground covers (<0.5 metres in height): can be planted under trees but must be properly maintained to remove dead plant material and any parts within 2 metres of a structure, but 3 metres from windows or doors if greater than 100 millimetres in height. Ground covers greater than 0.5 metres in height are to be treated as shrubs.

Grass: should be managed to maintain a height of 100 millimetres or less.

(WAPC, 2017).

Assessment to Acceptable Solutions

A2.1 Asset Protection Zone (APZ): All future buildings can achieve an APZ area associated with a BAL allocation of BAL 29, BAL 19 or BAL 12.5 in designated BE's Internal areas of Grassland Type G (Plot 6) <u>have</u> <u>not been mapped on the BAL Contour Plan</u> with BAL-FZ applicable to the whole of site. A 20m-23m APZ area will apply to ensure that all proposed buildings will be in Building Envelopes and will be subject to a BAL rating of BAL- 29 to BAL-12.5. The 20m-23m APZ has been specified for each lot and shall be designated over the internal grassland lots through this approved BMP and the design guidelines for the subdivision. It is recommended that the City of Albany continue to refer to the approved BMP for the estate as part of their fire management notice. The 2017/18 CoA Fire Management Notice currently refers to Bushfire Management Plans and that property owners are to comply with the conditions of the plan.

The existing dwelling can achieve an APZ area consistent with BAL 29. The Chalets require some minor clearing (selective tree removal and understorey modification) achieve BAL 29 on the southern side of the chalets. This will ensure that there is 21m from forest areas and will also ensure the existing buildings are complaint to the CoA Fire Management Order (Asset Protection Zone).

The developer will be responsible for maintenance of the site until ownership is relinquished to new lot owners, this will include maintenance of internal grassland areas to APZ requirements to 100m from any dwellings or construction areas.

Any future plantings as shown in revegetation and landscaping areas are to be to a APZ standard as outlined in this report. New lot owners are to conform to any planting on their lot for revegetation, screening or windbreaks to APZ standards.

The Structure Plan is deemed to be compliant with A2.1.

Recommendations

The recommendations arising from assessment of the Structure Plan to Element 2: Siting and design:

- A minimum APZ area of 20m to apply to the lots in grassland areas;
- All BE's are aligned in BAL 29 or lower to adjacent bushfire risks;
- The developer is to maintain the balance of land in ownership as per APZ standards (WAPC, 2017), with grasslands to a minimum of 100m from any future dwellings or dwelling construction sites; and
- Any future landscaping, revegetation or replanting is to conform to APZ standards.



7.3. Element 3: Vehicle Access

Intent: To ensure that the vehicular access serving a subdivision/development is available and safe during a bushfire event.

Acceptable Solutions

A3.1 Two access routes: Two different vehicular access routes are provided, both of which connect to the public road network, provide safe access and egress to two different destinations and are available to all residents/the public at all times and under all weather conditions.

A3.2 Public road: A public road is to meet the requirements in Table 5, Column 1.

A3.3 Cul-de-sac (including a dead-end road): A cul-de-sac and/or a dead end road should be avoided in bushfire prone areas. Where no alternative exists (i.e. the lot layout already exists and/or will need to be demonstrated by the proponent), the following requirements are to be achieved: Requirements in Table 5, Column 2; Maximum length: 200 metres; and Turn-around area requirements, including a minimum 17.5 metre diameter head.

A3.4 Battle-axe: Battle-axe access leg should be avoided in bushfire prone areas. Where no alternative exists, (this will need to be demonstrated by the proponent) all of the following requirements are to be achieved: Requirements in Table 5, Column 3; Maximum length: 600 metres; and Minimum width: 6 metres.

A3.5 Private driveway: longer than 50 metres A private driveway is to meet all of the following requirements: Requirements in Table 5, Column 3; Required where a house site is more than 50 metres from a public road; Passing bays: every 200 metres with a minimum length of 20 metres and a minimum width of two metres (i.e. the combined width of the passing bay and constructed private driveway to be a minimum six metres); Turnaround areas designed to accommodate type 3.4 fire appliances and to enable them to turn around safely every 500 metres (i.e. kerb to kerb 17.5 metres) and within 50 metres of a house; and any bridges or culverts are able to support a minimum weight capacity of 15 tonnes. All-weather surface (i.e. compacted gravel, limestone or sealed).

A3.6 Emergency access way: An access way that does not provide through access to a public road is to be avoided in bushfire prone areas. Where no alternative exists (this will need to be demonstrated by the proponent), an emergency access way is to be provided as an alternative link to a public road during emergencies. An emergency access way is to meet all of the following requirements: – Requirements in Table 4, Column 4; – No further than 600 metres from a public road; – Provided as right of way or public access easement in gross to ensure accessibility to the public and fire services during an emergency; and – Must be signposted.

A3.7 Fire service access routes (perimeter roads): Fire service access routes are to be established to provide access within and around the edge of the subdivision and related development to provide direct access to bushfire prone areas for fire fighters and link between public road networks for firefighting purposes. Fire service access routes are to meet the following requirements: Requirements Table 5, Column 5; Provided as right of ways or public access easements in gross to ensure accessibility to the public and fire services during an emergency; Surface: all-weather (i.e. compacted gravel, limestone or sealed) Dead end roads are not permitted; Turn-around areas designed to accommodate type 3.4 appliances and to enable them to turn around safely every 500 metres (i.e. kerb to kerb 17.5 metres); No further than 600 metres from a public road; Allow for two-way traffic and Must be signposted.

A3.8 Firebreak width: Lots greater than 0.5 hectares must have an internal perimeter firebreak of a minimum width of three metres or to the level as prescribed in the local firebreak notice issued by the local government.



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Technical requirements	Public Road	Cul-de- sacs	Private Driveways	Emergency Access Ways (EAW)
Minimum trafficable surface (m)	*6	6	4	*6
Horizontal clearance (m)	6	6	6	6
Vertical clearance (m)	4.5	4.5	4.5	4.5
Maximum grades	1 in 10	1 in 10	1 in 10	1 in 10
Minimum weight capacity (t)	15	15	15	15
Maximum crossfall	1 in 33	1 in 33	1 in 33	1 in 33
Curves minimum inner radius (m)	8.5	8.5	8.5	8.5
Maximum Length	N/A	200m	50m	600m

Table 6: Vehicular Access Technical Requirements (WAPC, 2017)

*Denotes the width can include a 4m wide paving with one metre wide constructed road shoulders

Assessment to Acceptable Solutions

A3.1 Two access routes: The subdivision meets the Acceptable Solution, with the design allowing for twoway traffic and safe egress from the subdivision via the existing road network of Willyung Road, the extension/linking of Greenwood Drive and an EAW linking the central cul-de-sac to Kelty View (see Section 3.6 over the page). Willyung Road is a CoA managed road which provides for access to the east and the west (two separate destinations) in a bushfire emergency. Refer to the access Plan Figure 10 below.



Figure 10: Access Plan

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Lots 44 & 46 Bilaboya Place & Lot 9041 Willyung Road - Bushfire Management Plan

The existing cul-de-sac in the north is a legacy from previous subdivisions and cannot be avoided (see Section A3.3 below). A Strategic firebreak/fire access is in existence along the northern boundary of the subject site and along the existing private property, see Photograph 20 below. The existing strategic fire access gives people a secondary access option if the cul-de-sac is not useable in a bushfire emergency.



Photo 20: View of Strategic Fire Break/Access from the south along the King River.

It is noted that the signage on this access is presently not acknowledging the Strategic Fire Break/Fire Access requirements, this matter is to be brought to the attention of City of Albany Rangers.

All lots have a minimum of two alternative access options to separate destinations. If the subdivision is staged, linking two-way access is to be demonstrated on plans prior to approval of the subdivision. The Structure Plan deemed compliant with A3.1.

A3.2 Public roads: All internal public roads shall be constructed with a minimum of 21m road reserves (measured) meeting the minimum construction requirements. The Vehicular Access Standards (Refer to Table 5 – Column 1) and relevant technical information shall be detailed in civil engineering designs at subdivision stage to be approved by the Shire. The Structure Plan is deemed compliant to Acceptable Solution A3.2.

A3.3 Cul-de-sac: Cul-de-sacs are to be avoided in bushfire prone areas. One cul-de-sacs is in existence (Bilaboya Place) in the north which is a legacy issue from previous subdivision/structure plan and cannot be avoided. This cul-de-sac is joined by a Strategic fire access linking back to near Kelty View. This cul-de-sac cannot be avoided due to the presence of King River to the north and a tributary to the east which has steep slopes and remnant vegetation worthy of protection. Environmental and heritage issues restrict further access into this area, hence a cul-de-sac is required.

A cul-de-sac is proposed in the central area of the Structure Plan, a linking EAW is proposed to connect through to Kelty View to allow for secondary access for the lots off the cul-de-sac. The EAW along the north of the Special Use Area is to be provided as an easement in gross, and can be gated but not locked, refer to Section 3.6 below. The cul-de-sac cannot be avoided due to the Special Use area to the south which requires a separate private entry to the site.

The two cul-de-sacs measure 142m (Bilaboya Place) and 120m (proposed off Greenwood Drive) in length meeting Table 5, column 2. Construction of the cul-de-sacs is to meet the minimum technical requirements of Table 5 column 2 and engineering designs to be approved by the CoA at Subdivision condition stages.

The Structure Plan with inclusion of linking EAW deemed to meet Acceptable Solution A3.3.

