Please note: These minutes are yet to be confirmed as a true record of proceedings

# **CITY OF BUSSELTON**

# MINUTES FOR THE COUNCIL MEETING HELD ON 25 MARCH 2020

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#### MINUTES

MINUTES OF A MEETING OF THE BUSSELTON CITY COUNCIL HELD IN THE COUNCIL CHAMBERS, ADMINISTRATION BUILDING, SOUTHERN DRIVE, BUSSELTON, ON 25 MARCH 2020 AT 5.30PM.

1. <u>DECLARATION OF OPENING ACKNOWLEDGEMENT OF COUNTRY / ACKNOWLEDGEMENT OF VISITORS / DISCLAIMER / NOTICE OF RECORDING OF PROCEEDINGS</u>

The Presiding Member opened the meeting at 5.30pm.

#### 2. ATTENDANCE

Presiding Membe	<u>r:</u>	Members:	
Cr Grant Henley	Mayor	Cr Kelly Hick Cr Sue Riccelli Cr Ross Paine Cr Kate Cox Cr Paul Carter Cr Phill Cronin Cr Jo Barrett-Lenn Cr Lyndon Miles	Deputy Mayor

#### Officers:

Mr Mike Archer, Chief Executive Officer
Mr Oliver Darby, Director, Engineering and Works Services
Mr Paul Needham, Director, Planning and Development Services
Mr Tony Nottle, Director, Finance and Corporate Services (remote attendance)
Ms Sarah Pierson, Manager, Governance and Corporate Services
Mrs Emma Heys, Governance Coordinator
Mr Tim Allingham, Information Technology Coordinator

### **Apologies:**

Nil

Approved Leave of Absence:

Nil

Media:

"Busselton-Dunsborough Times"
"Busselton-Dunsborough Mail"

Public:

0

#### 3. PRAYER

Nil

#### 4. APPLICATION FOR LEAVE OF ABSENCE

Nil

#### 5. DISCLOSURE OF INTERESTS

#### 6. ANNOUNCEMENTS WITHOUT DISCUSSION

#### **Announcements by the Presiding Member**

This is the first time the City of Busselton has attempted to live stream a Council meeting from the Council Chambers. This will probably be the last face-to-face Council meeting for some time. We have cancelled the first meeting in April and the second meeting in April will follow government guidelines and in all likelihood be held with remote attendance.

#### 7. **QUESTION TIME FOR PUBLIC**

#### **Response to Previous Questions Taken on Notice**

Nil

#### **Question Time for Public**

#### 7.1 Dr Martin Staines

The following questions were submitted by email prior to the meeting and read out by the Mayor at the meeting:

### Question

Regarding Item 13.1:

- (a) Will the City of Busselton now independently verify the full water requirements of the operation for proper dust suppression?
- (b) As the proponent states that the operation involves washing up to 5000 tonnes of sand, will the City of Busselton insist on an additional water budget for this purpose?
- (c) Will the City of Busselton ask the proponent to demonstrate that a lawful water source has been secured to meet the FULL water demands of the operation?
- (d) As washing is to occur, will the City of Busselton mandate that the proponent obtains authorisation under Part V of the Environmental Protection Act 1986 (EP Act) as a condition of approval?

#### Response

(Mr Paul Needham, Director Planning and Development Services)

We have received some further written advice from DWER and we will forward a copy of that to Dr Staines, and respond to his questions as follows:

- (a) There is a recommended condition of approval that further information on water supply be provided before operations can commence that includes identifying the water required and the source of that water for dust suppression.
- (b) There is a recommended condition of approval that, should the Council determine to approve the development in accordance with those conditions, requires that additional information be provided before the development can commence. We also have confirmation from DWER that they would be happy for us to refer the additional information to them for further advice.
- (c) As part of the process I have just spoken about, there will be a validation in terms of accessing water on site in terms of ground and surface water sources. It is worth noting that in some cases water is and can be trucked on to the site for dust suppression and other purposes, and that may be what the proponent chooses to do.

It is proposed, though it is not certain, that the proponent will do that on the basis of the information they have provided to us. Will we mandate that they obtain authorisation / licencing under the Environmental Protection Act as a condition of development approval? No, we will not be doing that, we can't impose a requirement under a development approval to obtain approval under another Act. If approval is required under that other Act, they have to get approval regardless of whether there is a condition of development approval or not. There are thresholds for licensing for processing of sand, processing of gravel and some of the other activities they may be undertaken on the site and our understanding is that the scale at which those activities are proposed to or potentially may occur are below the thresholds of licensing under the Act, but if that proves not to be the case, they will require licensing under the Environmental Protection Act.

#### 8. CONFIRMATION AND RECEIPT OF MINUTES

#### **Previous Council Meetings**

8.1 Minutes of the Council Meeting held 11 March 2020

#### **COUNCIL DECISION**

C2003/095 Moved Deputy Mayor K Hick, seconded Councillor J Barrett-Lennard

That the Minutes of the Council Meeting held 11 March 2020 be confirmed as a true and correct record.

**CARRIED 9/0** 

#### **Committee Meetings**

8.2 <u>Minutes of the Finance Committee Meeting held 11 March 2020</u>

#### **COUNCIL DECISION**

C2003/096 Moved Councillor P Carter, seconded Councillor J Barrett-Lennard

That the Minutes of the Finance Committee Meeting held 11 March 2020 be noted.

**CARRIED 9/0** 

# 9. RECEIVING OF PETITIONS, PRESENTATIONS AND DEPUTATIONS

#### **Petitions**

Nil

#### **Presentations**

Ms Diane Smith-Gander AO presented in relation to Item 13.1 'Application for Development Approval (DA18/0674) – Proposed Extractive (Sand and Gravel) - Lot 101 (285) Gibb Road – Second Report Following Deferral of Determination By Council'.

Ms Diane Smith-Gander was opposed to the recommendation.

Mr Stuart Love presented in relation to Item 13.1 'Application for Development Approval (DA18/0674) – Proposed Extractive (Sand and Gravel) – Lot 101 (285) Gibb Road – Second Report Following Deferral of Determination By Council'.

Mr Stuart Love was opposed to the recommendation.

#### **Deputations**

Nil

# 10. QUESTIONS BY MEMBERS OF WHICH DUE NOTICE HAS BEEN GIVEN (WITHOUT DISCUSSION)

Nil

#### 11. ITEMS BROUGHT FORWARD

#### **Adoption by Exception Resolution**

At this juncture, the Mayor advised the meeting that, with the exception of the items identified to be withdrawn for discussion, the remaining reports, including the Committee and Officer Recommendations, will be adopted en bloc, i.e. all together.

#### **COUNCIL DECISION**

C2003/097 Moved Councillor P Carter, seconded Deputy Mayor K Hick

That the Committee and Officer Recommendations in relation to the following agenda items be carried en bloc:

- 12.1 Finance Committee 11/03/2020 LIST OF PAYMENTS MADE JANUARY 2020
- 12.2 Finance Committee 11/03/2020 FINANCIAL ACTIVITY STATEMENTS YEAR TO DATE AS AT 31 JANUARY 2020
- 13.2 NAMING OF RESERVE 43008, DUNSBOROUGH, TO QUEDJINMIA RESERVE
- 17.1 COUNCILLORS' INFORMATION BULLETIN

**CARRIED 9/0** 

**EN BLOC** 

#### 12. REPORTS OF COMMITTEE

#### 12.1 Finance Committee - 11/03/2020 - LIST OF PAYMENTS MADE - JANUARY 2020

**STRATEGIC GOAL** 6. LEADERSHIP Visionary, collaborative, accountable

**STRATEGIC OBJECTIVE** 6.1 Governance systems, process and practices are responsible,

ethical and transparent.

**SUBJECT INDEX** Financial Operations **BUSINESS UNIT** Financial Services

**REPORTING OFFICER** Manager Financial Services - Paul Sheridan

**AUTHORISING OFFICER** Director Finance and Corporate Services - Tony Nottle

**NATURE OF DECISION** Noting: the item does not require a decision of Council and is simply

for information purposes and noting

**VOTING REQUIREMENT** Simple Majority

ATTACHMENTS Attachment A List of Payments January 2020 1 2020

This item was considered by the Finance Committee at its meeting on 11 March 2020, the recommendations from which have been included in this report.

#### COUNCIL DECISION AND COMMITTEE RECOMMENDATION AND OFFICER RECOMMENDATION

C2003/098 Moved Councillor P Carter, seconded Deputy Mayor K Hick

That the Council notes payment of voucher numbers M117731 – M117858, EF069187 – EF069710, T007497 – T007500, DD004005 – DD004032 (including DD4002 not included in December 2019) together totalling \$6,132,504.27.

**CARRIED 9/0** 

**EN BLOC** 

#### **EXECUTIVE SUMMARY**

This report provides details of payments made from the City's bank accounts for the month of January 2020, for noting by the Council and recording in the Council Minutes.

#### **BACKGROUND**

The Local Government (Financial Management) Regulations 1996 (the Regulations) requires that when the Council has delegated authority to the Chief Executive Officer to make payments from the City's bank accounts, that a list of payments made is prepared each month for presentation to, and noting by, the Council.

#### **OFFICER COMMENT**

In accordance with regular custom, the list of payments made for the month of January 2020 is presented for information.

#### **Statutory Environment**

Section 6.10 of the *Local Government Act 1995* and more specifically Regulation 13 of the Regulations refer to the requirement for a listing of payments made each month to be presented to the Council.

#### **Relevant Plans and Policies**

There are no relevant plans or policies to consider in relation to this matter.

#### **Financial Implications**

There are no financial implications associated with the officer recommendation.

# **Stakeholder Consultation**

No external stakeholder consultation was required or undertaken in relation to this matter.

#### **Risk Assessment**

An assessment of the potential implications of implementing the officer recommendation has been undertaken using the City's risk management framework, with risks assessed taking into account any controls already in place. No risks of a medium or greater level have been identified.

# **Options**

Not applicable.

#### **CONCLUSION**

The list of payments made for the month of January 2020 is presented for information.

#### TIMELINE FOR IMPLEMENTATION OF OFFICER RECOMMENDATION

Not applicable.





# LISTING OF PAYMENTS MADE UNDER DELEGATED AUTHORITY FOR THE MONTH OF JANUARY 2020

MUNICIPAL ACCOUNT CHE	EQUE # 117731 - 117858	\$ 342,594.62
ELECTRONIC TRANSFER PAYMENTS EFO	069187 - EF069710	\$ 4,057,205.12
TRUST ACCOUNT TRU	UST ACCOUNT 7497 - 7500	\$ 32,099.13
INTERNAL PAYMENT VOUCHERS DD4	4005 - DD4032 (Incl DD4002 Not included in December 2019)	\$ 1,700,605.40
		\$ 6,132,504.27

		CHEQUE PAYMENT	S JANUARY 2020		
DATE	REF#	NAME	DESCRIPTION	A	MOUNT
30/01/2020	117828	A GUARD & D O'CONNOR	CROSSOVER SUBSIDY PAYMENT	\$	787.20
30/01/2020	117834	A MUTTON	CROSSOVER SUBSIDY PAYMENT	\$	337.40
30/01/2020	117826	A REANY	CROSSOVER SUBSIDY PAYMENT	s	167.90
17/01/2020	117766	ADOLFO BONGHANOY	REFUND OF HALL & KEY DEPOSITS	\$	200.00
17/01/2020	117767	ADVANCED PERSONNEL MANAGEMENT	REFUND OF HALL & KEY DEPOSITS	Ś	200.00
9/01/2020	117738	ALLEN EYRES	REFUND OF RATE OVERPAYMENT	Ś	750.00
23/01/2020	117730	ANDREW AND MARG LINDSAY	BIO-DIVERSITY RATE REBATE	s	597.38
				ŝ	
9/01/2020	117753	ANNE SHIPWAY	REFUND CANCELLED HOLIDAY HOME APPLICATION BIO-DIVERSITY RATE REBATE		150.00
23/01/2020	117797	ANTHONY JOHN GRAHAM FISHER		\$	935.55
30/01/2020	117842	AR PARIS	REFUND OF RATE OVERPAYMENT	\$	100.00
9/01/2020	117748	ARTGEO PETTY CASH	PETTY CASH REIMBURSEMENT	\$	97.00
21/01/2020	117773	ARTGEO PETTY CASH	PETTY CASH REIMBURSEMENT	\$	99.85
22/01/2020	117788	AUSTRALIAN COMMUNICATIONS & MEDIA AUTHORITY	COMMUNICATION SERVICES	\$	45.00
31/01/2020	117857	AUSTRALIAN INSTITUTE OF BUILDING SURVEYORS	TRAINING SERVICES	\$	300.00
8/01/2020	117743	B & B PENFOLD	JETTY TOURIST PARK BOND	\$	62.00
22/01/2020	117774	B & J FRANCIS	REFUND OF RATE OVERPAYMENT	\$	2,190.37
30/01/2020	117827	B ERDOSI & G GAL	CROSSOVER SUBSIDY PAYMENT	\$	167.90
17/01/2020	117765	BELINDA KUHRER	REFUND OF ANIMAL TRAP BOND	Ś	100.00
23/01/2020	117808	BETTY PEAKER	BIO-DIVERSITY RATE REBATE	\$	1,500.00
30/01/2020	117850	BM WALTER	REFUND OF RATE OVERPAYMENT	Ś	750.00
9/01/2020	117744	BP AUSTRALIA PTY LTD	REFUND OVERPAYMENT OF RENT	Š	1,256.79
	117768	BUSSELTON CHORAL SOCIETY	DONATION	\$	100.00
13/01/2020	117787				
22/01/2020		BUSSELTON HOSPICE INC	COMMUNITY BID	\$	5,500.00
30/01/2020	117853	BUSSELTON PUBLIC LIBRARY - PETTY CASH	PETTY CASH REIMBURSEMENT	\$	185.15
24/01/2020	117816	BUSSELTON WATER CORPORATION	WATER SERVICES	\$	178.40
30/01/2020	117825	CIDDON	CROSSOVER SUBSIDY PAYMENT	\$	249.80
16/01/2020	117761	CALLOWS CORNER NEWS	STAFF SOCIAL CLUB - LOTTO	\$	290.00
30/01/2020	117819	CALLOWS CORNER NEWS	STAFF SOCIAL CLUB - LOTTO	\$	290.00
22/01/2020	117784	CALLOWS CORNER NEWSAGENCY	STAFF SOCIAL CLUB - LOTTO	\$	415.10
17/01/2020	117763	CAROL THOMPSON	PEOPLE'S CHOICE AWARD	\$	500.00
23/01/2020	117793	CHRISTINE BYATT	BIO-DIVERSITY RATE REBATE	\$	416.08
9/01/2020	117745	CITY OF BUSSELTON	REFUND OVERPAYMENT	\$	2,411.06
16/01/2020	117760	CITY OF BUSSELTON	PAYROLL DEDUCTIONS REALLOCATION	Ś	6,082.03
24/01/2020	117815	CITY OF BUSSELTON	BATTLE OF THE BANDS PRIZE MONEY	Ś	1,000.00
30/01/2020	117818	CITY OF BUSSELTON	PAYROLL DEDUCTIONS REALLOCATION	s	5,904.63
	117852	CITY OF BUSSELTON	VARIOUS BOND AND RATES REFUNDS	s	2,668.92
30/01/2020	117746	CITY OF BUSSELTON - PETTY CASH	PETTY CASH REIMBURSEMENT	_	423.10
9/01/2020				\$	
23/01/2020	117801	COLIN AND MARINA HOLDEN-TROITSKY	BIO-DIVERSITY RATE REBATE	\$	332.14
22/01/2020	117782	CWA BUSSELTON	EVENT CATERING	\$	650.00
30/01/2020	117829	D & A FANCOTE	CROSSOVER SUBSIDY PAYMENT	\$	289.90
30/01/2020	117844	D & D JONES	REFUND OF RATE OVERPAYMENT	\$	750.00
9/01/2020	117752	DAPHNE MAYNARD	REFUND OF RATE OVERPAYMENT	\$	1,250.64
23/01/2020	117799	DAVID AND ELAINE GREENHILL	BIO-DIVERSITY RATE REBATE	\$	741.06
2/01/2020	117758	DAVID ELLIS	REFUND DOG REGISTRATION	\$	60.00
30/01/2020	117837	DEPARTMENT OF TRANSPORT	PLANT & VEHICLE REGISTRATION	\$	328.00
31/01/2020	117858	DEPT OF PRIMARY INDUSTRIES & REGIONAL DEVELOPMENT	AGRICULTURAL SERVICES	\$	76.50
9/01/2020	117741	DESMOND CAMPBELL	REFUND OF RATE OVERPAYMENT	\$	126.33
30/01/2020	117835	DIABETES WA	REFUND CANCELLED BOOKING FEE	\$	51.00
9/01/2020	117739	DIANE BRICE	REFUND OF RATE OVERPAYMENT	Ś	100.00
9/01/2020	117751	DINA LEWIS	REFUND OF RATE OVERPAYMENT	\$	663.55
9/01/2020	117736	DONALD MUNDAY	REFUND OF RATE OVERPAYMENT	Ś	40.30
9/01/2020	117749	DUNSBOROUGH PUBLIC LIBRARY - PETTY CASH	PETTY CASH REIMBURSEMENT	\$	85.80
17/01/2020	117762	DUNSBOROUGH PROGRESS ASSOCIATION	DONATION	\$	1,000.00
30/01/2020	117847	ED WILLIAMSON	REFUND OF RATE OVERPAYMENT	\$	750.00
30/01/2020	117821	Elisha Caulfield	REFUND OF ANIMAL TRAP BOND	\$	100.00
22/01/2020	117779	ELISHA SALTARINI	REFUND DOG REGISTRATION	\$	60.00
23/01/2020	117809	EMMA CLARE PINNELL	BIO-DIVERSITY RATE REBATE	\$	959.06
23/01/2020	117805	EVAN LITIS	BIO-DIVERSITY RATE REBATE	\$	752.67
22/01/2020	117790	FRED ROSE EXCAVATOR HIRE	EARTHMOVING - WASTE FACILITY & ROADWORKS	s	10,708.50
21/01/2020	117772	GEOGRAPHE LEISURE CENTRE - PETTY CASH	PETTY CASH REIMBURSEMENT	Ś	241.25
30/01/2020	117845	GN COX	REFUND OF RATE OVERPAYMENT	s	100.00
22/01/2020	117780	HOOLEE DOOLEEZ VARIETY & VALUE	VACATION CARE SUPPLIES	s	120.00
	11//00	I TOURSE DOUGLE VANIETT OF TAKEN	The state of the second	1 4	120.00