A3.4 Battle-axe: Battle Axes are to be avoided in bushfire prone areas. No battle axes are proposed for this development. The Structure Plan not assessed to Acceptable Solution A3.4.

A3.5 Private driveways: Private driveways will conform to the minimum technical standards as outlined in Table 4 – Column 3. Driveways do not exceed 50m, suitable cross overs are to be constructed onto public



roads, with final placement of the driveway the responsibility of the new lot owner. Technical standards of driveways are to conform to Table 5, column 3.

The Structure Plan is deemed compliant to Acceptable Solution A3.5.

A3.6 Emergency access ways: Emergency Access Ways (EAW) will apply in the central area to link the culde-sac to the public road network. The EAW will be an easement in gross to allow unimpeded access for residents at all times. The EAW measures 230m long and a minimum of 6 -20m wide, meeting the minimum requirements of WAPC guidelines. The EAW is to be constructed as per the technical standards outlined in table 5 column 4 and detailed in civil engineering drawings to be approved by CoA at subdivision condition stages.

The EAW can be gated (gates to be a minimum width of 3.6m) but not locked to ensure there is access to the public available at all times. Signage is to be approved by the CoA prior to implementation.

The Structure Plan is deemed to meet Acceptable Solution A3.6.

A3.7 Fire Service Access Routes: Fire Service Access (FSA) Routes will not apply to this subdivision as the public roads will be utilised, an existing FSA existing in the north and will continue to apply under the CoA Scheme.

The subdivision plan not assessed to Acceptable Solution A3.7.

A3.8 Firebreaks: Firebreaks are in existence on the Subject Site and maintained regularly by the current owners. These will be maintained as per the CoA Fire break notice (updated annually) until developed. Fire breaks will be required on the new lots as per the CoA Fire Management Notice – fire breaks are to be located within 20m of the property boundary and must be 3m wide with 4m vertical clearance. The new lots will need to comply with this notice.

The subdivision plan deemed compliant with A3.8.

Recommendations

The recommendations from assessment of the subdivision plan to Element 3: Vehicular Access:

- Is deemed compliant with Element 3 as it meets the Acceptable Solutions as outlined A3.1 to A3.8;
- The new lot owner implements the driveway construction standards as outlined in Table 5; and
- Fire breaks as per the requirements in the CoA Management Notice maintained by the owner and in the newly created lots (refer to the CoA current fire management notice, annually updated).



Lots 44 & 46 Bilaboya Place & Lot 9041 Willyung Road - Bushfire Management Plan

7.4. Element 4: Water

Intent: To ensure that water is available to the subdivision, development or land use to enable people, property and infrastructure to be defended from bushfire.

Acceptable Solutions

A4.1 Reticulated areas: The subdivision, development or land use is provided with a reticulated water supply in accordance with the specifications of the relevant water supply authority and Department of Fire and Emergency Services.

A4.2 Non-reticulated areas: Water tanks for firefighting purposes with a hydrant or standpipe are provided and meet the following requirements: Volume: minimum 50,000 litres per tank; Ratio of tanks to lots: minimum one tank per 25 lots (or part thereof); Tank location: no more than two kilometres to the further most house site within the residential development to allow a 2.4 fire appliance to achieve a 20 minute turnaround time at legal road speeds; Hardstand and turn-around areas suitable for a type 3.4 fire appliance (i.e. kerb to kerb 17.5 metres) are provided within three metres of each water tank; and Water tanks and associated facilities are vested in the relevant local government.

A4.3 Individual lots within non-reticulated areas (Only for use if creating 1 additional lot and cannot be applied cumulatively): Single lots above 500 square metres need a dedicated static water supply on the lot that has the effective capacity of 10,000 litres.

Assessment to Acceptable Solutions

A4.1 Reticulated areas: The development will be provided with reticulated scheme water in accordance with the specifications of the relevant water supply authority (Water Corporation WA (WCWA)) and DFES requirements. This will be detailed in the detailed engineering drawings and be subject to approval from WCWA and the CoA at subdivision condition stages, meeting the Acceptable Solution. Fire hydrant (street) outlets are required, these must be installed to WCWA standards installed in accordance with the *Water Corporation's No 63 Water Reticulation Standard* and are to be identified by standard pole and/or road markings and installed by the Developer.

The plan of subdivision deemed compliant to Element 4 – Water Acceptable Solution A4.1.

A4.2 Non-reticulated areas: The development not assessed to Acceptable Solution 4.2.

A4.3 Individual lots within non-reticulated areas: The development not assessed to Acceptable Solution A4.3.

Recommendations

The recommendations from assessment of the subdivision plan to Element 4: Water:

• The development will be provided with reticulated scheme water in accordance with the specifications of the relevant water supply authority (Water Corporation WA (WCWA)) and DFES requirements, detailed in plans and approved by the CoA prior to subdivision approval.



8. Other Fire Mitigation Measures

8.1. Evaporative air conditioners

Evaporative air conditioning units can catch fire as a result of embers from bushfires entering the unit. These embers can then spread quickly through the home causing rapid destruction. It can be difficult for fire-fighters to put out a fire in the roof spaces of homes.

It is also recommended that the lot owner:

- Ensure that suitable external ember screens are placed on roof top mounted evaporative air conditioners compliant with AS3959-2009 (current and endorsed standards) and that the screens are checked annually; and
- Maintain evaporative air conditioners regularly as per DFES recommendations, refer to the DFES website for further details: http://www.dfes.wa.gov.au

8.2. Barrier Fencing

In November 2010 the Australian Bushfire CRC issued a "Fire Note" (Bushfire CRC, 2010) which outlined the potential for residential fencing systems to act as a barrier against radiant heat, burning debris and flame impingement during bushfire. The research aimed to observe, record, measure and compare the performance of commercial fencing of Colourbond steel and timber (treated softwood and hardwood).

The findings of the research found that:

".. Colourbond steel fencing panels do not ignite and contribute significant heat release during cone calorimeter exposure" (exposure to heat)

.."Colourbond steel (fencing) had the best performance as a non-combustible material. It maintained structural; integrity as a heat barrier under all experimental exposure conditions, and it did not spread flame laterally and contribute to fire intensity during exposure"

It is also noted that non-combustible fences are recommended by WAPC (APZ standards: Fences and sheds within the APZ are constructed using non-combustible materials e.g. colourbond iron, brick, limestone, metal post and wire). The developer/lot owner will be encouraged to build Colourbond or non-combustible fences where applicable.



9. Responsibilities for implementation

9.1. Future Lot owner's Responsibility

It is recommended the future property owners shall be responsible for the following:

Lot owr	ner– Ongoing management		
No	Implementation Action	Annual	All times
1	Individual BAL assessments may be considered on the lots by the new owners when dwelling design/placement is known and can be undertaken at building approval stages with the engagement of an Accredited Level 1 BAL Assessor		
2	Maintain APZ around dwellings areas at all times		$\mathbf{\nabla}$
3	The lot owner implements the driveway construction standards as outlined in Table 5, column 3.		
	Individual BAL assessments may be considered on the lots by the new owners when dwelling design/placement is known and can be undertaken at building approval stages with the engagement of an Accredited Level 1 BAL Assessor.		

9.2. Developer's responsibility

It is recommended the developer be responsible for the following:

Develope	er – Prior to issue of titles	
No	Implementation Action	Subdivision
		Clearance
1	Notification on title 70A of the Transfer of Land Act 1893 to alert prospective owners that the lots are located in a bushfire prone area and may be subject to increased construction standards to AS3959.	
2	Maintain balance of land in ownership in a low fuel state (APZ standards) at all times.	
3	Ensure Vehicle Access constructed to Table 5 standards.	
4	Signage of the EAW from Kelty View to SUA is to be approved by the CoA prior to implementation.)[]

9.3. Local Government Responsibility

It is recommended the CoA be responsible for the following:

LGA-Cle	earance of conditions	
No	Implementation Action	Subdivision
		Clearance
1	Ensure Vehicle Access constructed to Table 5 standards.	
2	If the subdivision is staged then updated BAL Contour plans and access plans may be required indicating any staged construction or	
	deviation from this BMP Plan.	
4	Signage to be approved by the CoA prior to installation at the EAW from Kelty View to SUA.	
5	Reticulated water and hydrant design to approval from WCWA and the CoA at subdivision clearance stages.	
6	Ensure the annual fire Management Notice continues to refer to approved Bushfire Management Plans so that APZ areas in grassland are not subject to BAL FZ.	



Lots 44 & 46 Bilaboya Place & Lot 9041 Willyung Road - Bushfire Management Plan

10. Disclaimer

The recommendations and measures contained in this assessment report are based on the requirements of the Australian Standards 3959-2009 – Building in Bushfire Prone Areas, WAPC State Planning Policy 3.7 (WAPC, 2015), WAPC Guidelines for Planning in Bushfire Prone Areas (WAPC, 2015), and CSIRO's research into Bushfire behaviour. These are considered the minimum standards required to balance the protection of the proposed dwelling and occupants with the aesthetic and environmental conditions required by local, state and federal government authorities. They DO NOT guarantee that a building will not be destroyed or damaged by a bushfire. All surveys and forecasts, projections and recommendations made in this assessment report and associated with this proposed dwelling are made in good faith on the basis of the information available to the fire protection consultant at the time of assessment. The achievement of the level of implementation of fire precautions will depend amongst other things on actions of the landowner or occupiers of the land, over which the fire protection consultant has no control. Notwithstanding anything contained within, the fire consultant/s or local government authority will not, except as the law may require, be liable for any loss or other consequences (whether or not due to negligence of the fire consultant/s and the local government authority, their servants or agents) arising out of the services rendered by the fire consultant/s or local government authority.

AS3959-2009 disclaimer: It should be borne in mind that the measures contained within this Standard (AS3959-2009) cannot guarantee that a building will survive a bushfire event on every occasion. This is substantially due to the unpredictable nature and behaviour of fire and extreme weather condition. (AS3959, 2009)

Building to AS39590-2009 is a standard primarily concerned with improving the ability of buildings in designated bushfire prone areas to better withstand attack from bushfire thus giving a measure of protection to the building occupants (until the fire front passes) as well as to the building itself.

SECTION 8: Certification

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009 (Incorporating Amendment Nos 1, 2 and 3) and the Guidelines for Planning in Bushfire Prone Areas Ver 1.1 (WAPC, 2017).

Note: this certification is from the date as shown below, the Bushfire Practitioner cannot be responsible/liable for any subsequent updates or reviews of WAPC guidelines after with, unless commissioned to review, update or withdraw this signed assessment.

SIGNED, ASSESSOR:

Kathryn Kinnear, Bio Diverse Solutions Accredited Level 2 Bushfire Practitioner (Accreditation No: BPAD30794)





11/2/2017

DATE:

11. References

AS 3959-2009 Australian Standard, *Construction of buildings in bushfire-prone areas*, Building Code of Australia, Primary Referenced Standard, Australian Building Codes Board and Standards Australia.

Bushfire CRC (2010) *Managing Forest in South West Western Australia*, Research project undertaken by Dr Lachlan McCaw and Dr Roy Wittkuhn, retrieved from: <u>http://www.bushfirecrc.com/projects/b11/managing-forest-fires-south-western-australia</u>

City of Albany Fire Management Notice, yearly advise brochure, accessed July 2017 from: <u>http://www.albany.wa.gov.au</u>

Department of Fire and Emergency Services Website accessed July 2017: http://www.dfes.wa.gov.au

Western Australian Planning Commission (WAPC) (2017) Guidelines for Planning in Bushfire Prone Areas Version 1.2. Western Australian Planning Commission and Department of Planning WA, Government of Western Australia.

Western Australian Planning Commission (WAPC, 2015) State Planning Policy 3.2 Planning in Bushfire Prone Areas. Department of Planning WA and Western Australian Planning Commission.

State Land Information Portal (SLIP) (2016) Map of Bushfire Prone Areas. Office of Bushfire Risk Management (OBRM) data retrieved from:

https://maps.slip.wa.gov.au/landgate/bushfireprone/



TRAFFIC CALMING DEVICES INFORMATION SHEET

This Q&A is intended to provide answers to commonly asked questions about the effectiveness and use of traffic calming devices.

Works & Services 2015



What are traffic calming devices?

Traffic calming devices are a form of local area traffic management

What types of traffic calming devices are there?

There are numerous devices used to calm traffic. They include, but are not limited to:

Speed humps - full width humps

Speed cushions - part width humps to allow large vehicles to travel unimpeded

Slow points/chicanes - kerbing treatments to break up traffic fl



When will the City of Albany consider traffic calming devices and how this will be measured?

Where average speeds are excessive The City will conduct monitoring to determine whether speeding is a pattern of behaviour or isolated users.

Where roads carry limited through traffi Roads in question will be analysed by a traffic engineer to determine if a road is a through road or not.

Away from intersections, bends or crests Traffic engineers will determine safe distances from these hazards.



For more information contact: Works & Services staff@albany.wa.gov.au 9841 9333 www.albany.wa.gov.au



REPORT ITEM DIS 101 REFERS

TRAFFIC CALMING DEVICES

This guideline aligns with the City of Albany's strategic objectives (Albany 2023) to have 'A Connected Built Environment'

When are traffic calming devices not appropriate and why?

When speeding is confined mostly to isolated users

Installing traffic calming devices to control isolated users creates unnecessary inconvenience to the majority of users.

Furthermore, history has shown that whilst speeds are often reduced, the isolated speed offender may use the device for other hazardous 'hooning' activities.

When the road is a through route

While road humps and speed cushions are effective at deterring vehicle speeds, they are known to also discourage through traffic which can result in vehicles seeking alternate routes (side roads or "Rat Runs").

This may cause the road network to perform less efficiently with longer travel times, more interaction at intersections etc. They are also known to cause discomfort for emergency vehicles, particularly ambulances.



What other measures that can be taken to reduce speeds?

Ultimately, the City is responsible for building road networks and the police are responsible for speed issues. However the City will consult with the police if there are recurring problems.

The City works collaboratively with the WA Police to ensure road environments and user behaviours are appropriate to each road, to provide a safe and efficient road network

Whilst the City would like to satisfy requests for traffic calming devices, their application and use must be carefully considered in each situation.



Schedule of Submissions					
		Local Structure Plan No.16 – Lot 9041 Willyung Road and L	ots 44 & 46 Bilaboya Place, Willyung.		
		Note: This is a broad summary of the s A copy of the submissions in full has been provided to th	ubmissions only. he Council as a separate document.		
NO.	SUBMITTER	COMMENTS – SUMMARIZED	CITY COMMENT AND RECOMMENDATION/MOD		
		UTILITIES			
1.	ATCO Gas	ATCO Gas Australia (ATCO Gas) has no objection to the proposed Structure Plan to facilitate the future development of the Lots, based on the information and plan provided. ATCO Gas does not operate gas mains and infrastructure within this area.	Note comment relating to gas. No recommendations necessary.		
2.	Water Corporation	The Water Corporation has two water mains (100mm and 150mm diameter) that run parallel to each other within an easement across the subject land. The easement follows the approximate alignment of the future extension of Greenwood Drive. At the subdivision stage the proponent will need to design the road reserve and pavement location to adequately accommodate the water mains	Note comment relating to design of road reserve to dealt with at the subdivision stage. No recommendations necessary.		
		BUSHFIRE			
3.	Department of Fire and Emergency Services	Annotate the BAL Contour Map to state clearly that Class G Grassland areas have not been contoured and that the lots are subject to BAL-40/BAL-FZ.	Uphold comment relating to amending BAL contour It is recommended that the BAL Contour Map is • State clearly that Class G Grassland area		
4.	Department of Fire and Emergency Services	Amend the BAL Contour Map to include proposed lot numbers.	are subject to BAL-40/BAL-FZ; andInclude proposed lot numbers.		
5.	Department of Fire and Emergency Services	Rename or remove the reference to 'building envelopes'; and identify indicative APZs.	Uphold comment relating to APZ's. It is recommended that building envelopes are that Asset Protection Zones can be located with		
6.		Bush Fire Management criteria asset protection zones appear to be inconsistent in the new proposal stating 10 metres from side and rear setbacks. I believe the current provision for Asset Protection in this area is now 20 meters from the lot boundary, which is not stipulated.	Note; Lot boundaries may need to be modified to en building development and asset protection.		
		Given the 1:100 Year Flood Level positioning remains in place, I do not believe there is sufficient room to allow for the required 20 meter Asset Protection Zone provision along with a residence on proposed lots 3 and 4 of the plan.			
		The creation of proposed lots 1 and 2 would create a "battleaxe" block at the rear, which would create further risks in relation to Bush Fire Management and property protection, both structural and environmental.			
		Additional stress will also be placed on the environment which must be valued considering all blocks are connected to the King River or the King River Creek, which are protected natural reserves.			
7.	Department of Fire and Emergency Services	Proposed lots 1 – 4 Bilaboya Place are approximately 340 metres from the intersection of Greenwood Drive, which then provides access to two different destinations. The Guidelines provides for a maximum of 200 metres only.	Note comment relating to access. Both Bilaboya Place and Greenwood Drive have b an existing structure plan, endorsed prior to State F		
		principle-based solution.			
8.		Fire access track gates should be installed at all ends of the fire access points to prevent unauthorised vehicles accessing the rear of properties and using the river reserve for antisocial behaviour. These access gates would still allow access for dog walkers, horse riders, cyclists and general recreational enjoyment of the river reserve.	Dismiss request to install gates on 'Emergency Acc Where possible, 'Emergency Access Ways' show impeded by blockades.		