DATE	REF#	NAME	DESCRIPTION		AMOUNT
30/01/2020	117848	NAME HW ROSBENDER	REFUND OF RATE OVERPAYMENT	s	750.00
30/01/2020	117838	J & C GROWDEN	REFUND OF RATE OVERPAYMENT	Ś	750.00
30/01/2020	117836	JAYDEN FRASER	DONATION	Ś	500.00
23/01/2020	117795	JESSICA CULLEN	BIO-DIVERSITY RATE REBATE	Ś	1,231.09
22/01/2020	117777	JOSHUA HILL	REFUND DOG REGISTRATION	\$	150.00
23/01/2020	117798	JULIE AND DUNCAN GARDINER	BIO-DIVERSITY RATE REBATE	\$	890.56
23/01/2020	117800	KERRY AND RIC HARVEY	BIO-DIVERSITY RATE REBATE	\$	250.00
30/01/2020	117851	KR CHAYTOR	REFUND OF RATE OVERPAYMENT	\$	375.00
30/01/2020	117822	L YEARBURY & S ALLEN	CROSSOVER SUBSIDY PAYMENT	\$	148.10
30/01/2020	117846	LJ RYAN	REFUND OF RATE OVERPAYMENT	\$	100.00
30/01/2020	117840	LJ WILSON	REFUND OF RATE OVERPAYMENT	\$	750.00
30/01/2020	117824	M & D GREEN	CROSSOVER SUBSIDY PAYMENT	\$	237.90
30/01/2020	117841	M & G KLEEMAN	REFUND OF RATE OVERPAYMENT	\$	750.00
30/01/2020	117832	M DEAN	CROSSOVER SUBSIDY PAYMENT	\$	269.60
30/01/2020	117833	M ROBERTS & J WILLIAMSON	CROSSOVER SUBSIDY PAYMENT	\$	267.80
30/01/2020	117831	M WHITE	CROSSOVER SUBSIDY PAYMENT	S	289.90
23/01/2020	117794	MARY CRAIGIE	BIO-DIVERSITY RATE REBATE	\$	2,029.37
23/01/2020 2/01/2020	117807 117757	MATTHEW NEAL MICHELL THOMPSON	BIO-DIVERSITY RATE REBATE REFUND DOG REGISTRATION	\$	475.63
31/01/2020	117757	OFFICE OF THE CEO - PETTY CASH	PETTY CASH REIMBURSEMENT	\$	51.67 487.30
22/01/2020	117776	P & C BLACHFORD	REFUND NEIGHBOURHOOD REFERRAL FEE	\$	124.00
9/01/2020	117776	PATRICIA LEWIN	REFUND CANCELLED TRADERS PERMIT APPLICATION	\$	154.00
23/01/2020	117792	PAUL BUCKINGHAM	BIO-DIVERSITY RATE REBATE	S	944.37
3/01/2020	117734	PAYMENT CANCELLED	PAYMENT CANCELLED	Ś	
22/01/2020	117775	PAYMENT CANCELLED	PAYMENT CANCELLED	Ś	-
23/01/2020	117783	PAYMENT CANCELLED	PAYMENT CANCELLED	\$	
23/01/2020	117803	PETER JENNINGS	BIO-DIVERSITY RATE REBATE	\$	1,468.42
23/01/2020	117811	PETER AND JENNY STARK	BIO-DIVERSITY RATE REBATE	\$	973.54
22/01/2020	117789	PETER HUNT - ARCHITECT	ARCHITECTURAL SERVICES	\$	5,500.00
24/01/2020	117817	PETER KIELY	VACATION CARE CONSUMABLES REIMBURSED	\$	20.50
9/01/2020	117740	PHILLIP COSTELLO	REFUND OF RATE OVERPAYMENT	\$	750.00
9/01/2020	117750	PIPPA MINTER	REFUND OF ANIMAL TRAP BOND	\$	100.00
30/01/2020	117843	R & L O'DONOGHUE	REFUND OF RATE OVERPAYMENT	\$	687.50
9/01/2020	117754	RG & R POOLE	REFUND CANCELLED BUILDING APPLICATION	\$	105.00
30/01/2020	117830	RJ WHITE	CROSSOVER SUBSIDY PAYMENT	\$	411.90
18/12/2019	117778	S KEEBLE	REFUND DOG REGISTRATION	\$	150.00
8/01/2020	117735 117785	SHELBY STEPHENS SHIRE OF CAPEL	GLC MEMBERSHIP REFUNDS  LOCAL GOV'T SERVICES	\$	1,382.00
22/01/2020 9/01/2020	117755	SM & JG KEALL	REFUND CANCELLED DEVELOPMENT APPLICATION	\$	5,548.69 147.00
23/01/2020	117733	SUE SEAMAN	BIO-DIVERSITY RATE REBATE	Ś	550.85
9/01/2020	117742	SUSAN TUCK	REFUND OF RATE OVERPAYMENT	s	100.00
3/01/2020	117731	SYNERGY	ELECTRICITY SUPPLIES	\$	6,512.01
10/01/2020	117759	SYNERGY	ELECTRICITY SUPPLIES	\$	88,704.38
17/01/2020	117769	SYNERGY	ELECTRICITY SUPPLIES	ŝ	2,728.18
24/01/2020	117812	SYNERGY	ELECTRICITY SUPPLIES	\$	61,449.91
31/01/2020	117855	SYNERGY	ELECTRICITY SUPPLIES	\$	5,753.60
30/01/2020	117823	T MCFARLANE	CROSSOVER SUBSIDY PAYMENT	\$	161.10
21/01/2020	117771	TAGBOIN PTY LTD	REFUND PAYMENTS - SUNDRY	\$	1,077.28
3/01/2020	117732	TELSTRA CORPORATION	COMMUNICATION SERVICES	\$	20,750.40
17/01/2020	117770	TELSTRA CORPORATION	COMMUNICATION SERVICES	\$	78.99
31/01/2020	117856	TELSTRA CORPORATION	COMMUNICATION SERVICES	\$	9,343.13
17/01/2020	117764	TENNIS SENIORS WA	REFUND OF HALL & KEY DEPOSITS	S	1,000.00
30/01/2020	117820	THOMAS MAZEY	ART SALES	\$	182.00
23/01/2020	117796	TRAVIS & JAIMIE DRYSDALE	BIO-DIVERSITY RATE REBATE	\$	351.67
23/01/2020	117802 117813	VALERIE HOPKINS VOID PAYMENT	BIO-DIVERSITY RATE REBATE VOID PAYMENT	\$	250.00
24/01/2020 24/01/2020	117813	VOID PAYMENT	VOID PAYMENT	\$	
30/01/2020	117814	W DAVIS & J PALMER	REFUND OF RATE OVERPAYMENT	\$	799.96
30/01/2020	117849	WA CRIDLAND	REFUND OF RATE OVERPAYMENT	\$	432.63
22/01/2020	117781	WA STRATA MANAGEMENT	STRATA LEVY FEES & WATER CONSUMPTION	\$	975.69
3/01/2020	117733	WATER CORPORATION	WATER SERVICES	\$	23,224.82
9/01/2020	117747	WATER CORPORATION	WATER SERVICES	Ś	507.38
22/01/2020	117786	WATER CORPORATION	WATER SERVICES	Ś	3,775.59
23/01/2020	117806	WERNER MUELLER	BIO-DIVERSITY RATE REBATE	\$	673.81
9/01/2020	117737	WILLIAM CRIER	REFUND OF RATE OVERPAYMENT	\$	750.09
23/01/2020	117791	ZACCARIA CONCERTS AND TOURING PTY LTD	REFUND GROUND HIRE BOND	\$	25,495.00
				\$	342,594.62

	EFT PAYMENTS JANUARY 2020					
DATE	REF#	NAME	DESCRIPTION	P	MOUNT	
22/01/2020	69359	12D SOLUTIONS PTY LTD	SOFTWARE MAINTENANCE	\$	2,598.75	
17/01/2020	69272	3E CONSULTING ENGINEERS PTY LTD	CONSULTANCY SERVICES	\$	10,120.00	
22/01/2020	69407	ABEC ENVIRONMENTAL CONSULTING PTY LTD	ENVIRONMENTAL CONSULTING	\$	825.00	
22/01/2020	69519	AC FORSTER & SON	PLUMBING SERVICES	\$	1,351.75	
10/01/2020	69238	ACCESS HOUSING	RATES REFUND	\$	3,275.59	
22/01/2020	69551	ACTIV FOUNDATION INC	MAINTENANCE SERVICES	\$	61,681.98	
17/01/2020	69276	ACTON SOUTH WEST TRUST ACCOUNT	RATE REFUND	\$	5,687.00	
22/01/2020	69336	ACURIX NETWORKS	INTERNET WIFI ACCESS	\$	3,330.80	
31/01/2020	69676	ACURIX NETWORKS	INTERNET WIFI ACCESS	\$	715.00	
22/01/2020	69460	ADAM DAVEY CONSULTING	TURF CONSULTANT	\$	1,023.55	
22/01/2020	69322	ADELPHI TAILORING COMPANY	PROTECTIVE CLOTHING SUPPLIER	\$	1,122.00	
22/01/2020	69462	ADVAM PTY LTD	AIRPORT CARPARK CREDIT CARD TRANSACTIONS	\$	324.19	
10/01/2020	69251	ADVANCED CLEANING SOUTHWEST	BBQ CLEANING	\$	3,110.50	
22/01/2020	69428	ADVANCED SEALING TRUST	MAINTENANCE SERVICES	\$	6,776.63	
17/01/2020	69290	AFGRI EQUIPMENT	MACHINERY EQUIPMENT PARTS AND SERVICE	\$	695.24	