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o accommodate water mains. This issue can be

ır map.

s annotated to: as have not been contoured and that the lots

re renamed as 'developable areas' to ensure thin lots.

ensure capacity is available within lots to achieve

been substantially developed in accordance with Planning Policy 3.7.

cess Ways' (fire access tracks).

ould be made accessible for vehicles and not

	TRAFFIC	
9.	There is significant traffic flow, from non-residents, along Greenwood Drive.	Dismiss request for the development of traffic calmin
	Rarely do they maintain 50kph or below	There are numerous devices used to calm traffic. The
		a) Speed humps - full width humps
	Should the link road go ahead, we propose the following:	b) Speed cushions - part width humps to allow
	Traffic calming measures/islands, be put in place, similar those recently constructed on	c) Slow points/chicanes – kerbing treatments to
	Coogee Street in Milpara, and would be both beneficial to slowing traffic and, preventing	Whilst the City would like to satisfy requests for tra
	perspective of the area which is the main reason people move to this suburb, to get away from	must be carefully considered in each situation. Insta
	continuous noise and traffic flow.	shown that whilst speeds are often reduced, the is
10.	To counteract impact from increased traffic flow due to extension of Greenwood Drive and help	other hazardous 'hooning' activities.
	ensure vehicles maintain a safe speed in this residential area, we would suggest the planning department consider the installation of 'slow points' on Greenwood Drive.	Rather than agreeing to install traffic calming devises to determine whether speeding is a pattern of behav responsible for speed issues.
	Drive is used by many walkers with dogs and/or children inclusive of young children on bikes. It	For further information, refer to the City's 'Traffic Ca
	is not a wide road and in many parts does not have a wide shoulder due to storm water drainage adjacent to the road. Thus measures to ensure traffic slows to safe speeds would be	Services 2015)'.
	considered vital in our opinion. The natural bends in the road have thus far not proved to be	
	effective in slowing down traffic.	
11.	With this proposal we will lose the country feel as an additional 19 dwellings in this area will	Dismiss comments relating to lot size and loss of ch
10	create a suburban feel and de-value our properties	The subject land is ranged (Creasial Desidential' area
12.	acres, or roughly 8000 square meters, in size. Therefore, our biggest concern is the group of	
	smaller lots (lots 10-17) that would be very out of place in the area.	The City's Local Planning Scheme states the followi
13.	 The City of Albany have zoned this area a Special Residential Zone which as per the Council's own objectives promotes for large, spacious residential lots which; Removes the land from rural development pressure; 	 Subdivision of SR11 shall generally be in accorr endorsed by the CEO, with any minor variations Commission
	 Preserves and enhances the landscape quality and visual amenity of the locality; 	2. The minimum lot size shall be $4,000m^2$.
	Promotes quality outcomes in built design and the siting and appearance of buildings	The structure plan proposes lots with a minimum size
	Biliboya Place is a small no through road, about 150m in length. There are currently 5	the City's scheme.
	properties within this area. The proposed development would stress this area having 7 separate properties (families) within this small street.	The structure plan is proposing an additional 10 lots
	More importantly, sub division to produce lots 1, 2, 3 and 4 would be inconsistent with other property sizes in the immediate area (Bilaboya Place). The production of small lot sizes on either side, and opposite larger blocks within this street does not enhance visual quality or	One extra lot will be created using Bilaboya Place a the cul de sac.
	amenity of the location, which is inconsistent to the objectives set by the Council as per the Council's own documentation.	Lots (11-17) have frontages in excess of 50m and a blend in with the surrounding lots.
	Examination of the proposed Local Structure Plan (no 16) shows larger existing blocks are consistent throughout Greenwood Drive, Kelty View and Biliboya Place (currently). This retains an attraction to the area and promotes consistent visual characteristics and enhances visual amenity to the location. This is the reason why I, along with others in the area, purchased in	It is recommended that the structure plan is amo and drainage management) of an access road to provision is to be included on the structure plan
	this area.	At the subdivision/development stage, the propo
	If proposed lots 1, 2, 3 and 4 proceed, the visual characteristic of this whole area will change and will not be pleasing to the eye, appearing messy and the creation of a "hap hazard" development, with the proposed lots looking like an "after thought". This would not support enhancement of quality visual amenity to the location.	constructed and drained at the landowner/applic government.
	All blocks of Bilaboya Place should support the same visual characteristics, retaining the appearance of the area, hence should not be sub divided.	

ng devices.

hey include, but are not limited to:

large vehicles to travel unimpeded

break up traffic flow.

affic calming devices, their application and use alling traffic calming devices to control isolated he majority of users. Furthermore, history has solated speed offender may use the device for

s. It is proposed that the City conduct monitoring iour or isolated users. Ultimately, the police are

Iming Devices – Information Sheet (Works and

aracter.

No11.

ing for the subject 'Special Residential' zone:

rdance with the Subdivision Guide Plan SR11 approved by the Western Australian Planning

e of 4600m² and is therefore in-compliance with

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and the lots will be of a similar size to those in

as revegetation occurs it is considered they will

ended to indicate the development (sealing proposed Lot 1 and Lot 9041. The following map:

osed access way to Lot 1 and Lot 9041, being cant's cost to the specifications of the local

Image: set on the set on apply to hat of proposed iofs 5-17 because these lots are booked and will another switch inderderdists of that area. (hey are individual observations in the set of the individual observations in the state of the set on set of s									
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appear consistent, hence not affecting the visual characteristics of the area. Note comment relating to wildlife conidor. 14. I wonder whether a vidifie conidor can be considered in the planning of the extra lots. This paddock is currently where the kanguagoes their by day and we enjoy where fuert in the evenings and early momings as they graze closer to home on vacant lots. It would be great if the we enjoy this awasome subdivision. Note comment relating to wildlife conidor. 16. We enjoy the fact that this area is there are has been an animal sanctuary in some aspects, and will be sad to see more of their habitat consumed. Again, we are not against developing the area. but please relating this area is integrit. It is a special neighbourhood at it was the set of the analytic please relating to changed 1:100 year flood level. 16. 1100 YEAR FLOOD LEVEL I purchased Lot 45 Blaboya Place. Wilying in 2015 where within settlement documents a sub set of weater local water sources (King River and the King River Creek). Note comment relating to changed 1:100 year flood level. 16. 1 purchased Lot 45 Blaboya Place. Wilying in 2015 where within settlement documents as the been relating envelope. Note comment relating to changed 1:100 year flood level. 16. 1 purchased Lot 45 Blaboya Place. Wilying in 2015 where within settlement documents as the been relating envelope. Note comment relating to wildlife conidor. 16. 1 purchased Lot 45 Blaboya Place. Wilking envelope. Note comment relating to wildlife. A 1:100 year flood beal to a settle so this weat in the n			and will attain similar visual characteristics to that area. They are all of similar size and would						
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Should it be determined that the proposed lots are capable of the intended residential land use, then the development should be in accordance with the DWER's <i>Floodplain development</i> strategy. This strategy recommends no development within the floodway and permits development (including the use of fill) within the flood fringe with the minimum habitable floor level to be 500mm above the 1% AEP flood event. 1 9.5 >12.5 12.8 1 9.5 >12.5 12.8 2 9.5 >10.5 10.8 3 8.5 9.5-10.5 9.8 r 4 8.5 9.0 -10.0 9.3 r			support the development of these lots. This relates to proposed lots 3, 4 and 8.		Ň	letres AHO		water protection	elevation
Should it be determined that the proposed lots are capable of the intended residential land use, then the development should be in accordance with the DWER's <i>Floodplain development</i> strategy. This strategy recommends no development within the floodway and permits development (including the use of fill) within the flood fringe with the minimum habitable floor19.5>12.512.829.5>12.512.838.59.5-10.59.848.59.0-10.09.3									
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strategy. I his strategy recommends no development within the floodway and permits development (including the use of fill) within the flood fringe with the minimum habitable floor level to be 500mm above the 1% AEP flood event.45 existing9.310.510.848.59.5-10.59.8 r48.59.0 -10.09.3 r				2	9	.5	>12.5	12.8	3.3
development (including the use of fill) within the flood fringe with the minimum habitable floor 3 8.5 9.5 - 10.5 9.8 I level to be 500mm above the 1% AEP flood event. 4 8.5 9.0 - 10.0 9.3 r			strategy. This strategy recommends no development within the floodway and permits	45 exist	sting 9	.3	10.5	10.8	1.5
level to be 500mm above the 1% AEP flood event. 4 8.5 9.0 -10.0 9.3 r			development (including the use of fill) within the flood fringe with the minimum habitable floor	3	8	.5	9.5-10.5	9.8 minimum	1.3-1.8
			level to be 500mm above the 1% AFP flood event	4	8	.5	9.0 -10.0	9.3 minimum	0.8-1.5
5 8.5 >11.0 11.3				5	8	.5	>11.0	11.3	2.8
6 85 >110 113				6	8	5	>11.0	11.3	28
7 85 515 410				7		5	>11.5	11.8	33
				0	0	.5	> 10.0	10.2	2.0
				0	8	.0	~ 10.0	10.3	2.0
9 8.5 > 13.0 13.3				9	8	.5	> 13.0	13.3	4.8

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		The predicted flood levels assume that there is r will impede the flood, and may slightly raise its e will be subject to potentially significant water eros The separation levels for other nearby lots such King River valley widens considerably. It is felt that the predicted flood elevations are con by other additional events or occurrences. In line with the Department of Water and E recommended that the following provision is in At the development stage, the minimum habits shall be 500mm above the datum height at the a
	EFFLUENT	
Department of Water and Environmental Regulation.	The site is located in a sewage sensitive area, as defined by the draft Government Sewerage Policy (GSP). Although the proposed lot size will be smaller than the minimum 1 ha as prescribed in the GSP, as the SR11 area is already established and with an approved minimum lot size of 4000m2, the proposed lot sizes are acceptable under provision 6.2 (6). However, all lots will require secondary treatment systems capable of removing nutrients. There are also requirements of 100m horizontal separation to waterways and creating a 1.5m vertical separation from the base of the effluent disposal system to the highest known groundwater level. It is acceptable to use fill to achieve this vertical separation. Although the creation of these new lots will increase nutrient loading to the site; the improved on-site effluent treatment systems, setbacks to waterways and the capability of the site soils for the intended land use will minimise the risk of nutrient export to the King River.	Note comments relating to effluent disposal. The following is already identified as provisions on • The use of nutrient absorbing effluent dispo • Effluent disposal areas to be setback 100 m
Department of	DRAINAGE LINE PROTECTION AREA	Linhold commont relating to wood management on
Water and Environmental Regulation.	area is going to be rehabilitated and managed into the long term. Although there is no ceding of land proposed to create a foreshore reserve, the management plan should identify weed control and revegetation plans. This plan should be provided to all future affected lot owners to assist their understanding of the importance of protecting waterways and the downstream environment.	Parts of the creek is currently inundated with Sydne It is recommended that the following provision At the development/subdivision stage, a reveg implemented for the revegetation of 'Drainage I
	Department of Water and Environmental Regulation.	EFFLUENT Department of Water and Environmental Regulation. The site is located in a sewage sensitive area, as defined by the draft Government Sewerage Policy (GSP). Although the proposed lot size will be smaller than the minimum 1 ha as prescribed in the GSP, as the SR11 area is already established and with an approved minimum lot size of 4000m2, the proposed lot sizes are acceptable under provision 6.2 (6). However, all lots will require secondary treatment systems capable of removing nutrients. Three are also requirements of 100m horizontal separation to waterways and creating a 1.5m vertical separation from the base of the effluent disposal system to the highest known groundwater level. It is acceptable under live is vertical separation. Although the creation of these new lots will increase nutrient loading to the site; the improved on-site effluent treatment systems, sebacks to waterways and the capability of the site soils for the intended land use will minimise the risk of nutrient export to the King River. Department of Water and Environmental Regulation. A foreshore management plan should be prepared to identify how the drainage line protection area is going to be rehabilitated and managed into the long term. Although there is no ceding of land proposed to create a foreshore reserve, the management plan should be identify weed control and revegetation plans. This plan should be provided to all future affected lot owners to assist their understanding of the importance of protecting waterways and the downstream environment.

REPORT ITEM DIS 101 REFERS

no development within the flood way as this levation at that point, and the development sion in a flood.

as Lot 3 is greater because at Lot 4 the

nservative, and are not likely to be impacted

Environmental Regulation comment, it is included on the structure plan map:

table floor level at proposed Lots 3, 4 and 8 adjacent 1:100 year flood boundary.

the structure plan map:

osal systems to be required on all lots; netres from drainage/creek lines.

nd rehabilitation of creek line.

ney Golden Wattle (weed).

is included on the structure plan map:

getation plan being prepared, approved and Line Protection' areas.

REPORT ITEM DIS 102 REFERS

CITY OF ALBANY

REPORT

То	•	His Worship the Mayor and Councillors
From	1	Information Officer - Development Services
Subject	4	Building Activity – May 2018
Date	;	1 June 2018

- 1. In May 2018, ninety six (96) building permits were issued for building activity worth \$10,733,400.00. This included one (1) demolition licence and two (2) sign licences.
- 2. The two (2) attached graphs compare the current City activity with the past three (3) fiscal years. One compares the value of activity, while the other compares the number of dwelling units.
- 3. A breakdown of building activity into various categories is provided in the Building Construction Statistics form.
- 4. Attached are the details of the permits issued for May 2018, the eleventh month of activity in the City of Albany for the financial year 2017/2018.

Zoe Sewell Information Officer – Development Services

CITY OF ALBANY

BUILDING CONSTRUCTION STATISTICS FOR 2017 - 2018

	SINGLE		GROUP			DOME	STIC/	ADDIT	'IONS/	HOTEL		NEW	1	ADDIT	/SNOI	OTHE	æ	TOTAL \$
2017-2018	DWELLING		DWELLING		let -	OUTB	UILDINGS	DWEL	LINGS	MOTEL	-	COMME	RCIAL (NMOC	1ERCIAL			VALUE
	No	\$ Value	No	\$ Value	οT	<u>2</u>	\$ Value	٥N	\$ Value	No	\$ Value	No \$	Value 1	201	\$ Value	No	\$ Value	
JULY	35	9,772,133	7	661,012	37	16	344,567	16	528,190	0	0	7	279,000	С	818,000	4	41,000	12,443,902
AUGUST	20	5,297,962	3	973,006	23	16	328,817	23	545,280	0	0	8	2,011,063	4	1,615,679	11	519,000	11,290,807
SEPTEMBER	12	4,431,744	e	700,240	15	15	319,910	35	865,282	0	0	2	1,336,500	e E	160,433	8	176,392	7,990,501
OCTOBER	18	5,708,639	0	0	18	14	257,250	29	1,042,409	0	0	1	381,032	9	808,975	8	286,865	8,485,170
NOVEMBER	21	8,050,632	0	0	21	22	328,786	24	688,035	0	0	2 3	2,186,179	6	595,250	8	75,000	41,923,882
DECEMBER	14	4,499,888	0	0	14	9	107,500	29	890,930	0	0	3	1,069,000	10	777,514	7	79,401	7,424,233
19																		
JA R UARY	16	4,116,644	2	519,711	18	8	134,645	21	514,630	0	0	1	360,800	2	170,000	11	176,750	5,993,180
FEBRUARY	18	4,151,304	-	213,406	19	18	570,087	30	1,675,569	0	0	2	194,182	5	334,661	15	282,977	7,422,186
MARCH	22	6,887,100	0	0	22	18	557,700	25	548,460	0	0	0	0	2	23,700	11	318,700	8,335,660
APRIL	13	4,074,198	2	312,600	15	14	334,588	19	314,045	0	0	4	1,864,565	5	1,654,847	8	75,878	8,630,721
МАҮ	26	7,840,013	3	968,066	29	13	247,400	24	1,256,034	0	0	1	52,250	4	196,650	13	172,987	10,733,400
JUNE																		
TOTALS TO				<u> </u>														
DATE	215	64,830,257	16	4,348,041	231	160	3,531,250	275	8,868,864	0	0	26 3	9,734,571	53	7,155,709	104	2,204,950	130,673,642

REPORT ITEM DIS 102 REFERS



REPORT ITEM DIS 102 REFERS



REPORT ITEM DIS 102 REFERS

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BUILDING, SIGN & DEMOLITION LICENCES ISSUED UNDER DELEGATED AUTHORITY

Applications determined for May 2018

Application	Builder	Description of Application	Street #	Property	Street Address	Suburb
Number	· · · · · · · · · · · · · · · · · · ·			Description		
162402	D & A HOLLAND	NEW DWELLING - UNCERTIFIED	55	Lot 121	VANCOUVER STREET	
162439	OCCUPANCY PERMIT	OCCUPANCY PERMIT - CLASS 5/6 -	236-238	Lot 24		IALBANY I
		OFFICE/SHOP BUILDING - CERTI		L]
162440	RISING SIGNS	SIGN - AMENDMENT TO ORIGINAL	346-348	Lot 91	MIDDLETON ROAD	
162449	WAUTERS	STEEL FRAME WORK AND RACKING	217	Lot S112	YORK STREET	
	ENTERPRISES PTY LTD	ISYSTEM INTO EXISTING TOWN HALL		 		
162454	MRYSTENBERG		124			
		ALTERATIONS & ADDITIONS TO	122	t	BRUNSWICK ROAD	ALBANY
102400			162			
162393		INEW DWELLING - UNCERTIFIED	118	Lot 2	ELIZABETH STREET	BAYONET HEAD
102000	COMPANY PTY LTD			; 	; ; 	, , ,
162400	OCCUPANCY PERMIT	OCCUPANCY PERMIT - TEMPORARY	88	Lot 305	COCKBURN ROAD	CENTENNIAL
i 162473	TECTONICS	INTERNAL FITOUT OF FASTFOOD	69-75	Lot 151		
	CONTRUCTIONS GROUP			İ	1	
162503			42-46	L ot 732	WELLINGTON STREET	
		OF JEHOVAH'S WITNESSES) -	12 10			
		OCCUPANCY PERMIT		 	 	PARK
162489	IRONMONGER BUILDING	DWELLING - CERTIFIED	303-305	Lot 3	EMU POINT DRIVE	COLLINGWOOD
162496	IRONMONGER BUILDING	CHANGE OF CLASSIFICATION -	303-305	Lot 3	EMU POINT DRIVE	COLLINGWOOD
	COMPANY	CLASS 1A DWELLING TO CLASS 6		i	·	IPARK
162335	DUNKELD	ALTERATIONS/ADDITIONS -	9	Lot 27	BOTTLEBRUSH ROAD	GLEDHOW
	CONSTRUCTION PTY					
162431	MODULARIS PTY LTD		34			
162452	CAVALIER HOLDINGS	TRANSPORTABLE BUILDING TO BE	102	Lot 122	SWAN POINT ROAD	KALGAN
	PTY LTD	USED AS ANCILLARY				
162460	MGUNN	SHED - UNCERTIFIED	40	Lot 121	HART VIEW	KING RIVER
162412	OCCUPANCY PERMIT	OCCUPANCY PERMIT - CLASS 6	162	Lot 1001	CHESTER PASS ROAD	LANGE
		SHOP (HAIRDRESSER) - CERTIFIED		; • - — - — - — -	, 	i
162441	RYDE BUILDING	NEW DWELLING - UNCERTIFIED	17	Lot 225	ELARAY WAY	LANGE
162200			178	L ot 50	BAY VIEW DRIVE	
102390		DWELLING - CERTIFIED	170			
162443	MATSON FABRICATIONS	TSHED - UNCERTIFIED	730	Lot 64	FRENCHMAN BAY	LITTLE GROVE
162463	TECTONICS	ALTERATIONS AND ADDITIONS TO	15	Lot 13	CONNELLY STREET	LITTLE GROVE
,	CONTRUCTIONS GROUP	EXISTING DWELLING & PATIO		: [۱ ۱	,]
162501	NORTH 2 SOUTH	ALTERATIONS & ADDITIONS	57	Lot 2	CHIPANA DRIVE	LITTLE GROVE
	EXECUTIVE HOMES PTY			1	1 1	
			11 15	<u> </u> ' ot 150	TOWNSEND STREET	
$\left \frac{16241}{162423} \right $		BUILDING APPROVAL CERTIFICATE -	114-126	$\frac{1}{100} \frac{1}{134}$	CUMING ROAD	LOCKYER
102423	CERTIFICATE	SHED - CERTIFIED			1	
162485	PLUNKETT HOMES (1903)	NEW DWELLING & RETAINING WALLS	7	Lot 438	GIFFORD STREET	LOCKYER
; ;	PTY LTD	- UNERTIFIED		; 	i 	,
162401	J JENNINGS	NEW DWELLING - CERTIFIED	39	Lot 191	BROOKS ROAD	LOWLANDS
162436	B WILLIAMS	WATER TANK - UNCERTIFIED	220	Lot 2842	THOMPSON ROAD	LOWLANDS
162389	JGOMM	NEW DWELLING & SHED -	81	Lot 547	AJANA DRIVE	MARBELUP
162392	OWNER BUILDER	CHANGE OF CLASSIFICATION -		ILot 46	LAITHWOOD CIRCUIT	MARBELUP
		CLASS 10A SHED TO CLASS 1A				i i
				t		
162404	OWNER BUILDER		56	LOL 204		
162406	OWNER BUILDER	PATIO - UNGERTIFIED	63			
162408	PULS PATIOS	PATIO - UNCERTIFIED	10B	Lot 2	SHERWOOD DRIVE	MCKAIL
162419	RYDE BUILDING	NEW DWELLING - UNCERTIFIED	3	Lot 673	PENTER WAY	MCKAIL
	COMPANY PTY LTD	Ì		Ì	İ	İ
162424	WA COUNTRY BUILDERS	NEW DWELLING - CERTIFIED	57	Lot 202	CELESTIAL DRIVE	MCKAIL
1	PTY LTD	·				i