DATE	REF#	NAME	DESCRIPTION	AMOUNT
8/01/2020	69208	AGP SECURITY	SANTA APPEARANCE	\$ 300.00
24/01/2020	69644	ALEXIA MORGAN	BJTP REFUND	\$ 212.00
17/01/2020	69283	ALINTA ENERGY	GAS USAGE	\$ 50.70
31/01/2020	69681	ALINTA ENERGY	GAS USAGE	\$ 135.15
10/01/2020	69229	ALL SEA CHARTERS	BOND REFUND	\$ 4,500.00
3/01/2020	69200	ALLAN MILLER	STAFF REIMBURSEMENT	\$ 92.40
22/01/2020	69616	ALLOY & STAINLESS PRODUCTS PTY LTD	PLANT PURCHASES / SERVICES / PARTS	\$ 1,253.27
22/01/2020	69440	ALPINE LAUNDRY PTY LTD	COMMERCIAL LAUNDRY	\$ 219.10
22/01/2020	69560	AMITY SIGNS	SIGNAGE SERVICES	\$ 63.25
10/01/2020	69215	ANDERS HAMMARSTROM	ART SALES	\$ 28.00
22/01/2020	69400	ANDREW PLEDGER	FRIDGE DE GASSING	\$ 1,082.40
10/01/2020	69220	ANGELA GRIFFIN	STAFF REIMBURSEMENT	\$ 61.38
22/01/2020	69485	ANNIE WINCHCOMBE	ARTWORK BANNER	\$ 250.00
22/01/2020	69429	ANSTEE EARTHMOVING CO	EARTHMOVING SERVICES	\$ 720.00
17/01/2020	69287	AQUATIC SERVICES WA PTY LTD	POOL SERVICE AND MAINTENANCE	\$ 6,490.00
22/01/2020	69425	AQUAVIVA CATERING	CATERING	\$ 750.00
22/01/2020	69326	AR PLUMBING & GAS SERVICE	PLUMBING SERVICES	\$ 2,115.30
8/01/2020	69204	ARBOR GUY	TREE MAINTENANCE SERVICES	\$ 6,010.40
22/01/2020	69328	ARBOR GUY	TREE MAINTENANCE SERVICES	\$ 9,254.85
22/01/2020	69413	ARM SECURITY SYSTEMS	SECURITY SYSTEMS SUPPLY AND MONITORING	\$ 1,415.70
22/01/2020	69415	ARTEZEN CAFE	NCC NETBALL FINAL PRIZES	\$ 265.00
8/01/2020	69207	AUSSIE BROADBAND PTY LTD	NBN BROADBAND	\$ 2,203.40
31/01/2020	69692	AUSSIE BROADBAND PTY LTD	NBN BROADBAND	\$ 2,203.40
22/01/2020	69543	AUSTRALIA POST	POSTAL SERVICE	\$ 9,810.14
22/01/2020	69314	AUSTRALIAN COASTAL COUNCILS ASSOCIATION INC	ACCOMMODATION SERVICES	\$ 495.00
16/01/2020	69265	AUSTRALIAN SERVICES UNION	UNION FEES	\$ 25.90
30/01/2020	69666	AUSTRALIAN SERVICES UNION	UNION FEES	\$ 25.90
16/01/2020	69264	AUSTRALIAN TAXATION OFFICE	PAYG TAXATION	\$ 239,606.00
30/01/2020	69665	AUSTRALIAN TAXATION OFFICE	PAYG TAXATION	\$ 246,118.00
22/01/2020	69592	AUTO ONE	PLANT PURCHASES / SERVICES / PARTS	\$ 7,136.11
22/01/2020	69406	AUTO TOUCH	VEHICLE DETAILING	\$ 250.00
22/01/2020	69495	AV TRUCK SERVICES PTY LTD	VEHICLE PARTS & MAINTENANCE	\$ 169.74
22/01/2020	69558	B & B STREET SWEEPING	STREET SWEEPING SERVICE	\$ 66,848.51
24/01/2020	69654	BARRY ALLEN ELECTRICAL SERVICES PTY LTD	ELECTRICAL SERVICES	\$ 1,604.90
22/01/2020	69392	BATTERY WORLD BUNBURY	BATTERIES	\$ 1,144.00
22/01/2020	69613	BAY CABINETS	FURNITURE PRODUCT SUPPLIER	\$ 77.00
10/01/2020	69252	BAY SIGNS	SIGNAGE SERVICES	\$ 135.00
3/01/2020	69191	BAYTHE LINEN AND LAUNDRY	SUPPLY OF CLEAN LINEN	\$ 1,616.19
22/01/2020	69426	BAYTHE LINEN AND LAUNDRY	SUPPLY OF CLEAN LINEN	\$ 37.09
22/01/2020	69365	BCP CIVIL & PLANT	EXCAVATOR & PLANT HIRE - VARIOUS WORKS	\$ 19,847.85
17/01/2020	69280	BCP CONTRACTORS PTY LTD	EARTHWORKS	
22/01/2020	69367	BCP LIQUID WASTE		
$\overline{}$	69366		LIQUID WASTE SERVICES SAND SUPPLIES	
22/01/2020		BCP MATERIALS PTY LTD		
22/01/2020	69634	BEACHLANDS LAWNMOWING SERVICE	LAWN MOWING SERVICE	\$ 260.00
22/01/2020	69625	BEACHSIDE BUILDING & MAINTENANCE	MAINTENANCE SERVICES	\$ 497.75
22/01/2020	69435	BELLROCK CLEANING SERVICES PTY LTD	CLEANING SERVICES	\$ 34,393.62
22/01/2020	69569	BENARA NURSERY	NURSERY SUPPLIES	\$ 242.00
22/01/2020	69318	BEYOND SAFETY	PROTECTIVE CLOTHING SUPPLIER	\$ 1,037.50
17/01/2020	69292	BIOMAX PTY LTD	WASTE WATER TREATMENT TANK	\$ 3,960.00
22/01/2020	69549	BLACKWOODS	FLEET CONSUMABLES & MAINTENANCE PARTS	\$ 6,227.92
22/01/2020	69513	BOC GASES AUSTRALIA LTD	GAS SERVICES	\$ 3,705.63
10/01/2020	69239	BREE OMODEI	ARTWORK	\$ 250.00
3/01/2020	69195	BRIAN EDWARD INGRAM	CARPENTRY SERVICES	\$ 2,525.00
17/01/2020	69293	BRIAN EDWARD INGRAM	CARPENTRY SERVICES	\$ 3,375.00
31/01/2020	69693	BRIAN EDWARD INGRAM	CARPENTRY SERVICES	\$ 3,375.00
22/01/2020	69335	BRIDGESTONE	TYRE SERVICES	\$ 271.70
20/01/2020	69313	BROADWATER BRICK PAVING	PAVING SERVICES	\$ 4,020.00
22/01/2020	69623	BROADWATER BRICK PAVING	PAVING SERVICES	\$ 1,800.00
24/01/2020	69653	BROADWATER BRICK PAVING	PAVING SERVICES	\$ 1,800.00
22/01/2020	69364	BROADWATER MEDICAL CENTRE	MEDICAL SERVICES	\$ 75.00
22/01/2020	69562	BSEWA	ELECTRICAL SERVICES	\$ 24,235.58
22/01/2020	69526	BUCHER MUNICIPAL PTY LTD	ENGINEERING - PLANT SPARES & SERVICING	\$ 727.07
22/01/2020	69370	BUILDING SUPPLIES SOUTH WEST	BUILDING PRODUCT SUPPLIER	\$ 58.45
22/01/2020	69444	BUNBURY HARVEY REGIONAL COUNCIL	WASTE DISPOSAL	\$ 763.70
22/01/2020	69584	BUNBURY HIAB AND TILTRAY (HOTMAC GOLD PTY LTD T/AS)	TILT TRAY SERVICES	\$ 863.50
22/01/2020	69565	BUNNINGS BUILDING SUPPLIES	HARDWARE SUPPLIES	\$ 15,650.89
22/01/2020	69601	BURKE AIR	AIR CONDITIONING SERVICES	\$ 3,577.92
10/01/2020	69228	BUSSELTON AGRICULTURAL SERVICES (WA) PTY LTD	RURAL SUPPLIES	\$ 4,454.00
22/01/2020	69405	BUSSELTON AGRICULTURAL SERVICES (WA) PTY LTD	RURAL SUPPLIES	\$ 730.00
22/01/2020	69331	BUSSELTON ALLSPORTS INC T/A BUSSELTON JETTY SWIM	JETTY SWIM 2020	\$ 22,660.00
22/01/2020	69387	BUSSELTON AUTO ELECTRICS	AUTO ELECTRICAL SERVICES	\$ 347.00
22/01/2020	69338	BUSSELTON BEARING SERVICES	BEARING SUPPLIES	\$ 2,528.28
22/01/2020	69568	BUSSELTON BITUMEN SERVICE	EARTHMOVING SERVICES	\$ 6,033.50
22/01/2020	69515	BUSSELTON BRASS INC.	ENTERTAINMENT SERVICES	\$ 100.00
22/01/2020	69556	BUSSELTON BUILDING PRODUCTS	BUILDING PRODUCT SUPPLIER	\$ 672.09
22/01/2020	69484	BUSSELTON DUNSBOROUGH MAIL	ADVERTISING SERVICES	\$ 2,975.00
22/01/2020	69583	BUSSELTON FOOTBALL & SPORTSMAN CLUB	ELECTRICITY REIMBURSEMENT	\$ 130.07
24/01/2020	69649	BUSSELTON FOOTBALL & SPORTSMAN CLUB	ELECTRICITY REIMBURSEMENT	\$ 155.26
22/01/2020	69320	BUSSELTON HYDRAULIC SERVICES INC	HYDRAULIC SERVICES	\$ 2,648.36
23/01/2020	69580	BUSSELTON HTDRAGUE SERVICES INC	PAYMENT CANCELLED	\$ 2,648.36
31/01/2020	69703	BUSSELTON JETTY INC.	YCAB AND VACATION CARE EXPENSES	\$ 793.80
			SECURITY SUPPLIES	
22/01/2020	69333 69411	BUSSELTON LOCKSMITH	VEHICLE PARTS	
22/01/2020		BUSSELTON MOTORCYCLES  BUSSELTON MOTORS (MITSURISHI/MAA 7DA)		
22/01/2020	69539	BUSSELTON MOTORS (MITSUBISHI/MAZDA)	VEHICLE PURCHASES / SERVICES / PARTS	\$ 6,808.65
22/01/2020	69554	BUSSELTON MULTI SERVICE	ENGRAVING SERVICES	\$ 143.00

MAINTENANCE SERVICES

STEEL GUIDE POST SUPPLIER

11,438.63

22/01/2020

69572

69481

DAVID MILDWATERS ELECTRICAL

DELNORTH PTY LTD

DATE	REF#	NAME	DESCRIPTION	1	AMOUNT
10/01/2020 22/01/2020	69241 69494	DELOS DELTA PTY LTD  DELOS DELTA PTY LTD	CONSULTANCY SERVICES CONSULTANCY SERVICES	\$	3,025.00 2,475.00
22/01/2020	69358	DEPARTMENT OF HUMAN SERVICES	CHARGES FOR CENTREPAY FACILITY	Ś	142.56
22/01/2020	69399	DEPARTMENT OF PLANNING, LANDS AND HERITAGE	LEASE & RENT AGREEMENTS	\$	1,100.00
16/01/2020	69267	DEPUTY CHILD SUPPORT REGISTRAR	SALARY DEDUCTIONS	\$	1,265.43
30/01/2020	69668	DEPUTY CHILD SUPPORT REGISTRAR	SALARY DEDUCTIONS	\$	1,265.43
22/01/2020	69576	DIAL BEFORE YOU DIG	CABLE LOCATION SERVICE	\$	1,504.25
22/01/2020	69498	DIESEL AND HYDRAULIC SERVICES SOUTH WEST	PLANT REPAIR AND MAINTENANCE	\$	340.45
22/01/2020	69615	DOOR HARDWARE SOLUTIONS	HARDWARE SUPPLIES	\$	890.89
24/01/2020	69658	DOOR HARDWARE SOLUTIONS	PAYMENT CANCELLED	\$	-
31/01/2020	69705 69434	DOOR HARDWARE SOLUTIONS  DORSOGNA LIMITED	HARDWARE SUPPLIES	\$	814.00 2,571.23
22/01/2020	69503	DOWN SOUTH PHYSIO & SPORT REHAB PTY LTD	ICE CREAM AND SMALL GOODS - GLC CAFÉ PHYSIOTHERAPY SERVICES	\$	88.00
17/01/2020	69300	DUNSBOROUGH VOLUNTEER BUSHFIRE BRIGADE	PETTY CASH REIMBURSEMENT	\$	60.00
22/01/2020	69586	DUNSBOROUGH & DISTRICTS PROGRESS ASSOC INC.	EVENT SPONSORSHIP	\$	16,500.00
22/01/2020	69541	DUNSBOROUGH BOBCAT SERVICE	EARTHMOVING - BOBCAT HIRE	\$	5,060.00
22/01/2020	69357	DUNSBOROUGH HARDWARE & HOME CENTRE	HARDWARE SERVICES	\$	158.00
22/01/2020	69593	DUXTON HOTEL	ACCOMMODATION	\$	2,082.40
22/01/2020	69437	DYNAMIC SECURITY MANAGEMENT	SECURITY	\$	825.00
22/01/2020	69416	EDUCA LIMITED	E-PORTFOLIOS FOR VACATION CARE	\$	1,108.80
22/01/2020	69587	EDUCATIONAL ART SUPPLIES	ART EQUIPMENT SUPPLIES	\$	95.76
22/01/2020	69453	EIS CONTROL PTY LTD	ELECTRICAL SERVICES	\$	954.80
10/01/2020	69231	ELAMOORE NATURAL SOAPS & COSMETICS PTY LTD	ART SALES	\$	59.15
31/01/2020	69684	ELAMOORE NATURAL SOAPS & COSMETICS PTY LTD	ART SALES	\$	13.65
22/01/2020	69315	ELLIOTS IRRIGATION PTY LTD	IRRIGATION SERVICES	\$	1,949.20
3/01/2020	69203	EMMA O'BRIEN	STAFF REIMBURSEMENT	\$	105.20
17/01/2020 22/01/2020	69274 69343	ENVIRONEX INTERNATIONAL PTY LTD ENVIRONEX INTERNATIONAL PTY LTD	POOL CHEMICALS FOR GLC POOL CHEMICALS FOR GLC	\$	2,847.90 1,387.58
24/01/2020	69637	ERTECH PTY LTD	AIRPORT DESIGN AND CONSTRUCTION	ŝ	2,475.00
22/01/2020	69376	EVERETT'S HOME AND YARD MAINTENANCE	MAINTENANCE SERVICES	\$	480.00
3/01/2020	69194	FE TECHNOLOGIES PTY LTD	RFID EQUIPMENT	Ś	45,531.20
22/01/2020	69520	FENNESSY'S	VEHICLE PURCHASES / SERVICES / PARTS	\$	36,729.77
10/01/2020	69248	FIONA RUMSA	ART SALES	\$	99.00
22/01/2020	69497	FITNESS SOLUTIONS WA	FITNESS EQUIPMENT SERVICE AND REPAIR	5	722.90
22/01/2020	69500	FLEUR FERGUSON	TEACHING SERVICES	\$	450.00
22/01/2020	69362	FORTUS	EARTHMOVING PARTS	\$	927.85
22/01/2020	69427	FRESH AS	DAIRY SUPPLIES GLC CAFÉ	\$	197.80
24/01/2020	69639	FRESH AS	MILK SUPPLIES GLC CAFÉ	\$	247.65
24/01/2020	69655	FRESH AS	DAIRY SUPPLIES GLC CAFÉ	\$	136.45
22/01/2020	69385	FRONTLINE FIRE & RESCUE EQUIPMENT	EMERGENCY RESPONSE EQUIPMENT	\$	65.62
22/01/2020	69605	GANNAWAYS CHARTER AND TOURS	BUS HIRE SERVICE	\$	405.00
22/01/2020 3/01/2020	69588 69199	GAS-IT PIPE CONTRACTING GB & VJ BRIERLEY	LOCATE UNDERGROUND GAS SERVICES REFUND ANIMAL TRAP BOND	\$	660.00 100.00
22/01/2020	69422	GEOBOX PTY LTD	VEHICLE CAMERAS	Ś	264.00
22/01/2020	69620	GEOGRAPHE BAY YACHT CLUB INC	GRANT FUNDING	\$	11,000.00
22/01/2020	69414	GEOGRAPHE ELECTRICAL & COMMUNICATIONS GEC	ELECTRICAL SERVICES	\$	819.50
22/01/2020	69339	GEOGRAPHE FORD	VEHICLE PURCHASES / SERVICES / PARTS	\$	605.00
22/01/2020	69355	GEOGRAPHE INDUSTRIAL SUPPLIES	INDUSTRIAL SUPPLIES	\$	22.27
17/01/2020	69301	GEOGRAPHE PETROLEUM	FUEL SERVICES	\$	33,854.14
22/01/2020	69608	GEOGRAPHE SAWS AND MOWERS	PLANT PURCHASES / SERVICES / PARTS	\$	3,577.40
10/01/2020	69250	GEOGRAPHE TIMBER & HARDWARE	HARDWARE SUPPLIES	\$	1,706.45
22/01/2020	69522	GEOGRAPHE TIMBER & HARDWARE	HARDWARE SUPPLIES	\$	3,329.54
22/01/2020	69398	GEOGRAPHE UNDERGROUND SERVICES	UNDERGROUND SERVICES	\$	5,852.00
3/01/2020	69193 69490	GEORGIA BIGNELL GEOSPREAD	KIOSK ART	\$	250.00
22/01/2020 22/01/2020	69595	GHD PTY LTD	GREEN WASTE MULCHING CONSULTANCY SERVICES	\$	24,381.50 9,021.10
8/01/2020	69211	GISSA	CONSULTANCY SERVICES  CONSULTANCY SERVICES	\$	3,548.60
31/01/2020	69699	GLEN GRIFFITHS	STAFF REIMBURSEMENT - TRAINING EXPENSES	\$	119.80
16/01/2020	69259	GR & LC CHRISTIAN	RENTAL LEASE AGREEMENT	\$	1,240.00
30/01/2020	69660	GR & LC CHRISTIAN	RENTAL LEASE AGREEMENT	\$	1,240.00
24/01/2020	69635	GRACE RECORDS MANAGEMENT (AUSTRALIA) PTY LTD	STORAGE SERVICES	\$	440.46
22/01/2020	69607	GRASSIAS TURF MANAGEMENT	CRICKET PITCH MANAGEMENT SERVICES	\$	3,900.00
17/01/2020	69273	GREG JAMES SCULPTURE	SCULPTURE - PIONEER WOMAN	\$	26,907.31
22/01/2020	69611	GUMPTION PTY LTD	ADVERTISING SERVICES	\$	4,200.00
17/01/2020	69271	HALIFAX CRANE HIRE PTY LTD	CRANE HIRE	\$	3,404.64
22/01/2020	69329	HALIFAX CRANE HIRE PTY LTD HANSON CONST. MATERIALS PTY LTD	CRANE HIRE	\$	4,752.00 5.715.60
22/01/2020	69530	TIANSON CONST. WATERIALS I'II ETD	CONCRETE SERVICES	\$	3,713.00
22/01/2020 31/01/2020	69492 69687	HARVEY NORMAN AV/IT SUPERSTORE BUSSELTON HELEN READING	ELECTRICAL APPLIANCE SERVICES ART SALES	S S	19.00 19.60
16/01/2020		HIF	HEALTH INSURANCE	\$	247.85
22/01/2020		HIP POCKET WORK WEAR AND SAFETY	UNIFORMS & PROTECTIVE CLOTHING	\$	2,482.49
22/01/2020		ILLION AUSTRALIA PTY LTD	BUSINESS NAME AND COMPANY SEARCHES	\$	445.65
22/01/2020	69393	IMAGE ON LINE	MARKETING	\$	261.25
31/01/2020	69695	IN SIGHT PHOTOGRAPHY	PHOTOGRAPHY SERVICES	\$	1,400.00
22/01/2020	69442	INTERNATIONAL ON THE WATER HOTEL	ACCOMMODATION	\$	175.00
3/01/2020	69201	IPWEA-WA	CORPORATE MEMBERSHIP	\$	990.00
22/01/2020	69573	IPWEA-WA	SUBSCRIPTION FEES	\$	319.00
22/01/2020	69486	JAMES BENNETT	SPECIALIST LIBRARY RESOURCES	\$	237.25
10/01/2020	69246	JAMES WILD	ART SALES	\$	1,089.00
22/01/2020	69451	JCW ELECTRICAL GROUP PTY LTD	ELECTRICAL CONTRACTING	\$	670.45
10/01/2020	69230	JENNIFER BROWN	ART SALES	\$	144.80
31/01/2020 22/01/2020	69683 69323	JENNIFER BROWN JIGSAW SIGNS & PRINT	ART SALES SIGNAGE SERVICES	\$	65.20 2,883.00
22/01/2020	69363	JIMS FIRST	HARDWARE SUPPLIES	\$	962.67
17/01/2020	69299	JOHANNA INVESTMENTS PTY LTD	RATES REFUND	\$	47.79
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# List of Payments January 2020