REPORT ITEM DIS 102 REFERS

Application	Builder	Description of Application	Street #	Property	Street Address	Suburb
Number 162451	PLUNKETT HOMES (1903)	NEW SINGLE STOREY DWELLING -	36	Lot 266	CELESTIAL DRIVE	MCKAIL
			+	L of 701		
162462; 		BP#162226 - ALTERED LOCATION OF				
				Lot 211	PEGASUS	MCKAIL
162407	KOSTER'S OUTDOOR	SHED - UNCERTIFIED	23	Lot 75	LE GRANDE AVENUE	MCKAIL
162403	KOSTER'S OUTDOOR	PATIO - UNCERTIFIED	25	Lot 3	FLINDERS PARADE	MIDDLETON
		NEW TWO STOREY DWELLING &	ļ	L		
102410	GREGORI LEEDER	RETAINING WALLS (UNIT 2 ONLY)				BEACH
162434	OCCUPANCY PERMIT	OCCUPANCY PERMIT (STAGE 3) 1 X 1	28-32	Lot 1 2 148 4	ADELAIDE CRESCENT	MIDDLETON
162455		BEDROOM HOLIDAY UNIT ON LOT	L 6	Lot 309	BONTHORPE COURT	MILLBROOK
162466	HOME GROUP WA	NEW DWELLING - UNCERTIFIED	27	Lot 296	SILVERSTAR COURT	MILLBROOK
	GREAT SOUTHERN PTY		 +			
162394	RYDE BUILDING	IWATER TANK - UNCERTIFIED	2	Lot 136	IFRIESIAN RISE	
162435	WREN (WA) PTY LTD	NEW DWELLING & SHED -	23	Lot 139	HEREFORD WAY	MILPARA
162438	PULINKETT HOMES (1903)		40	Lot 113	HEREFORD WAY	MILPARA
			; +	; t		
162453	POCOCK BUILDING	NEW SINGLE STOREY DWELLING -	; 268A 	Lot 2		
162457	D BURCHAM	DECK AND PATIO - UNCERTIFIED	23	Lot 6	HANSON STREET	MIRA MAR
162467	J & M ELLIOT	NEW DWELLING - CERTIFIED	6	Lot 78	QUOKKA PLACE	
162494	WA COUNTRY BUILDERS	NEW DWELLING - UNCERTIFIED	4	Lot 77	QUOKKA PLACE	MIRA MAR
162500			† <u>-</u> 3	Lot 74	QUOKKA PLACE	MIRA MAR
		OUTBUILDING AND PATIO -	 +			
162445		EARTHWORKS AND RETAINING	139-143	Lot 14	MIDDLETON ROAD	
162499	OWNER BUILDER	RETAINING WALL & FENCE -	†7A	Lot 105	DENMAN ROAD	MOUNT
			<u> </u> 8	l 1 ot 22	LIFFFRIES STREET	MOUNT MELVILLE
162414	'NEWMAN'S CONCRETE	RETAINING WALL - UNCERTIFIED	 ; 2A	Lot 1	CAMFIELD STREET	MOUNT MELVILLE
162482		BUILDING APPROVAL CERTIFICATE -	30	Lot 84	LION STREET	MOUNT MELVILLE
		PATIO - CERTIFIED				
162430						
162471	IA MCGONNELL	DWELLING - CERTIFIED	440			
162390	IRONMONGER BUILDING	ADDITIONS TO EXISTING DWELLING -	242	Lot 110	FRENCHMAN BAY	ROBINSON
 		UNCERTIFIED	; +		ROAD	
162437	¦W & T HANBURY I	DWELLING ALTERATIONS &	16 	Lot 203		
	; [ICERTIFIED	Ĺ	L		
162491	OCCUPANCY PERMIT		35	Lot 147	NEWTON STREET	ROBINSON
162410	BLUEWATER TANKS	WATER TANK - UNCERTIFIED	20-24	Lot 108	DREW STREET	SEPPINGS
162426	L HARRIS	SHED - UNCERTIFIED	20-24	Lot 108	DREW STREET	SEPPINGS
162427	PLUNKETT HOMES (1903)		20-24	ILot 108	IDREW STREET	SEPPINGS '
162370	J BUSH	TRANSPORTABLE OFFICE & STAFF	+ 335	Lot 6487	DRAWBIN ROAD	SOUTH STIRLING
			<u> </u>	<u> </u>	HILLMAN STREET	SPENCER PARK
1	L HARRIS	SHED - UNCERTIFIED	+ <u></u> 93	Lot 76	PERKINS BEACH	TORBAY
			 	1 1 of 52		
162448 !	PTY LTD	SHED - CLASS 7B - CERTIFIED	01			
162459	RWIGNALL	PATIO - UNCERTIFIED	448	Lot 5496	CHESTER PASS ROAD	WALMSLEY
162346		ISHED - UNCERTIFIED	109	Lot 61	WARRENUP PLACE	WARRENUP
162409	WA COUNTRY BUILDERS	NEW DWELLING - UNCERTIFIED	47	Lot 137	RANDELL CRESCENT	WARRENUP
162415	RYDE BUILDING	NEW DWELLING AND WATER TANK -	109	9¦Lot 61	;WARRENUP PLACE	;WARRENUP I
162422	OWNER BUILDER	WATER TANK - UNCERTIFIED	+ 105	Lot 60	WARRENUP PLACE	WARRENUP
1	1	1	i	i	i	1

REPORT ITEM DIS 102 REFERS

Application	Builder	Description of Application	Street #	Property	Street Address	Suburb
Number				Description		
162444	PLUNKETT HOMES (1903)	SINGLE STOREY DWELLING -	101	Lot 55	WARRENUP PLACE	WARRENUP
1 1 1	PTY LTD		i +			
162477	DFARCAS	NEW DWELLING & SHED -	9	Lot 514	BOONAH COURT	WARRENUP
		UNCERTIFIED	 +	 		
j 162397	RYDE BUILDING	NEW DWELLING - UNCERTIFIED	1	Lot 821	NEVILE RISE	WILLYUNG
- <u></u>	COMPANY PTY LTD		+			
¦ 162405			; 12 I	Lot 110	NEGRI ROAD	
162411		GARAGE - UNCERTIFIED	4	100 403		
1		FACTORY/WORKSHOP - OCCUPANCY	529	Lot 10	CHESTER PASS ROAD	WILLYUNG
		PERMIT		1		
162464	WA COUNTRY BUILDERS	NEW DWELLING & WATER TANK -	r	Lot 709	VOKES COURT	WILLYUNG
1 1 1	PTY LTD	UNCERTIFIED	, , ,	; ; ;	, , , =	
162475	C & R GLIOSCA	AMENDMENT TO ORIGIONAL	[1	Lot 728	WESTON RIDGE	WILLYUNG
	L	BP#161993 - REDUCTION IN FLOOR	<u> </u>	L		
162479	K SHEPHERDSON	DEMOLITION OF SHED & STABLES	174	Lot 9005	WILLYUNG ROAD	WILLYUNG
162321	C PEARSON	REMOVE AND REPLACE EXISTING	67	Lot 559	BUTTS ROAD	YAKAMIA
¦		SWIMMING POOL - UNCERTIFIED	, , , ,			
162442	MATSON FABRICATIONS		176 <u>- 176</u>	Lot 19	INORTH ROAD	YAKAMIA
162456	OWNER BUILDER	AMENDMENT TO BP#161615	18	Lot 724	GALLE STREET	YAKAMIA
1		WALL/RIDGE HEIGHT & SMALLER	İ	ĺ		
162461						
E Contraction of the second se	IGREAT SOUTHERN PTT		l t	[1 2	
162470		NEW DWELLING - UNCERTIFIED	14	Lot 666	JUNIPER COURT	YAKAMIA
			İ	Ì		Í
162483	BUILDING APPROVAL	RETAINING WALLS REPOSITION UNIT	18	Lot 150	BARNESBY DRIVE	YAKAMIA
1	CERTIFICATE	A AMEND GARAGE WALL DETAIL	£ [t L	!]	e I
162484	PLUNKETT HOMES (1903)	NEW DWELLING - UNCERTIFIED	30	Lot 682	GALLE STREET	YAKAMIA
	PTY LTD					
162504	OWNER BUILDER	SHED AND RAINWATER TANK	Lot 912	Lot 912	HAYWARD CRESCENT	
161956	N BAIL	AMENDMENT TO ORIGINAL BUILDING	408	Lot 2541	EDEN ROAD	YOUNGS SIDING
1	, , 	PERMIT #290545	; +	; 	i 	۱ ۱
162433	OWNER BUILDER	SHED - UNCERTIFIED	 	Lot 6165 38	FREEBOROUGH ROAD	YOUNGS SIDING
162446	BUILDING APPROVAL	STOREROOM ADDITION CHANGES	408	Lot 1982	EDEN ROAD	YOUNGS SIDING
l	Ì	TO WINDOWS VERANDAH RAMP &	1	l	1	l
т 	CERTIFICATE	ASSSOCIATED DECKING	L		,] u u u u u u u	,

CITY OF ALBANY

REPORT

То	1	His Worship the Mayor and Councillors
From	:	Information Officer – Development Services
Subject	:	Development Application Approvals – May 2018
Date	1	6 June 2018

- 1. The attached report shows Development Application Approvals issued under delegation by a planning officer for the month of May 2018.
- 2. Within this period 58 Development applications were determined, of these;
 - 57 Development applications were approved under delegated authority; and
 - 1 Development application was cancelled.

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Vicki Martin Information Officer – Development Services

PLANNING SCHEME CONSENTS ISSUED UNDER DELEGATED AUTHORITY

Applications determined for May 2018

Application Application		Street Address	Locality Description of Application		Decision	Decision	Assessing Officer
Number	Date					Date	
P2180190	18/04/2018	Stirling Terrace	Albany	Shop - Internal shop fit out and	Delegate	31/05/2018	Craig McMurtrie
				signage (Barber Shop)	Approved		
P2180128	13/03/2018	Houghton Boulevard	Bayonet Head	Single House & Retaining Walls	Delegate	28/05/2018	Jessica Anderson
				(Design Codes Assessment)	Approved		
P2180235	10/05/2018	Houghton Boulevard	Bayonet Head	Single House	Delegate	29/05/2018	Jessica Anderson
					Approved		
P2180184	16/04/2018	Lockyer Avenue	Centennial	Change of Use - Fast Food Outlet	Delegate	17/05/2018	Craig McMurtrie
			Park		Approved		
P2180208	27/04/2018	Sanford Road	Centennial	Storage (Garage & Awning)	Delegate	29/05/2018	Alex Bott
			Park		Approved		
P2180259	18/05/2018	Barker Road	Centennial	Grouped Dwellings x 20 -	Delegate	28/05/2018	Craig McMurtrie
			Park	Amendment to P2130535	Approved		
P2180260	24/05/2018	Sanford Road	Centennial	Warehouse (Fruit & Veg)	Delegate	31/05/2018	Alex Bott
			Park		Approved		
P2180061	7/02/2018	Lower King Road	Collingwood	Home Business (Waxi Wraps)	Delegate	31/05/2018	Jessica Anderson
			Heights		Approved		
P2180221	3/05/2018	Ulster Road	Collingwood	Rural Pursuit (Outbuilding)	Delegate	22/05/2018	Jessica Anderson
			Heights		Approved		
P2180251	16/05/2018	Down Road	Drome	Single House & Water Tank	Delegate	31/05/2018	Jessica Anderson
					Approved		
P2180156	27/03/2018	Swan Point Road	Kalgan	Ancillary Accommodation	Delegate	1/05/2018	Craig McMurtrie
					Approved		
P2180176	12/04/2018	Henty Road	Kalgan	Single House (Carport)	Delegate	1/05/2018	Craig McMurtrie
					Approved		
P2180192	19/04/2018	Poikeclerup Road	Kalgan	Development - Workers	Delegate	8/05/2018	Alex Bott
				Accommodation	Approved		
P2180211	1/05/2018	Churchlane Road	Kalgan	Single House and Rainwater Tank	Delegate	10/05/2018	Jessica Anderson
					Approved		
P2180232	8/05/2018	Hart View	King River	Development (Outbuilding)	Delegate	17/05/2018	Craig McMurtrie
					Approved		
P2180189	18/04/2018	Lower Denmark Road	Kronkup	Restaurant and Grouped Dwelling	Delegate	21/05/2018	Alex Bott
					Approved		
P2180223	4/05/2018	Bandicoot Drive	Lange	Single House	Delegate	29/05/2018	Jessica Anderson
					Approved		