25 March 2020

DATE	REF#	NAME	DESCRIPTION		AMOUNT
22/01/2020	69384	JONES MARINE	DIVING MAINTENANCE	\$	990.00
10/01/2020	69257	JUICE PRINT	PRINTING SERVICES	\$	356.50
22/01/2020	69621	JUICE PRINT	PRINTING SERVICES	\$	567.60
31/01/2020 17/01/2020	69690 69306	JULIE GUTHRIDGE KALOORUP BUSHFIRE BRIGADE	ART SALES PETTY CASH REIMBURSEMENT	\$	53.90 175.51
17/01/2020	69295	KANGAROO ISLAND MAYORAL RELIEF AND	KANGAROO ISLAND BUSHFIRE RECOVERY DONATION	\$	1,000.00
10/01/2020	69232	KATE WESTERN	VACATION CARE CONSUMABLES REIMBURSED	Ś	102.50
17/01/2020	69286	KATE WESTERN	VACATION CARE CONSUMABLES REIMBURSED	\$	128.00
31/01/2020	69685	KATE WESTERN	VACATION CARE SUPPLIES	\$	83.30
22/01/2020	69506	KATHERINE ANNE ROSHER	REFUND DOG REGISTRATION	S	150.00
22/01/2020	69404	KATIE GARNETT	WELLNESS PROGRAM	\$	1,400.00
22/01/2020	69524	KD POWER & CO	MAINTENANCE SERVICES	\$	2,647.10
22/01/2020	69476	KEEL RESOURCES PTY LTD	CONSULTING SERVICES	S	1,584.00
10/01/2020	69237	KENT LYON ARCHITECT	DESIGN SERVICES	\$	4,158.00
31/01/2020	69675	KEVAN COLLETT	ART SALES	\$	10.50
17/01/2020 24/01/2020	69275 69647	KIDSAFE WA PLAYGROUND ADVISORY SERVICE KIRSTY PALME	PLAYGROUND AUDIT BOND REFUND - ANIMAL TRAP	\$	165.00
22/01/2020	69563	KLEENHEAT GAS	GAS SERVICES	\$	1,438.68
22/01/2020	69455	KMART BUSSELTON	RETAIL HOME WARES - VACATION CARE	\$	16.00
22/01/2020	69534	KONNECT	MAINTENANCE SUPPLIES	\$	342.08
22/01/2020	69536	LANDGATE (VALUER GENERAL'S OFFICE)	LAND VALUATIONS	5	9,866.09
22/01/2020	69529	LANDGATE CUSTOMER ACCOUNT	LAND INFORMATION AND TITLE SEARCHES	S	366.80
22/01/2020	69332	LANDSAVE ORGANICS	LANDSCAPING SERVICE	\$	9,240.00
22/01/2020	69557	LAWRENCE & HANSON	ELECTRICAL/PROTECTIVE CLOTHING SUPPLIES	\$	1,644.36
17/01/2020	69308	LD TOTAL	LANDSCAPING SERVICES	\$	4,455.00
22/01/2020	69321	LEEUWIN CIVIL PTY LTD	HIRE EQUIPMENT SERVICES	\$	3,767.68
22/01/2020	69606	LEEUWIN TRANSPORT	COURIER SERVICES	\$	764.29
22/01/2020	69499	LEOPARD CONTROLS	ENERGY MANAGEMENT SYSTEM-LICENCE UPGRADE	\$	1,017.50
10/01/2020	69226	LGISWA	ADJUSTMENT INSURANCE PREMIUMS	\$	1,743.97
22/01/2020 22/01/2020	69465 69445	LIFE READY PHYSIO & PILATES BUSSELTON LIGHT APPLICATION PTY LTD	MUSCULOSKELETAL FUNCTIONAL CAPACITY LIGHTING SERVICE WORK	\$	148.50 148.50
22/01/2020	69482	UNDA READ	ARTWORK	5	250.00
22/01/2020	69633	LOCAL GOVERNMENT PROFESSIONALS AUSTRALIA (WA DIVISION)	TRAINING SERVICES	\$	7,950.00
16/01/2020	69266	LOCAL GOV'T RACE COURSE & CEMETERY EMPLOYEES	UNION FEES	\$	358.76
30/01/2020	69667	LOCAL GOV'T RACE COURSE & CEMETERY EMPLOYEES	UNION FEES	\$	358.76
22/01/2020	69501	LOCK AROUND THE CLOCK	SECURITY SERVICES	\$	1,555.00
22/01/2020	69603	LOCK AROUND THE CLOCK	SECURITY SERVICES	\$	926.00
22/01/2020	69348	LOMAX MEDIA	ADVERTISING	\$	363.00
22/01/2020	69378	LOTEX FILTER CLEANING SERVICE	PLANT FILTER CLEANING SERVICE	S	452.89
20/01/2020	69312	MAIA FINANCIAL	LEASING PAYMENTS	\$	10,624.30
22/01/2020	69525	MALATESTA ROAD PAVING & HOTMIX	ROAD HOTMIX / PAVING SERVICES	\$	24,499.70
10/01/2020	69216	MARGARET PARKE	ART SALES	\$	52.80
20/01/2020	69278	MARGARET RIVER BUSSELTON TOURISM ASSOCIATION	PAYMENT CANCELLED	s	47.022.44
22/01/2020 22/01/2020	69373 69350	MARGARET RIVER BUSSELTON TOURISM ASSOCIATION MARGARET RIVER FENCING	FINANCIAL ASSISTANCE LOCAL VISITORS CENTRE MAINTENANCE SERVICES	\$	47,923.44 1,782.00
22/01/2020	69377	MARKETFORCE PTY LTD	ADVERTISING SERVICES	\$	3,203.21
10/01/2020	69227	MARTINE PERRET	ART SALES	\$	40.60
10/01/2020	69256	MCGREGOR WJ & J	MANAGEMENT BUSSELTON JETTY TOURIST PARK	\$	43,559.85
24/01/2020	69651	MCGREGOR WJ & J	REIMBURSE PLUMBING EXPENSE	S	132.00
22/01/2020	69489	MDM ENTERTAINMENT PTY LTD	DVD AND CD SUPPLY TO LIBRARY	s	843.31
22/01/2020	69483	MECHANICAL PROJECT SERVICES	AIRCONDITIONING & REFRIGERATION SERVICES	\$	4,950.00
10/01/2020	69236	MICHAEL VIVIAN	ART SALES	\$	82.60
31/01/2020	69689	MICHAEL VIVIAN	ART SALES	\$	8.40
3/02/2020	69710	MIGUEL DIAS FERNANDES	SUNDRY STAFF PAYROLL REFUND	\$	624.45
22/01/2020	69590	MODERN TEACHING AIDS PTY LTD	LIBRARY RESOURCES	\$	109.97
22/01/2020	69396 69517	MOORE STEPHENS WA PTY LTD  MP ROGERS & ASSOCIATES PTY LTD	TRAINING SERVICES CONSULTANCY SERVICES	\$	2,497.01
22/01/2020		I IVIT NUUERO & ASSULIATES PTT LID	ICONSOLIANCI SERVICES		8,196.18
	69211	MRS R PRIDEALIX	ROADWORKS ROND		2 224 00
10/01/2020	69311 69218	MRS R PRIDEAUX NALDA HOSKINS	ROADWORKS BOND ART SALES	\$	3,224.00 301.50
10/01/2020 31/01/2020	69218	NALDA HOSKINS	ROADWORKS BOND ART SALES ART SALES	\$	301.50
10/01/2020 31/01/2020 22/01/2020			ART SALES	\$	
31/01/2020	69218 69680	NALDA HOSKINS NALDA HOSKINS	ART SALES ART SALES	\$ \$ \$	301.50 198.90
31/01/2020 22/01/2020	69218 69680 69360	NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY	ART SALES ART SALES EMBROIDERY SERVICES	\$ \$ \$	301.50 198.90 148.00
31/01/2020 22/01/2020 22/01/2020	69218 69680 69360 69330	NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT	\$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69680 69360 69330 69450 69382 69456	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EBBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TURF MAINTENANCE SERVICES	\$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020	69218 69680 69360 69330 69450 69382 69456 69206	NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TUSH MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES	\$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020	69218 69680 69360 69330 69450 69382 69456 69206 69233	NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TURF MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES NATIONAL BROADBAND SERVICES	\$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020	69218 69680 69360 69330 69450 69382 69456 69206 69233 69474	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TURF MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES NATIONAL BROADBAND SERVICES GPS TELEMATICS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00 921.80
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69680 69360 69330 69450 69382 69456 69206 69233 69474 69630	NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NESTSTAR AUSTRALIA PTY LTD NEVERFAIL SPRINGWATER LTD	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TURF MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES NATIONAL BROADBAND SERVICES WATER SERVICES WATER SERVICES WATER SERVICES WATER REFILL SERVICE - DUNS WASTE FACILITY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00 921.80
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69680 69360 69330 69450 69382 69456 69206 69233 69474 69630 69527	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NEVERFALL SPRINGWATER LTD NICHOLIS MACHINERY	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TUBF MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES NATIONAL BROADBAND SERVICES OPS TELEMATICS WATER REFILL SERVICE - DUNS WASTE FACILITY PLANT PURCHASES / SERVICES / PARTS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020	69218 69680 69360 69330 69450 69456 69206 69233 69474 69630 69527 69192	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HOGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NEVERFALL SPRINGWATER LTD NICHOLLS MACHINERY NIGHTLIER MUSIC PTY LTD	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TURF MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES NATIONAL BROADBAND SERVICES GPS TELEMATICS WATER REFILL SERVICE – UNIS WASTE FACILITY PLANT PURCHASES / SERVICES / PARTS MUSIC AND VIDEO SUBSCRIPTION SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23 413.92
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 01/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 24/01/2020 24/01/2020	69218 69680 69360 69330 69450 69456 69266 69233 69474 69630 69527 69192	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NEVERFALL SPRINGWATER LTD NICHOLIS MACHINERY	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TUBF MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES NATIONAL BROADBAND SERVICES OPS TELEMATICS WATER REFILL SERVICE - DUNS WASTE FACILITY PLANT PURCHASES / SERVICES / PARTS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23 413.92 413.92
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020	69218 69680 69360 69330 69450 69456 69206 69233 69474 69630 69527 69192	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NICHOLLS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  OFF TELEMATICS  WATER REFILL SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  MUSIC AND VIDEO SUBSCRIPTION SERVICES  MUSIC AND VIDEO SUBSCRIPTION SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23 413.92
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020 3/01/2020	69218 69680 69360 69350 69450 69382 69456 69206 69233 69474 69630 69527 69529 69640 69190	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALLA PTY LTD NEVERFALL SPRINGWATER LTD NICHOLIS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  GPS TELEMATICS  WATER REFILL SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 921.80 501.10 3,812.23 413.92 413.92 47,355.00
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020 3/01/2020 8/01/2020 8/01/2020	69218 69680 69360 69350 69450 69456 69265 69263 6927 69192 69640 69190 69205	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NEVERFALL SPRINGWATER LTD NICHOLLS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE	ART SALES ART SALES EMBROIDERY SERVICES STAFF REIMBURSEMENT METAL FABRICATION HYGIENE SERVICES TURF MAINTENANCE SERVICES NATIONAL BROADBAND SERVICES NATIONAL BROADBAND SERVICES GPS TELEMATICS WATER REFILL SERVICE – UNIS WASTE FACILITY PLANT PURCHASES / SERVICES / PARTS MUSIC AND VIDEO SUBSCRIPTION SERVICES MUSIC AND VIDEO SUBSCRIPTION SERVICES CLEANING SERVICES CLEANING SERVICES CLEANING SERVICES CLEANING SERVICES CLEANING SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 921.80 501.10 3,812.23 413.92 413.92 47,355.00 2,451.22
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 24/01/2020 3/01/2020 8/01/2020 24/01/2020	69218 69680 69360 69350 69450 69456 69206 69206 69233 69474 69630 69527 69192 69640 69190 69205 69205	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NICHOLLS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  OFS TELEMATICS  WATER REFILL SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23 413.92 413.92 47,355.00 2,451.22
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020 3/01/2020 22/01/2020 3/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69580 69360 69330 69450 69382 69456 69206 69233 69474 69630 69527 69192 69640 69190 69293 69383 69433 69433 69478	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NESTAR AUSTRALIA PTY LTD NETSTAR AUSTRALIA PTY LTD NICHOLLS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OFEICEWORKS OFILIVAC AUSTRALIA PTY LTD ONEMUSIC AUSTRALIA PTY LTD	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  GPS TELEMATICS  WATER REFILL SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  OFFICE EQUIPMENT SERVICES  OFFICE EQUIPMENT SERVICES  OIL CHANGING EQUIPMENT  PAYMENT CANCELLED	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23 413.92 47355.00 2,451.22 187.00 770.99
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020 3/01/2020 24/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69680 69360 69330 69450 69456 69456 69206 69233 69474 69630 69527 69640 69190 69205 69383 69433 69478 69652 69652	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HOGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALLA PTY LTD NEVERFALL SPRINGWATER LTD NICHOLIS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OFFICEWORKS OILVAC AUSTRALLA PTY LTD ONEMUSIC AUSTRALLA PTY LTD ONEMUSIC AUSTRALLA PTY LTD OCEAN AIR CARPET CARE OFFICEWORKS OILVAC AUSTRALLA PTY LTD ONEMUSIC AUSTRALLA PTY LTD ONEMUSIC AUSTRALLA PTY LTD	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  WATER REFILL SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  OFFICE EQUIPMENT SERVICES  OFFICE EQUIPMENT SERVICES  OFFICE EQUIPMENT SERVICES  OFFICE QUIPMENT SERVICES  OFFICE ACQUIPMENT SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 921.80 921.80 921.80 413.92 413.92 413.92 473.95.00 2,451.22 187.00 770.99 144.10
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 8/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 24/01/2020 24/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69680 69360 69330 69450 69382 69456 69206 69233 69474 69630 69527 69192 69640 69190 69205 69383 69478 69652 69456 69478	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NEVERFALI SERVINGWATER LTD NICHOLLS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OFFICEWORKS OFFICEWORKS OFFICEWORKS OFFICEWORKS OFFICEWORKS ONLYAC AUSTRALIA ONSITE RENTAL GROUP PTY LTD ONEMUSIC AUSTRALIA ONSITE RENTAL GROUP PTY LTD	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  MATIONAL BROADBAND SERVICES  WATER REFILL SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLICANING SERVICES  OFFICE EQUIPMENT SERVICES  OLI CHANGING EQUIPMENT  PAYMENT CANCELLED  DRY HIRE  FIXED INTERNET ACCESS	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	301.50 198.90 148.00 90.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23 413.92 47,355.00 2,451.22 187.00 770.99 144.10
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020 3/01/2020 22/01/2020 24/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69580 69360 69330 69450 69382 69456 69206 69233 69474 69630 69527 69190 69527 69190 69205 69538 69433 69433 69434 6952 6952 6952 6952 6952 6952 6953	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NBN CO LIMITED NESTAR AUSTRALIA PTY LTD NEVERFALI SERVINGWATER LTD NICHOLLS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OFFICEWORKS OILVAC AUSTRALIA PTY LTD ONEMUSIC AUSTRALIA ONSITE RENTAL GROUP PTY LTD ONEMUSIC AUSTRALIA ONSITE RENTAL GROUP PTY LTD OPTUS BILLING SERVICES PTY LTD	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  MATIONAL BROADBAND SERVICES  GPS TELEMATICS  WATER REFLIX SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  OFFICE EQUIPMENT SERVICES  OIL CHANGING EQUIPMENT  PAYMENT CANCELLED  DRY HIRE  FIXED INTERNET ACCESS  ENVIRONMENTAL CONSULTANT	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	301.50 198.90 148.00 90.00 6,719.01 1,889.25 330.00 18,515.00 921.80 501.10 3,812.23 413.92 47,355.00 2,451.22 187.00 770.99 144.10
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 8/01/2020 10/01/2020 22/01/2020 3/01/2020 3/01/2020 3/01/2020 24/01/2020 24/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 21/01/2020 21/01/2020	69218 69680 69360 69330 69450 69382 69456 69233 69474 69630 69275 69192 69640 69190 69205 6933 69478 69478 69652 69454 69654 69654 69654 69654 69654 69654 69654 69654 69654 69655	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HOGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NETSTAR AUSTRALIA PTY LTD NEVERFAIL SPRINGWATER LTD NICHOLIS MACHINERY NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OFFICEWORKS OILVAC AUSTRALIA PTY LTD ONEMUSIC AUSTRALIA PTY LTD ONEMUSIC AUSTRALIA PTY LTD ONEMUSIC AUSTRALIA PTY LTD OPTUS BILLING SERVICES PTY LTD OPTUS BILLING SERVICES PTY LTD OTTELIA GROUP PTY LTD OPTUS BILLING SERVICES PTY LTD OTTELIA ECOLOGY OWEN GI SBEL	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  WATER REFILL SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  OFFICE EQUIPMENT SERVICES  OFFICE EQUIPMENT SERVICES  OIL CHANGING EQUIPMENT  PAYMENT CANCELLED  DRY HIRE  FIXED INTERNET ACCESS  ENVIRONMENTAL CONSULTANT  ART SALES	S   S   S   S   S   S   S   S   S   S	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 921.80 921.80 921.80 413.92 413.92 43.95.00 2,451.22 187.00 7770.99 144.10 12,951.25 567.20 10,776.26
31/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 3/01/2020 3/01/2020 3/01/2020 22/01/2020 24/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69218 69580 69360 69330 69450 69382 69456 69206 69233 69474 69630 69527 69190 69527 69190 69205 69527 69454 69527	NALDA HOSKINS NALDA HOSKINS NALDA HOSKINS NAMES PLUS EMBROIDERY NAOMI SEARLE NATURALISTE FABRICATION & CUSTOMS NATURALISTE HYGIENE SERVICES NATURALISTE HYGIENE SERVICES NATURALISTE TURF NBN CO LIMITED NBN CO LIMITED NBN CO LIMITED NESTAR AUSTRALIA PTY LTD NEVERFALI SERVINGWATER LTD NICHOLLS MACHINERY NIGHTLIFE MUSIC PTY LTD NIGHTLIFE MUSIC PTY LTD OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OCEAN AIR CARPET CARE OFFICEWORKS OILVAC AUSTRALIA PTY LTD ONEMUSIC AUSTRALIA ONSITE RENTAL GROUP PTY LTD ONEMUSIC AUSTRALIA ONSITE RENTAL GROUP PTY LTD OPTUS BILLING SERVICES PTY LTD	ART SALES  ART SALES  EMBROIDERY SERVICES  STAFF REIMBURSEMENT  METAL FABRICATION  HYGIENE SERVICES  TURF MAINTENANCE SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  NATIONAL BROADBAND SERVICES  MATIONAL BROADBAND SERVICES  GPS TELEMATICS  WATER REFLIX SERVICE - DUNS WASTE FACILITY  PLANT PURCHASES / SERVICES / PARTS  MUSIC AND VIDEO SUBSCRIPTION SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  CLEANING SERVICES  OFFICE EQUIPMENT SERVICES  OIL CHANGING EQUIPMENT  PAYMENT CANCELLED  DRY HIRE  FIXED INTERNET ACCESS  ENVIRONMENTAL CONSULTANT	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	301.50 198.90 148.00 90.00 176.00 6,719.01 1,889.25 330.00 921.80 501.10 3,812.23 413.92 47.355.00 2,451.22 187.00 770.99 144.10