P2180199 24/04/2018 Frenchman Bay Road Little Grove Single House (Outbuilding) Delegate Approved 15/05/2018 Alex Bott P2180246 15/05/2018 Paulas Way Little Grove Single House (Carport) Delegate Approved 29/05/2018 Jessica Anderson Approved P2180242 14/05/2018 Gifford Street Lockyer Single House Delegate Delegate 21/05/2018 Jessica Anderson Approved P2180242 14/05/2018 Drummond Street Lockyer Educational Establishment (Patio Extension) Delegate 21/05/2018 Alex Bott P2180124 12/04/2018 Le Grande Avenue McKail Single House (Outbuilding) Delegate 305/2018 Alex Bott P2180024 26/04/2018 Lancaster Road McKail Single House (Curbuilding) Delegate 10/05/2018 Jessica Anderson P2180234 11/05/2018 Sherwood Drive McKail Single House (Outbuilding) Delegate 10/05/2018 Jessica Anderson P2180239 11/05/2018 Perter Way McKail Single House (Outbuilding) Delegate	Application Number	Application Date	Street Address	Locality	Description of Application	Decision	Decision Date	Assessing Officer
P218024615/05/2018Paulas WayLittle GroveSingle House (Carport)Delegate Approved29/05/2018Jessica Anderson ApprovedP218020526/04/2018Gifford StreetLockyerSingle HouseDelegate Extension)21/05/2018Jessica Anderson ApprovedP218024214/05/2018Drummond StreetLockyerEducational Establishment (Patio Extension)Delegate Approved21/05/2018Alex Bott ApprovedP218020426/04/2018La caster RoadMcKailSingle House (Outbuilding) ApprovedDelegate Approved3/05/2018Alex Bott ApprovedP218020727/04/2018Sherwood DriveMcKailSingle House (Carport) ApprovedDelegate Approved1/05/2018Jessica Anderson ApprovedP21802244/05/2018Sherwood DriveMcKailSingle House (Outbuilding) ApprovedDelegate Approved1/05/2018Jessica Anderson ApprovedP218023911/05/2018Celestial DriveMcKailSingle House (Outbuilding) ApprovedDelegate Approved30/05/2018Jessica Anderson ApprovedP218021024/04/2018Wei CrescentMiddleton BeachSingle House (Additions) ApprovedDelegate Approved30/05/2018Taylor Gun ApprovedP21802131/05/2018Bonthorpe CourtMillbrookSingle HouseDelegate Approved1/05/2018Alex Bott ApprovedP21802131/05/2018Silverstar CourtMillbrookSingle House (Design Codes ApprovedDelegate Approved	P2180199	24/04/2018	Frenchman Bay Road	Little Grove	Single House (Outbuilding)	Delegate	15/05/2018	Alex Bott
P2180240 10/03/2016 Paties Way Little Glove Single House (Calpbri) Delegate 23/03/2016 Delesate P2180205 26/04/2018 Gifford Street Lockyer Single House Delegate 21/05/2018 Jessica Anderson P2180242 14/05/2018 Drummond Street Lockyer Educational Establishment (Patio Extension) Delegate 21/05/2018 Alex Bott P2180204 26/04/2018 Lancaster Road McKail Single House (Outbuilding) Delegate 21/05/2018 Alex Bott P2180207 27/04/2018 Lancaster Road McKail Single House (Outbuilding) Delegate 3/05/2018 Alex Bott P2180224 4/05/2018 Celestial Drive McKail Single House (Outbuilding) Delegate 1/05/2018 Taylor Gunn P2180239 11/05/2018 Celestial Drive McKail Single House (Outbuilding) Delegate 3/05/2018 Taylor Gunn P2180239 11/05/2018 Celestial Drive McKail Single House (Additions) Delegate 3/05/2018 Taylor Gun	D2190246	15/05/2019	Baulas Way	Little Crove	Single House (Corport)	Delegate	20/05/2019	locaigo Andorgon
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P110320ExtensionExtensionExtensionExtensionP218024214/05/2018Drummond StreetLockyerEducational Establishment (Patio ApprovedDelegate Approved2//05/2018Alex Bott ApprovedP218024012/04/2018Le Grande AvenueMcKailSingle House (Outbuilding) Delegate ApprovedDelegate Approved3/05/2018Alex Bott ApprovedP218020727/04/2018Lancaster RoadMcKailSingle House (Carport) Delegate ApprovedDelegate Approved1/05/2018Jessica Anderson ApprovedP21802244/05/2018Sherwood DriveMcKailSingle House (Outbuilding) Delegate ApprovedDelegate Approved1/05/2018Jessica Anderson ApprovedP218023811/05/2018Celestial DriveMcKailSingle House (Outbuilding) Delegate ApprovedDelegate Approved3/05/2018Taylor Gunn ApprovedP218023911/05/2018Penter Way Wylie CrescentMcKailSingle House (Additions) Delegate BeachDelegate Approved3/05/2018Taylor Gunn ApprovedP21802131//05/2018Bonthorpe CourtMildleton BeachSingle House (Patio & Water Tank)Delegate Approved15/05/2018Alex Bott ApprovedP21802131//05/2018Silverstar CourtMilibrookSingle House (Design Codes ApprovedDelegate Approved14/05/2018Craig McMutrite ApprovedP21802193/05/2018Friesian RiseMilparaSingle House (Design Codes Assessment)Delegate	P2180205	26/04/2018	Gifford Street	Lockver	Single House	Delegate	21/05/2018	lessica Anderson
P2180242 14/05/2018 Drummond Street Lockyer Educational Establishment (Patio Extension) Delegate Approved 22/05/2018 Alex Bott P2180180 12/04/2018 Le Grande Avenue McKail Single House (Outbuilding) Delegate 21/05/2018 Alex Bott P2180204 26/04/2018 Lancaster Road McKail Single House (Outbuilding) Delegate 3/05/2018 Alex Bott P2180207 27/04/2018 Sherwood Drive McKail Single House (Outbuilding) Delegate 1/05/2018 Jessica Anderson P2180224 4/05/2018 O'Keefe Parade McKail Single House (Outbuilding) Delegate 18/05/2018 Taylor Gunn P2180239 11/05/2018 Penter Way McKail Single House (Outbuilding) Delegate 9/05/2018 Taylor Gunn P2180217 11/04/2018 Penter Way McKail Single House (Additions) Delegate 9/05/2018 Taylor Gunn P2180210 24/04/2018 Bonthorpe Court Mildleton Single House (Patio & Water Tank) Delegate 15/05/2018 <t< td=""><td>12100200</td><td>20/04/2010</td><td></td><td>LOOKYCI</td><td></td><td>Approved</td><td>21/03/2010</td><td>00001007110010011</td></t<>	12100200	20/04/2010		LOOKYCI		Approved	21/03/2010	00001007110010011
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P2180180 12/04/2018 Le Grande Avenue McKail Single House (Outbuilding) Delegate Approved 21/05/2018 Alex Bott P2180204 26/04/2018 Lancaster Road McKail Single House (Outbuilding) Delegate 3/05/2018 Alex Bott P2180207 27/04/2018 Sherwood Drive McKail Single House (Carport) Delegate 1/05/2018 Jessica Anderson P2180224 4/05/2018 O'Keefe Parade McKail Single House (Outbuilding) Delegate 18/05/2018 Taylor Gunn P2180238 11/05/2018 Celestial Drive McKail Single House (Outbuilding) Delegate 28/05/2018 Jessica Anderson P2180239 11/05/2018 Penter Way McKail Single House Delegate 3/05/2018 Taylor Gunn P2180210 24/04/2018 Bonthorpe Court Mildleton Beach Single House (Patio & Water Tark) Delegate 1/05/2018 Alex Bott P2180233 9/05/2018 Friesian Rise Millbrook Single House (Patio & Water Tark) Delegate 1/05/2018	1 2100212	1 1/00/2010		Lookyon	Extension)	Approved	22,00,2010	7 10/ 201
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P21802244/05/2018O'Keefe ParadeMcKailSingle House (Outbuilding)Delegate Approved18/05/2018Taylor Gunn ApprovedP218023811/05/2018Celestial DriveMcKailSingle House (Outbuilding)Delegate Approved29/05/2018Jessica Anderson ApprovedP218023911/05/2018Penter WayMcKailSingle HouseDelegate Approved30/05/2018Taylor Gunn ApprovedP218016711/04/2018Wylie CrescentMiddleton BeachSingle House (Additions)Delegate Approved9/05/2018Taylor Gunn ApprovedP218020124/04/2018Bonthorpe CourtMillbrookSingle House (Patio & Water Tank) ApprovedDelegate Approved15/05/2018Craig McMurtrie ApprovedP21802131/05/2018Silverstar CourtMillbrookSingle House (Patio & Water Tank) ApprovedDelegate Approved14/05/2018Craig McMurtrie ApprovedP21802339/05/2018Friesian RiseMilparaSingle House (Patio)Delegate Approved14/05/2018Craig McMurtrie ApprovedP21802193/05/2018Middleton RoadMount ClarenceSingle House - Earthworks in excess of 600mm and Retaining WallDelegate Approved18/05/2018Craig McMurtrie ApprovedP218016811/04/2018Serpentine RoadMount MelvilleSingle HouseDelegate Approved18/05/2018Craig McMurtrie ApprovedP218016811/04/2018Serpentine RoadMount MelvilleSingle House (Retaining wall on Ap						Approved		
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boundary)	P2180188	17/04/2018	Jeffries Street	Mount Melville	Single House (Retaining wall on	Delegate	3/05/2018	Jessica Anderson
					boundary)	Approved	0,00,2010	

Application Number	Application Date	Street Address	Locality	Description of Application	Decision	Decision Date	Assessing Officer
P2180217	2/05/2018	Nisus View	Mount Melville	Holiday Accommodation	Delegate Approved	30/05/2018	Taylor Gunn
P2180231	8/05/2018	Camfield Street	Mount Melville	Grouped Dwelling (Retaining Wall)	Delegate Approved	17/05/2018	Jessica Anderson
P2180197	23/04/2018	Minor Road	Orana	Change of Use to Ancillary Accommodation and Garage	Delegate Approved	10/05/2018	Jessica Anderson
P2180185	16/04/2018	Roberts Road	Robinson	Storage (5 x Sea Containers)	Delegate Approved	17/05/2018	Alex Bott
P2180228	7/05/2018	Roberts Road	Robinson	Single House (Outbuilding and 3 x Rain Water Tanks)	Delegate Approved	15/05/2018	Alex Bott
P2180178	12/04/2018	Tunney Way	Spencer Park	Home Occupation (Baked Goods)	Delegate Approved	16/05/2018	Alex Bott
P2180200	24/04/2018	Collingwood Road	Spencer Park	Single House (Verandah Roof)	Delegate Approved	3/05/2018	Alex Bott
P2180210	30/04/2018	Hillman Street	Spencer Park	Single House (Carports x 2)	Delegate Approved	3/05/2018	Jessica Anderson
P2180163	6/04/2018	Whaling Station Road	Torndirrup	Development (Outbuilding)	Delegate Approved	14/05/2018	Jessica Anderson
P2180187	17/04/2018	Mercer Road	Walmsley	Development - Storage Addition	Delegate Approved	1/05/2018	Taylor Gunn
P2180236	10/05/2018	Chester Pass Road	Walmsley	Single House - Patio	Delegate Approved	14/05/2018	Jessica Anderson
P2180254	17/05/2018	Lower King Road	Walmsley	Cemetery - (Reception Centre & Office)	Delegate Approved	31/05/2018	Alex Bott
P2170624	20/11/2017	Warrenup Place	Warrenup	Ancillary Accommodation	Cancelled	29/05/2018	Craig McMurtrie
P2180140	19/03/2018	Warrenup Place	Warrenup	Single House	Delegate Approved	2/05/2018	Craig McMurtrie
P2180248	15/05/2018	Boonah Court	Warrenup	Single House & Outbuilding	Delegate Approved	22/05/2018	Alex Bott
P2180216	2/05/2018	Steedman Street	Wellstead	Change of Use - Single House to Outbuilding	Delegate Approved	8/05/2018	Taylor Gunn
P2180206	27/04/2018	Greenwood Drive	Willyung	Single House (Outbuilding)	Delegate Approved	1/05/2018	Jessica Anderson
P2180234	9/05/2018	Vokes Court	Willyung	Single House	Delegate Approved	15/05/2018	Alex Bott
P2180160	3/04/2018	Ulster Road	Yakamia	Development - Front Fencing	Delegate Approved	4/05/2018	Craig McMurtrie

Application	Application	Street Address	Locality	Description of Application	Decision	Decision	Assessing Officer
Number	Date					Date	
P2180171	11/04/2018	Galle Street	Yakamia	Single House (Outbuilding)	Delegate	14/05/2018	Taylor Gunn
					Approved		
P2180255	18/05/2018	Parish Street	Yakamia	Single House	Delegate	22/05/2018	Alex Bott
					Approved		
P2180177	12/04/2018	Eden Road	Youngs	Approval Of Existing Development	Delegate	15/05/2018	Craig McMurtrie
			Siding	(Single House Additions)	Approved		