22/01/2020	60420	DASCRAODE AUTOMOTIVE	VEHICLE MAINTENANCE CERVICES	S	476.80
	69420	PASSMORE AUTOMOTIVE	VEHICLE MAINTENANCE SERVICES		
8/01/2020	69210	PAUL F BYRNE	REFUND WORKS BOND	\$	9,808.00
22/01/2020	69624	PAUL McDANIEL	AUDIO EQUIPMENT HIRE	S	200.00
22/01/2020	69395	PEKO PEKO	FESTIVAL ACTIVITY	\$	150.00
22/01/2020					4,753.13
	69537	PENDREY AGENCIES P/L	CHEMICAL / RURAL SUPPLIES	\$	
10/01/2020	69245	PETER MOULD ARCHITECT PTY LTD	ARCHITECTURAL SERVICES	\$	5,500.00
22/01/2020	69631	PFD FOOD SERVICES PTY LTD	GLC KIOSK PURCHASES	\$	47.90
22/01/2020	69346	PHASE 3 LANDSCAPE CONSTRUCTION PTY LTD	LANDSCAPING & RETICULATION SERVICES	\$	4,441.73
10/01/2020	69213	PHIL HOLLETT PHOTOGRAPHY	ART SALES	\$	971.65
31/01/2020	69673	PHIL HOLLETT PHOTOGRAPHY	ART SALES	S	266.05
31/01/2020	69671	PHILIP BERRY	ART SALES	\$	19.80
				\$	458.70
22/01/2020	69327	PHOENIX FOUNDRY PTY LTD	MEMORIAL PLAQUES SUPPLIER		
22/01/2020	69629	PHYSIO SOUTHWEST	STAFF WELLNESS PROGRAM	\$	1,152.00
22/01/2020	69510	PK COURIERS	COURIER SERVICES	S	287.10
22/01/2020	69507	PLAYROPE GROUP PTY LTD	PLAYGROUND EQUIPMENT SUPPLIES	\$	264.00
22/01/2020	69466	POWER MEDICAL CENTRE	PRE EMPLOYMENT MEDICAL	\$	797.50
22/01/2020	69547	PRESTIGE PRODUCTS	HOSPITALITY EQUIPMENT SUPPLIER	\$	257.40
17/01/2020	69279	PRIMARY LOGISTICS	CLEANING CONTRACT	\$	1,724.80
22/01/2020	69430	PRIME MEDIA GROUP LTD	ADVERTISING SERVICES	\$	2,172.50
20/01/2020	69310	PRIME URBAN WA PTY LTD	LANDSCAPE IMPLEMENTATION BOND	\$	2,838.00
22/01/2020	69502	PROFESSIONAL CABLING SERVICES	CABLING SERVICES	\$	2,387.00
22/01/2020	69542	PRO-LINE KERBING	KERBING SERVICES	\$	2,616.90
22/01/2020	69391	PVR INDUSTRIAL PTY LTD	INDUSTRIAL PUMP REPAIRS	\$	3,828.00
22/01/2020	69461	QCLICK & KANGA HOSTING AUSTRALIA	WEBSITE HOSTING SERVICES	\$	198.00
31/01/2020	69707	QCLICK & KANGA HOSTING AUSTRALIA	WEBSITE HOSTING SERVICES	s	286.00
22/01/2020	69531	RAECO INTERNATIONAL PTY LTD	LIBRARY RESOURCES	\$	148.50
22/01/2020	69550	REPCO AUTO PARTS	PLANT PURCHASES / SERVICES / PARTS	\$	409.77
22/01/2020	69432	RETHINK MARKETING	MARKETING	\$	202.40
	69594	RICOH BUSINESS CENTRE	OFFICE EQUIPMENT SERVICES - PHOTOCOPYING	\$	6,720.01
22/01/2020					
31/01/2020	69704	RICOH BUSINESS CENTRE	OFFICE EQUIPMENT SERVICES - PHOTOCOPYING	\$	6,698.95
22/01/2020	69618	RMS (AUST) PTY LTD	SOFTWARE SERVICES	\$	59.40
22/01/2020	69544	ROD'S AUTO ELECTRICS	AUTO ELECTRICAL SERVICES	\$	2,673.69
22/01/2020	69566	ROTARY CLUB OF BUSSELTON GEOGRAPHE BAY	SPONSORSHIP / ADVERTISING	\$	5,000.00
22/01/2020	69528	ROYAL LIFE SAVING SOCIETY - WESTERN AUSTRALIA	TRAINING SERVICES	\$	763.40
31/01/2020	69701	ROYAL LIFE SAVING SOCIETY - WESTERN AUSTRALIA	TRAINING SERVICES	\$	19.80
17/01/2020	69298	RUSSELL WATKINS	BJTP REFUND	\$	364.00
3/02/2020	69709	RW QUANTITY SURVEYORS	CONSULTANCY SERVICES	\$	2,475.00
22/01/2020	69609	SAFE & SURE SECURITY PTY LTD	SECURITY SERVICES - ALARM OCCURRENCE	\$	3,575.00
22/01/2020	69564	SAI GLOBAL LTD	AUST STANDARDS PUBLICATIONS	\$	263.92
24/01/2020	69646	SAI GLOBAL LTD	AUST STANDARDS PUBLICATIONS	\$	300.36
22/01/2020	69612	SANITY - BUSSELTON	LIBRARY RESOURCES	\$	59.98
22/01/2020	69345	SCOPE BUSINESS IMAGING	PREVENTATIVE SERVICE PLAN	\$	192.50
22/01/2020	69457	SEA CHANGE NEWS	STATIONERY AND OFFICE SUPPLIES	\$	38.00
22/01/2020	69493	SELECT CIVIL PTY LTD	EQUIPMENT HIRE	\$	24,200.00
31/01/2020	69697	SHARYN RICKWOOD	BOND REFUND - ANIMAL TRAP	\$	100.00
22/01/2020	69408	SHERRI DANIELS	ENTERTAINER	\$	150.00
22/01/2020	69626	SHORE COASTAL PTY LTD	COASTAL CONSULTANCY SERVICES	\$	5,808.00
22/01/2020	69575	SIGMA COMPANIES GROUP PTY LTD	CHEMICAL SUPPLIER	\$	96.80
			CATERING		
22/01/2020	69417	SIMMO'S ICE CREAMERY		\$	152.65
31/01/2020	69678	SIMON SPARKES	STAFF REIMBURSEMENT - TRAINING FEES	\$	120.00
22/01/2020	69496	SKYWALKER ROPE ACCESS PTY LTD	ROPE ACCESS PAINTING SERVICES	\$	11,471.07
				s	
16/01/2020	69261	SMARTSALARY PTY LTD	SALARY PACKAGING SERVICE		18,824.56
30/01/2020	69662	SMARTSALARY PTY LTD	SALARY PACKAGING SERVICE	\$	16,858.84
22/01/2020	69581	SOILS AINT SOILS	NURSERY SUPPLIES	\$	19.00
			OCCUPATIONAL HEALTH SERVICES		
22/01/2020	69352	SONIC HEALTH PLUS PTY LTD		\$	297.00
22/01/2020	69622	SOUTH WEST COUNSELLING	EAP SERVICES	\$	3,580.50
31/01/2020	69706	SOUTH WEST COUNSELLING	RATE REFUND	\$	1,869.34
22/01/2020	69591	SOUTH WEST CYCLES	CYCLE SUPPLIER	\$	95.00
22/01/2020	69354	SOUTH WEST EMPLOYEE ASSISTANCE PROGRAM	EMPLOYEE ASSISTANCE SERVICES	\$	294.05
22/01/2020	69548	SOUTH WEST ISUZU	PLANT PURCHASES / SERVICES / PARTS	\$	796.09
22/01/2020	69469	SOUTH WEST OFFICE NATIONAL	STATIONERY	\$	2,188.65
22/01/2020	69349	SOUTH WEST PRINTING & PUBLISHING	ADVERTISING SERVICES	S	400.00
22/01/2020	69477	SOUTH WEST SAND CLEANING	SAND CLEANING OF SAND PITS	\$	275.00
22/01/2020	69532	SOUTH WEST STEEL PRODUCTS	STEEL PRODUCTS SUPPLIER	\$	451.00
22/01/2020	69423	SOUTHERN ATU SERVICES PTY LTD	WASTE MANAGEMENT SERVICES	\$	3,328.40
22/01/2020	69458	SOUTHERN HABITAT NURSERY	NURSERY SUPPLIES	\$	528.00
1 22/04/2020		SOUTHERN LIGHT EVENTS	SOUND, LIGHTING AND STAGING	\$	423.50
22/01/2020	69401	SOOTHERIN EIGHT EVENTS		\$	1,639.25
22/01/2020	69523	SOUTHERN LOCK & SECURITY	SECURITY SERVICES	6	
22/01/2020 22/01/2020	69523 69340	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX	SECURITY SERVICES SIGNWRITING SERVICES	\$	429.00
22/01/2020	69523	SOUTHERN LOCK & SECURITY	SECURITY SERVICES	\$	
22/01/2020 22/01/2020 22/01/2020	69523 69340	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLIER / REPAIRER	\$	429.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD	SECURITY SERVICES SIGNUMITHING SERVICES PLANT TYRE SUPPLIER / REPAIRER EARTHWORKS	\$ \$ \$	429.00 24,883.50 396.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443 69599	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYRE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP	\$ \$ \$	429.00 24,883.50 396.00 350.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD	SECURITY SERVICES SIGNUMITHING SERVICES PLANT TYRE SUPPLIER / REPAIRER EARTHWORKS	\$ \$ \$	429.00 24,883.50 396.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443 69599 69511	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCE EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC SPOTLIGHT	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES	\$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020	69523 69340 69571 69443 69599 69511 69224	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYPE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL	\$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020	69523 69340 69571 69443 69599 69511 69224 69388	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYRE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL	\$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020	69523 69340 69571 69443 69599 69511 69224	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPYMER TECHNOLOGIES PTY LTD	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYPE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL	\$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443 69599 69511 69224 69388	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYRE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL	\$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 20/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443 69599 69511 69224 69388 69369 69334	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES STRAYMOW STANDLOGGIES PTY LTD ST JOHN AMBULANCE	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYPE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTY PRODUCTS AND SERVICES TRAINING SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443 69599 69511 69224 69388 69369 69334 69418	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPYKER TECHNOLOGIES PTY LTD ST JOHN AMBULANCE STALEY FOOD & PACKAGING	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES CLEANING CHEMICALS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00 11,318.86
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443 69599 69511 69224 69388 69369 69334 69418 69509	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST THES SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPYMER TECHNOLOGIES PTY LTD ST JOHN AMBULANCE STALEY FOOD & PACKAGING STEWART & HEATON CLOTHING CO PTY LTD	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES CLEANING CHEMICALS PROTECTIVE CLOTHING SUPPLIER	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00 11,318.86 2,874.07
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020	69523 69340 69571 69443 69599 69511 69224 69388 69369 69334 69418	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPYKER TECHNOLOGIES PTY LTD ST JOHN AMBULANCE STALEY FOOD & PACKAGING	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES CLEANING CHEMICALS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00 11,318.86
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 16/01/2020	69523 69340 69571 69443 69559 69511 69224 69388 69369 69334 69418 69509 69260	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES STALEY FOOD & PACKAGING STALEY FOOD & PACKAGING STEWART & HEATON CLOTHING CO PTY LTD STOCKER PRESTON	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYPE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES TRAINING SERVICES CLEANING CHEMICALS PROTECTIVE CLOTHING SUPPLIER RENT - A NOTITLE	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 6,745.64 436.00 11,318.86 2,874.07 860.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 30/01/2020 30/01/2020	69523 69340 69571 69443 69559 69511 69224 69388 69369 69334 69418 69509 69260 69661	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPYKER TECHNOLOGIES PTY LTD ST JOHN AMBULANCE STALEY FOOD & PACKAGING STEWART & HEATON CLOTHING CO PTY LTD STOCKER PRESTON STOCKER PRESTON	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES CLEANING CHEMICALS PROTECTIVE CLOTHING SUPPLIER RENT - A NOTTLE RENT - A NOTTLE	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00 11,318.86 2,874.07 860.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 30/01/2020 31/01/2020	69523 69340 69571 69543 69599 69511 69224 69388 69369 69334 69418 69509 6960 69661 69708	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPYKER TECHNOLOGIES PTY LTD ST JOHN AMBULANCE STALEY FOOD & PACKAGING STEWART & HEATON CLOTHING CO PTY LTD STOCKER PRESTON STOCKER PRESTON STRUCTWELL ENGINEERS	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES CLEANING CHEMICALS PROTECTIVE CLOTHING SUPPLIER RENT - A NOTTLE RENT - A NOTTLE STRUCTURAL ENGINEERING CONSULTANTS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00 11,318.86 2,874.07 860.00 860.00 2,887.50
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 30/01/2020 30/01/2020	69523 69340 69571 69443 69559 69511 69224 69388 69369 69334 69418 69509 69260 69661	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPYKER TECHNOLOGIES PTY LTD ST JOHN AMBULANCE STALEY FOOD & PACKAGING STEWART & HEATON CLOTHING CO PTY LTD STOCKER PRESTON STOCKER PRESTON	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES CLEANING CHEMICALS PROTECTIVE CLOTHING SUPPLIER RENT - A NOTTLE RENT - A NOTTLE	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00 11,318.86 2,874.07 860.00
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 30/01/2020 31/01/2020 31/01/2020	69523 69340 69571 69443 69599 69511 69224 69389 69334 69418 69509 69260 69661 69708	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURE ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES STALEY FOOD & PACKAGING STALEY FOOD & PACKAGING STEWART & HEATON CLOTHING CO PTY LTD STOCKER PRESTON STOCKER PRESTON STOCKER PRESTON STUCTWELL ERGINEERS SUEZ RECYCLING & RECOVERY PTY LTD	SECURITY SERVICES SIGNWRITHING SERVICES PLANT TYPE SUPPLIER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL CUTY PRODUCTS AND SERVICES TRAINING SERVICES TRAINING SERVICES CLEANING CHEMICALS PROTECTIVE CLOTHING SUPPLIER RENT - A NOTILE RENT - A NOTILE STRUCTURAL ENGINEERING CONSULTANTS WASTE MANAGEMENT SERVICES	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745.64 436.00 11,318.86 2,874.07 860.00 860.00 2,887.50 9,051.29
22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 10/01/2020 22/01/2020 22/01/2020 22/01/2020 22/01/2020 30/01/2020 31/01/2020	69523 69340 69571 69543 69599 69511 69224 69388 69369 69334 69418 69509 6960 69661 69708	SOUTHERN LOCK & SECURITY SOUTHWEST GEOGRAPHIX SOUTHWEST TYRE SERVICE SPENCER EARTHWORKS PTY LTD SPORTS TURF ASSOCIATION (WA) INC SPOTLIGHT SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPRAYMOW SERVICES SPYKER TECHNOLOGIES PTY LTD ST JOHN AMBULANCE STALEY FOOD & PACKAGING STEWART & HEATON CLOTHING CO PTY LTD STOCKER PRESTON STOCKER PRESTON STRUCTWELL ENGINEERS	SECURITY SERVICES SIGNWRITING SERVICES PLANT TYRE SUPPLER / REPAIRER EARTHWORKS MEMBERSHIP VACATION CARE SUPPLIES BUSH FIRE INSPECTION WORKS/WEED CONTROL BUSH FIRE INSPECTION WORKS/WEED CONTROL CCTV PRODUCTS AND SERVICES TRAINING SERVICES CLEANING CHEMICALS PROTECTIVE CLOTHING SUPPLIER RENT - A NOTTLE RENT - A NOTTLE STRUCTURAL ENGINEERING CONSULTANTS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	429.00 24,883.50 396.00 350.00 84.55 3,135.00 792.00 6,745,64 436.00 11,318.86 2,874.07 860.00 860.00 2,887.50

# 25 March 2020

DATE	REF#	NAME	DESCRIPTION	AMOUNT
31/01/2020 22/01/2020	69698 69604	SUPERSONIC SCIENCE SURVCON PTY LTD	BOND REFUND - FACILITY HIRE SURVEY SERVICES	\$ 200.00 \$ 423.50
22/01/2020	69412	SW ENVIRONMENTAL	ENVIRONMENTAL SERVICES	\$ 1,553.75
22/01/2020	69546	SW PRECISION PRINT	PRINTING SERVICES	\$ 187.00
22/01/2020	69452	SWEET & UNIQUE (WA) PTY LTD T/AS LUV A LOLLY	CONFECTIONERY -GLC CAFÉ	\$ 302.75
24/01/2020	69643	TEARLES ELECTRICAL	ELECTRICAL SERVICES	\$ 302.17
17/01/2020	69305	TECHNOLOGY ONE LIMITED	SOFTWARE SERVICES	\$ 1,967.90
22/01/2020	69579	TECHNOLOGY ONE LIMITED TENDERLINK.COM	SOFTWARE SERVICES	\$ 2,112.00 \$ 165.00
22/01/2020 22/01/2020	69424 69446	THE GOOD EGG CAFE	TENDER ADVERTISING VENUE HIRE AND CATERING	\$ 165.00 \$ 375.00
22/01/2020	69504	THE LEGACY CLUB OF WESTERN AUSTRALIA INCORPORATED	REFUND LEASE OVERPAYMENT FEE	\$ 39.60
22/01/2020	69487	THE POD CONSULTANCY PTY LTD	BUSINESS COACHING	\$ 495.00
22/01/2020	69431	THE SEBEL BUSSELTON	ACCOMMODATION	\$ 203.30
3/01/2020	69196	THE SPACE STATION (AUSTRALIA) PTY LTD	STRATEGIC MARKETING	\$ 1,925.00
22/01/2020	69375	THE URBAN COFFEE HOUSE	CATERING	\$ 86.00
17/01/2020	69291	THINK WATER DUNSBOROUGH	RETICULATION SERVICES	\$ 1,475.00
22/01/2020 3/01/2020	69491 69197	THINK WATER DUNSBOROUGH THOMAS ECKERT	RETICULATION SERVICES  CARPENTRY WORK	\$ 9,902.38 \$ 3,700.00
8/01/2020	69209	THOMAS ECKERT	CARPENTRY WORK	\$ 2,325.00
10/01/2020	69247	THOMAS ECKERT	CARPENTRY WORK	\$ 1,500.00
22/01/2020	69508	THOMAS POWELL	REIMBURSE SAFETY EQUIPMENT	\$ 230.00
22/01/2020	69617	TILTFORCE TRANSPORT	TILT TRAY SERVICES	\$ 275.00
22/01/2020	69475	TOLL TRANSPORT PTY LTD	COURIER SERVICES	\$ 346.07
10/01/2020	69249	TOM COLLINS	ART SALES	\$ 528.00
22/01/2020	69561 69325	TOTAL EDEN PTY LTD  TOTAL GREEN RECYCLING	RETICULATION SUPPLIES RECYCLING E-WASTE SERVICES	\$ 4,125.00 \$ 1,257.80
10/01/2020	69254	TOTAL HORTICULTURAL SERVICES	LANDSCAPING SERVICES	\$ 27,859.48
22/01/2020	69610	TOTAL HORTICULTURAL SERVICES	LANDSCAPING SERVICES	\$ 5,647.13
22/01/2020	69467	TOTAL TOOLS	VARIOUS TOOLS	\$ 2,563.00
22/01/2020	69632	T-QUIP	MOWER PARTS & SERVICE	\$ 2,092.30
10/01/2020	69214	TRACIE ANDERSON	ART SALES	\$ 112.50
31/01/2020	69674	TRACIE ANDERSON	ART SALES  ART PROGRAM FACILITATOR / ART SALES	\$ 57.60
31/01/2020 22/01/2020	69691 69614	TRACIE WALSH TRADE HIRE	PLANT HIRE & EQUIPMENT SERVICES	\$ 24.00 \$ 6,999.51
17/01/2020	69270	TRAFFIC FORCE	TRAFFIC MANAGEMENT SERVICES	\$ 16,650.87
22/01/2020	69317	TRAFFIC FORCE	TRAFFIC MANAGEMENT SERVICES	\$ 1,603.54
22/01/2020	69379	TROPHIES ON TIME	NAME BADGE SUPPLIER	\$ 199.50
22/01/2020	69419	TRUCK CENTRE (WA) PTY LTD	NEW VEHICLE PARTS & SERVICE	\$ 1,621.13
24/01/2020	69645	TRUCKLINE	PLANT PURCHASES / SERVICES / PARTS	\$ 296.01
22/01/2020	69380 69397	TRUE BLUE TURF	TURF SERVICES WHEEL ALIGNMENT SERVICES	\$ 950.95 \$ 664.00
22/01/2020	69381	TRUE TRACK TRUCK ALIGNING  TYRECYCLE PTY LTD	TYRE RECYCLING	\$ 664.00 \$ 2,379.13
22/01/2020	69448	TYRES & MORE DUNSBOROUGH	TYRE SALES AND SERVICE	\$ 45.00
3/01/2020	69198	UNITING CHURCH IN AUSTRALIA PROPERTY TRUST OF WA	RETURN OF LEASE FEE	\$ 39.60
31/01/2020	69677	URSULA FAHRER	ART SALES	\$ 161.60
10/01/2020	69225	VALSPAR PAINT	PAINTING SUPPLIES	\$ 421.04
22/01/2020	69394	VALSPAR PAINT	PAINTING SUPPLIES	\$ 421.04
22/01/2020 17/01/2020	69447 69284	VENDORPANEL PTY LTD VIVA BOOKS	MULTI PARTY EVALUATIONS BOOKS AND GIFTS	\$ 11,399.55 \$ 69.98
22/01/2020	69598	VM VISIMAX	STATIONERY SUPPLY	\$ 79.20
31/01/2020	69696	VOGUE FURNITURE	OFFICE EQUIPMENT SUPPLIER	\$ 955.00
22/01/2020	69341	VOICES OF THE VASSE	MUSICAL PERFORMANCE	\$ 100.00
22/01/2020	69342	VORGEE PTY LTD	PRODUCT SUPPLIES FOR GLC PRO SHOP	\$ 431.75
22/01/2020	69567	WA TREASURY CORPORATION	LOAN REPAYMENTS	\$ 103,934.88
28/01/2020 24/01/2020	69659 69641	WA TREASURY CORPORATION  WALCON MARINE AUSTRALASIA PTY LIMITED	LOAN REPAYMENTS PORT GEOGRAPHE FINGER JETTY	\$ 117,918.20 \$ 40,960.25
24/01/2020	69656	WALCON MARINE AUSTRALASIA PTY LIMITED	PORT GEOGRAPHE FINGER JETTY	\$ 11,340.31
22/01/2020	69316	WALGA	WALGA TRAINING SERVICES	\$ 3,120.00
22/01/2020	69468	WATERCHEM AUSTRALIA PTY LTD	ODOUR TREATMENT	\$ 1,980.00
22/01/2020	69353	WAVESOUND PTY LTD	LIBRARY RESOURCES	\$ 2,360.60
3/01/2020	69187	WELARM PTY LTD	BUSSELTON GROUNDWATER INVESTIGATION	\$ 20,848.44
17/01/2020	69285	WELL DONE INTERNATIONAL PTY LTD WEST AUSTRALIAN ELECTORAL COMMISSION	AFTERHOURS CALL CENTRE SERVICE	\$ 7,862.25 \$ 107,334.01
22/01/2020	69578 69473	WEST AUSTRALIAN ELECTORAL COMMISSION WESTBOOKS	BOND REFUND / ELECTION EXPENSES LIBRARY RESOURCES	\$ 107,334.01 \$ 3,373.91
22/01/2020	69436	WESTERN AUSTRALIAN ALTERNATIVE ENERGY	SOLAR PANEL INSTALLATION	\$ 96,733.58
22/01/2020	69386	WESTERN IRRIGATION PTY LTD	BORE AND IRRIGATION SERVICES	\$ 5,062.75
22/01/2020	69533	WESTERN POWER CORPORATION	ELECTRICAL SERVICES	\$ 37,302.00
22/01/2020		WESTRAC EQUIPMENT P/L	PLANT PURCHASES / SERVICES / PARTS	\$ 545,340.03
22/01/2020		WESTSIDE TILT TRAY SERVICE	ABANDONED CAR REMOVAL	\$ 660.00
22/01/2020		WHITCOMBE DRAFTING SERVICES WHO'S ON LOCATION LIMITED	CIVIL DESIGN AND DRAFTING ELECTRONIC VISITOR MANAGEMENT SYSTEM	\$ 3,330.00 \$ 70.00
31/01/2020		WIN MCGILL	ART SALES	\$ 14.00
22/01/2020		WINC AUSTRALIA PTY LTD	STATIONERY SUPPLIER	\$ 1,692.34
24/01/2020		WITH ARCHITECTURE STUDIO PTY LTD	ARCHITECTURAL SERVICES	\$ 5,500.00
22/01/2020	69514	WOOD & GRIEVE ENGINEERS	CONSULTANCY SERVICES	\$ 2,353.23
22/01/2020		WORK CLOBBER	PROTECTIVE CLOTHING SUPPLIER	\$ 2,342.00
22/01/2020		WORK METRICS	HEALTH AND SAFETY SOFTWARE	\$ 110.00
22/01/2020 22/01/2020		WORKFORCE ROAD SERVICES WORKSAFE GUARDIAN AUSTRALIA	LINE MARKING SERVICES WORKSAFE FOR RANGERS WELFARE	\$ 3,289.00 \$ 891.00
22/01/2020		WREN OIL	WASTE OIL SERVICES	\$ 49.50
22/01/2020		YAHAVA KOFFEE WORKS WHOLESALE	COFFEE PRODUCTS GLC CAFÉ	\$ 437.50
17/01/2020		YALLINGUP COASTAL VOLUNTEER BUSHFIRE BRIGADE	PETTY CASH REIMBURSEMENT	\$ 344.36
17/01/2020		YELVERTON LIQUID WASTE	LIQUID WASTE REMOVAL	\$ 7,265.50
22/01/2020	69540	ZIPFORM	PRINTING SERVICES	\$ 3,134.90
				\$ 4,057,205.12

DATE	REF#	NAME	DESCRIPTION	AMOUNT
		TRUST ACCOUNT PAYMENT	S IANUARY 2020	
DATE	REF#	NAME	DESCRIPTION	AMOUNT
8/01/2020	7497	DEPARTMENT OF MINES, INDUSTRY REGULATION & SAFETY	BUILDING SERVICES LEVY	\$ 19,400.48
8/01/2020	7498	CITY OF BUSSELTON	VARIOUS REIMBURSEMENTS	\$ 529.25
8/01/2020	7499	CONSTRUCTION TRAINING FUND	BCITF LEVY	\$ 12,107.75
8/01/2020	7500	RG & R POOLE	REFUNDS	\$ 61.65
				\$ 32,099.13

		INTERNAL	PAYMENTS JANUARY 2020		
DATE	REF#	NAME	DESCRIPTION	$\top$	AMOUNT
7/01/2020		ACIMVOICE PL BAMBIL PTY & OTHERS	REFUND OF RATE OVERPAYMENT	\$	6,527.
1/12/2019		ANZ BANK - VISA CARD	CREDIT CARD PAYMENT - LISTED BELOW	\$	17,449.
		BAKED BUSSELTON	MORNING TEA - MEETING	\$	9.
		APPLE ITUNES	ICOULD STORAGE	\$	1.
		BAKED BUSSELTON	MORNING TEA - MEETING	\$	13.
		DEPT OF WATER AND ENV	CLEARING PERMITS	\$	2,400.
		CHEEKY MONKEY BREWERY	CEO/MAYOR LUNCH WITH SHIRE OF AUG/MR	\$	94.
		THE GOOD EGG CAFÉ	HOSPITALITY - CITY OF BUNUBYR MEETING	\$	131.
		CAVES HOUSE HOTEL	COUNCIL END OF YEAR FUNCTION	S	3,585
		QANTAS	FLIGHTS - RCA BOARD MEETING	\$	436
		THE FIRESTATION	MAYORS LUNCHEON	\$	351
		VIRGIN AUSTRALIA	FLIGHTS - RCA BOARD MEETING	\$	422
		VIRGIN AUSTRALIA	BOOKING FEE	\$	4
		WILSON PARKING PERTH	PLANNING REFORM MEETING - PARKING	\$	16
		CANVA	MONTHLY ARTWORK PURCHASES	\$	1
		FACEBOOK	ADVERTISING - GLC	\$	66
-		FACEBOOK	ADVERTISING - ARTGEO	\$	3
		AIR SERVICES AUSTRALIA	ERSA 12 MONTH RENEWAL	\$	134
		SENDGRID	PHOENIX SOFTWARE MONTHLY SUBSCRIPTION	\$	22
		CANVA	MONTHLY ARTWORK PURCHASES		
		MRBTA DISCOVERY PARKS	TICKETS TO MEMBER MINGLE ACCOM - WA TOURISM CONFERENCE	\$	50 372
		DISCOVERY PARKS DISCOVERY PARKS	ACCOM - WA TOURISM CONFERENCE  ACCOM - WA TOURISM CONFERENCE	\$	372
		MARGARET RIVER FURNITURE	FURNITURE FOR NEW CABIN AT BITP	\$	3,670
		COLOUR POWDER AUSTRALIA	COLOURED POWDER HOLIDAY ACTIVITIES	\$	124
		BUSSELTON RETRAVISION	FRIDGE/TV FOR NEW CABIN AT BJTP	\$	777
		KMART ONLINE	FITOUT OF CABIN AT BJTP	\$	221
		EDA	MEMBERSHIP	Ś	440
		KMART ONLINE	FITOUT OF CABIN AT BJTP	Ś	15
		WOOLWORTHS	FITOUT OF CABIN AT BITP	Ś	
		CANVA	MONTHLY ARTWORK PURCHASES	\$	1
		THE REJECT SHOP	FITOUT OF CABIN AT BJTP	S	-
$\overline{}$		THE REJECT SHOP	FITOUT OF CABIN AT BJTP	Ś	2
		YAROOMS INTERNATIONAL	YAROOMS CUSTOM PLAN	\$	977
		COLES EXPRESS	FUEL	\$	101
$\overline{}$		WA NEWS	BDT CHRISTMAS MESSAGE	Ś	50
		BP WILLIAMS	FUEL	\$	81
		AKOLADE PTY LTD	SOCIAL MEDIA WA SUMMIT	S	1,868
		SAI GLOBAL	CONFINED SPACE - AUSTRALIAN STANDARD	\$	23
		DYMOCKS ONLINE	BOOKS 'TURN THE SHIP AROUND'	\$	55
		MAILCHIMP	BAY TO BAY ELECTRONIC NEWSLETTER SUBSCRIPTION	\$	290
		APPLE ITUNES	ICLOUD STORAGE PLAN	\$	
2/01/2020	4008	ANZ BANK	BANK FEES	\$	4,21
2/01/2020	4009	ANZ BANK	BANK FEES	\$	15
6/01/2020	4011	ANZ BANK	BANK FEES	\$	190
6/01/2020	4012	ANZ BANK	BANK FEES	\$	169
6/01/2020	4013	ANZ BANK	BANK FEES	\$	460
6/01/2020	4014		BANK FEES	\$	2,774
9/01/2020	4021	ARGENTA HOLDINGS PTY LTD	REFUND OF RATE OVERPAYMENT	\$	2,148
4/01/2020	4027	CJCRAGGS	REFUND OF RATE OVERPAYMENT	\$	456
1/12/2019	4005	CALTEX AUSTRALIA PETROLEUM PTY LTD	FUEL SERVICES	\$	67,722
1/12/2019	4002	CITY OF BUSSELTON	SPECIAL PAYS	\$	1,89
5/01/2020	4007	CITY OF BUSSELTON	PAYROLL & SALARIES	\$	785,13
0/01/2020	4019	CITY OF BUSSELTON	REFUND INCORRECT BPAY PAYMENT	\$	10
7/01/2020	4023	CITY OF BUSSELTON	REFUND INCORRECT BPAY PAYMENT	\$	10
5/01/2020	4030	CITY OF BUSSELTON	PAYROLL & SALARIES	\$	803,08
3/01/2020	4010	COMMONWEALTH BANK	BANK FEES	\$	1,32
5/01/2020	4018	COMMONWEALTH BANK	BANK FEES	\$	14
3/01/2020		CPR OUTDOOR CENTRE	REFUND CANCELLED DEVELOPMENT APPLICATION	\$	14
7/01/2020	4024		REFUND OF RATE OVERPAYMENT	\$	49:
0/01/2020	4026	GEIZO PTY LTD	REFUND OF RATE OVERPAYMENT	\$	1,80
4/01/2020	4028	GEO BAY HOLDING PARK	REFUND OF POOL SAMPLING FEE OVERPAYMENT	\$	540
0/01/2020	4031	H & D COOKE	REFUND OF RATE OVERPAYMENT	\$	42
1/01/2020	4032	K LEE	REFUND BOOKING FEE PAID B-PAY	\$	8.
6/01/2020	4015	LES MILLS ASIA PACIFIC	CONTRACT FEES	\$	582
6/01/2020	4016	LES MILLS ASIA PACIFIC	CONTRACT FEES	\$	485
8/01/2020	4020	M BREALEY	REFUND CANCELLED DEVELOPMENT APPLICATION	\$	380
4/01/2020 8/01/2020	4022 4029	P HANRAHAN & H RYAN P R MCKEE	REFUND OF DATE OVERDAYAMENT	\$	124
			REFUND OF RATE OVERPAYMENT		1,790

# 12.2 <u>Finance Committee - 11/03/2020 - FINANCIAL ACTIVITY STATEMENTS - YEAR TO DATE AS AT</u> 31 JANUARY 2020

**STRATEGIC GOAL** 6. LEADERSHIP Visionary, collaborative, accountable

**STRATEGIC OBJECTIVE** 6.1 Governance systems, process and practices are responsible,

ethical and transparent.

**SUBJECT INDEX**Budget Planning and Reporting

**BUSINESS UNIT** Financial Services

**REPORTING OFFICER** Manager Financial Services - Paul Sheridan

**AUTHORISING OFFICER** Director Finance and Corporate Services - Tony Nottle

plans and policies (excluding local planning policies), tenders, setting and amending budgets, funding, donations and sponsorships,

reviewing committee recommendations

**VOTING REQUIREMENT** Simple Majority

ATTACHMENTS Attachment A Investment Report January 2020 1

Attachment B Financial Activity Statement January 2020 L

This item was considered by the Finance Committee at its meeting on 11 March 2020, the recommendations from which have been included in this report.

#### COUNCIL DECISION AND COMMITTEE RECOMMENDATION AND OFFICER RECOMMENDATION

C2003/099 Moved Councillor P Carter, seconded Deputy Mayor K Hick

That the Council receives the statutory financial activity statement reports for the period ending 31 January 2020, pursuant to Regulation 34(4) of the *Local Government (Financial Management)* Regulations.

CARRIED 9/0

**EN BLOC** 

#### **EXECUTIVE SUMMARY**

Pursuant to Section 6.4 of the Local Government Act 1995 (the Act) and Regulation 34(4) of the Local Government (Financial Management) Regulations 1996 (the Regulations), a local government is to prepare, on a monthly basis, a statement of financial activity that reports on the City's financial performance in relation to its adopted / amended budget.

This report has been compiled to fulfil the statutory reporting requirements of the Act and associated Regulations, whilst also providing the Council with an overview of the City's financial performance on a year to date basis for the period ending 31 January 2020.

#### **BACKGROUND**

The Regulations detail the form and manner in which financial activity statements are to be presented to the Council on a monthly basis, and are to include the following:

- Annual budget estimates
- Budget estimates to the end of the month in which the statement relates
- Actual amounts of revenue and expenditure to the end of the month in which the statement relates
- Material variances between budget estimates and actual revenue/expenditure (including an explanation of any material variances)
- The net current assets at the end of the month to which the statement relates (including an explanation of the composition of the net current position)

Additionally, and pursuant to Regulation 34(5) of the Regulations, a local government is required to adopt a material variance reporting threshold in each financial year. At its meeting on 31 July 2019, the Council adopted (C1907/131) the following material variance reporting threshold for the 2019/20 financial year:

That pursuant to Regulation 34(5) of the Local Government (Financial Management) Regulations, the Council adopts a material variance reporting threshold with respect to financial activity statement reporting for the 2019/20 financial year as follows:

- Variances equal to or greater than 10% of the year to date budget amount as detailed in the Income Statement by Nature and Type/Statement of Financial Activity report, however variances due to timing differences and/or seasonal adjustments are to be reported on a quarterly basis; and
- Reporting of variances only applies for amounts greater than \$25,000.

#### **OFFICER COMMENT**

In order to fulfil statutory reporting requirements and to provide the Council with a synopsis of the City's overall financial performance on a year to date basis, the following financial reports are attached hereto:

#### Statement of Financial Activity

This report provides details of the City's operating revenues and expenditures on a year to date basis, by nature and type (i.e. description). The report has been further extrapolated to include details of non-cash adjustments and capital revenues and expenditures, to identify the City's net current position; which reconciles with that reflected in the associated Net Current Position report.

#### **Net Current Position**

This report provides details of the composition of the net current asset position on a full year basis, and reconciles with the net current position as per the Statement of Financial Activity.

#### **Capital Acquisition Report**

This report provides full year budget performance (by line item) in respect of the following capital expenditure activities:

- Land and Buildings
- Plant and Equipment
- Furniture and Equipment
- Infrastructure

#### Reserve Movements Report

This report provides summary details of transfers to and from reserve funds, and associated interest earnings on reserve funds, on a full year basis.

Additional reports and/or charts are also provided as required to further supplement the information comprised within the statutory financial reports.

#### **Comments on Financial Activity to 31 January 2020**

The Statement of Financial Activity for the year to date as at 31 January 2020 shows an overall Net Current Position of \$19.2M as opposed to the amended budget of \$442K, a positive difference of \$18.8M. The following summarises the major variances in accordance with Council's adopted material variance reporting threshold that collectively make up the above difference:

	Description	2019/20 Actual YTD	2019/20 Amended Budget YTD	2019/20 Amended Budget	2019/20 YTD Bud Variance	2019/20 YTD Bud Variance
		\$	\$	\$	%	\$
Re	venue from Ordinary Acti	vities				
1.	Operating Grants, Subsidies and Contributions	3,147,987	2,267,897	4,977,647	38.81%	880,090
2.	Non-Operating Grants, Subsidies and Contributions	3,010,037	4,830,961	23,764,690	(37.69%)	(1,820,924)
Ca	pital Revenue & (Expendi	ture)				
3.	Land & Buildings	(2,219,614)	(5,764,084)	(8,381,113)	61.49%	3,544,470
	Plant & Equipment	(1,249,017)	(3,066,675)	(4,855,350)	59.27%	1,817,658
	Furniture & Equipment	(114,499)	(625,366)	(1,113,069)	81.69%	510,867
	Infrastructure	(7,859,529)	(18,002,361)	(37,545,346)	56.34%	10,142,832
4.	Proceeds from Sale of Assets	255,155	596,050	3,409,080	(57.19%)	(340,895)
5.	Transfer to Restricted Assets	(451,382)	(35,063)	(60,100)	(1187.35%)	(416,319)
6.	Transfer from Restricted Assets	607,716	0	6,319,121	100.00%	607,716
7.	Transfer from Reserves	1,232,906	1,767,906	34,669,883	(30.26%)	(535,000)

#### **Revenue from Ordinary Activities**

Year to date (YTD) actual income from ordinary activities is \$1.4M more than expected when compared to the YTD amended budget, with the following items meeting the material variance reporting threshold:

- 1. Operating Grants, Subsidies and Contributions are \$880K (net) better than amended budget. This variance is mainly due to the following:
  - Financial Services Reimbursements (10200) \$38K claim payment for storm damage to King St ramps and steps not yet allocated to the correct maintenance costs codes;
  - Legal Fees Reimbursements (10500) (\$46K) budget item included for a fine that
    was received in the 18/19 financial year. A budget amendment was processed to
    move a portion of the fine from retained earnings to a legal reserve, however a
    further budget amendment to remove this revenue item is still being investigated;
  - Human Resources Reimbursements (10521) \$37K \$18K due to conference and training reimbursements not budgeted for sufficiently and \$19K received in workers comp reimbursements with all receipts budgeted in June;
  - Contributions to Airport Operations (11151) \$49K received December but budgeted in June;

- Contributions YCAB (B1361) \$27K \$4K from City of Kwinana for the youth conference received November, \$20K from Rio Tinto received December as part of annual youth trainee sponsorship, and \$3K from Lions Club received January. Budget of \$20K in March only;
- Environmental Management Administration (10830) \$172K grant received for the Revitalizing Geographe Waterways Phase 2 project earlier than forecast;
- Protective burning and firebreaks reserve (10931) \$166K. This variance relates to receiving 50% grant awarded to the City under the mitigation activity fund (Emergency Services Levy) and will be subject to a Council report requesting that the 2019/20 budget be amended to reflect this additional income. Details of the cost codes for this amendment are being finalised;
- Bushfire Risk Management Planning Grants (10942) DFES \$72K. This variance relates
  to the payment of grant in full for the bushfire risk planning coordinator position
  within the City of Busselton. This represents a timing difference between budget
  allocations (over 12 months), and actual funds received;
- Preventative Services CLAG (10925) (\$48K) offset by budgeted expenditure that has not occurred, to the same amount;
- Pre-Primary Building & Surrounds (B1503) \$30K grant was budgeted to be received in June 2020, but was received in November 2019;
- Regional Waste Management Administration (11301) (\$37K) annual budget of \$63K spread over 12 months, but no contributions have actually been invoiced or received YTD;
- Reimbursements Old Butter Factory (B1401 & B9610) \$371K timing difference due to difficulties in predicting when LGIS would process the claims. Advice received in January that claims have been processed.

#### **Expenses from Ordinary Activities**

Expenditure from ordinary activities is \$2.9M or 6.05% less than expected when compared to the amended YTD budget. No individual items exceed the variance reporting thresholds.

#### **Non-Operating Grants, Subsidies and Contributions**

2. Non-Operating Grants, Subsidies and Contributions are less than budget by \$1.8M with the main items impacting on the above result being the timing of the receipt of funding which is also offset with less than anticipated capital expenditure at this time.

Cost Code	Cost Code Description	Variance YTD
Finance and Co.	rporate Services	(298,800)
10239	Contributions - Community Facilities	(439,330)
10250	Information & Communication Technology Services – Capital Grants Federal	144,956
Community and	524,978	
10625	Art Geo Administration – Donated Assets	35,000
C6099	Airport Development - Project Grant	477,978
Planning and D	evelopment Services	(780,887)
B1015	Hithergreen District Bushfire Brigade – Donated Assets	(465,200)
B1024	Wilyabrup Bushfire Brigade – Donated Assets	(178,300)
B1029	Busselton Branch SES – Donated Assets	(97,200)
B9109	Hithergreen Building Renovations – Capital Grant	(40,187)

Engineering and	Works Services	(1,266,214)
C1512	Port Geographe Boat Ramp Renewal Works – Capital Grant	(96,250)
C3020	Donated Assets Parks, Gardens & Reserves	329,133
C3113	Busselton Tennis Club – Infrastructure – Contribution	80,000
C3168	Busselton Foreshore Jetty Precinct – Capital Grant	(179,795)
C3186	Lou Weston Oval – Courts – Contributions	(235,000)
F0019	College Avenue – MR Capital Grant	144,000
S0035	Strelly Street / Barlee Street Roundabout – MR Capital Grant	35,093
S0051	Causeway Road / Rosemary Drive Roundabout — MR Capital Grant	(266,669)
S0064	Peel Terrace (Stanley PI/Cammilleri St Intersection Upgrade) – MR Capital Grant	(116,669)
S0069	Peel Terrace (Brown Street Intersection Upgrades) – MR Capital Grant	(58,331)
S0070	Peel & Queen Street Roundabout Service Relocation — MR Capital Grant	(91,669)
S0071	Ludlow-Hithergreen Road Safety Improvements – Fed Capital grant	461,200
S0072	Kaloorup Road - Reconstruct and Seal Shoulders — MR Capital Grant	100,000
T0019	Wonnerup South Road - Reconstruct and Widening (narrow seal) – RTR Capital Grant	(364,315)
T0085	Yoongarillup Road - Reconstruct Intersection at Vasse H/Way – RTR Capital Grant	(122,500)
T0086	Yoongarillup Road - Reconstruct & Widen (Western Section) – RTR Capital Grant	(862,225)

# **Capital Expenditure**

3. As at 31 January 2020, there is an underspend variance of 58.3% or \$16M in total capital expenditure with YTD actual at \$11.4M against the YTD amended budget of \$27.5M.

The attachments to this report include detailed listings of all capital expenditure (project) items, however the main areas of variance are summarised as follows:

Cost Code	Cost Code Description	Variance YTD
<u>Land</u>		(71,308)
10370	Busselton Cemetery	(71,308)
<b>Buildings</b>		3,615,778
B9516	Busselton Library Upgrade	297,125
B9109	Hithergreen Building Renovations	40,187
B9300/1/2	Aged Housing Capital Improvements (Winderlup, Harris Rd)	69,179
B9407	Busselton Senior Citizens	598,416
B9556	NCC Upgrade	41,665
B9591	Performing Arts Convention Centre	95,395
B9596	GLC Building Improvements	194,248
B9604	Womens Change Facility Bovell	(34,856)
B9605	Energy Efficiency Initiatives (Various Buildings	(14,520)
B9606	King Street Toilets	66,666
B9610	Old Butter Factory	(141,492)

B9716 & B9717	Airport Terminals	2,434,188
B9808	Busselton Jetty Tourist Park Upgrade	49,089
Plant & Equipme	ent ent	1,817,658
10000	Members of Council	40,000
10250	Information & Communication Technology Services	35,000
11156	Airport Development Operations	599,087
11402	Plant Purchases (P10)	495,000
11403	Plant Purchases (P11)	265,369
11404	Plant Purchases (P12)	320,000
Furniture & Office Equipment		510,867
10250	Information & Communication Technology Services	364,939
11156	Airport Development Operations	162,084
Infrastructure By	<u>y Class</u>	10,142,832
	Roads	2,249,326
	Bridges	186,000
	Car Parks	792,116
	Footpaths & Cycleways	402,984
	Parks, Gardens & Reserves	5,298,549
	Drainage	86,258
	Regional Airport & Industrial Park Infrastructure	1,127,598

Many of these items of under expenditure e.g. Main Roads construction works, also assists in explaining the above current YTD shortfall in Non-Operating Grants. In the main, many of these projects have yet to be completed and represent a timing difference.

#### **Proceeds from Sale of Assets**

4. There is a variance for the proceeds from sale of assets of (\$321K), due to timing in the changeover of vehicles and plant.

# **Transfer to Restricted Assets**

- 5. There is a variance in transfers to restricted assets of \$416K more than amended budget. The reasons for this are as follows:
  - Transfer to deposits and bonds of \$62K as opposed to a budget of \$0. These funds do not have a budget allocation as they are not able to be reliably measured;
  - Interest earned on government grants of \$33K transferred to restricted cash, for which there was no budget allocated as it was expected that the grant would have been utilized by this stage;
  - Additional bonds of \$321K were received in relation to the next stage of the Dunsborough Lakes development.

#### **Transfer from Restricted Assets**

- 6. There is a variance in transfers from restricted assets of \$608K more than amended budget. The main reason for this is as follows:
  - Transfer from Roadwork Bonds of \$547K as opposed to a budget of \$0. These funds do not have a budget allocation as they are not able to be reliably measured.

#### **Transfer from Reserves**

- 7. There is a variance for transfer from reserves of \$535K less than amended budget. The reasons for this are as follows:
  - Transfer from Jetty Maintenance Reserve of \$425K did not occur due to works not being undertaken on cost code C3497 (part of the Parks, Gardens & Reserves variance shown above), for the following reasons:
    - i. The previous expenditure figure was based on the 50 year plan.
    - ii. The 5 year structural review undertaken in 2019/2020 discovered that the Jetty was in better condition than forecast in the 50 year plan. Capital works planned for 2020 have been deferred to 2030.
    - iii. Requests for Tenders issued for maintenance works per the 5 year plan are to be awarded at the Council meeting on 29 January 2020.
    - iv. As a result budget figures have been revised for next the 5 financial years to reflect the 5 year plan.
  - Transfer from the Election, Valuation & Corporate Expenses Reserve of \$110K that
    has not occurred to cover the \$97K bill from the Electoral Commission and
    approximately \$4K in internal staff costs. This will appear in the February accounts.

#### **Investment Report**

Pursuant to the Council's Investment Policy, a report is to be provided to the Council on a monthly basis, detailing the investment portfolio in terms of performance and counterparty percentage exposure of total portfolio. The report is also to provide details of investment income earned against budget, whilst confirming compliance of the portfolio with legislative and policy limits.

As at 31 January 2020, the value of the City's invested funds totalled \$77.48M, down from \$81.48M as at 31 December 2019. The reduction is due to funds being transferred to the cheque account to meet ongoing normal operating costs.

During the month of January three term deposits totalling the amount of \$9.0M matured. One was closed, and another partially closed. Those rolled were renewed for a further 151 days at 1.66% on average.

The balance of the 11am account (an intermediary account which offers immediate access to the funds compared to the term deposits and a higher rate of return compared to the cheque account) remained steady.

The balance of the Airport Development ANZ and WATC cash accounts remained steady.

The RBA announced no rate changes in January and February. Future movements are unknown at this time although further drops are possible in coming months.

#### **Chief Executive Officer – Corporate Credit Card**

Details of monthly (December to January) transactions made on the Chief Executive Officer's corporate credit card are provided below to ensure there is appropriate oversight and awareness of credit card transactions made.

Date \$ Amount		Payee	Description		
03-Jan-20 172.80		EHB Holidings Pty Ltd Busselton	+ Senior Staff Lunch - Esplanade Hotel		
		Australian Coastal Council	National Forum Perth Registration		
14-Jan-20	24.99	Repco	Mats for Car		
15-Jan-20	1,000.00	The Salvation Army	Bushfire Disaster Recovery Donation		
15-Jan-20	1,000.00	Shout for Good Pty Ltd	Bushfire Disaster Recovery Donation		

Date	\$ Amount	Payee	Description		
15-Jan-20	1,000.00	Community Enterprise Foundation	Bushfire Disaster Recovery Donation		
15-Jan-20	1,000.00	St Vincent De Paul Society	Bushfire Disaster Recovery Donation		
16-Jan-20	95.00	Vasse Flowers Flower Arrangement - P. Vukelic			
16-Jan-20	1,219.00	Eventbrite	*LGCOG Conference Tickets Hobart		
20-Jan-20	1,240.80	Booking.com Australia	*LGCOG Conference Hobart Accomodation		
20-Jan-20	891.36	Qantas Airways	*LGCOG Conference Flights		
20-Jan-20	444.40	Jetstar Air	*LGCOG Conference Flights		
21-Jan-20	1,000.00	Redcross.org.au	Bushfire Disaster Recovery Donation		
22-Jan-20	687.58	Qantas Airways	*LGCOG Conference Flights		

<sup>\*</sup>Funds debited against CEO Annual Professional Development Allowance as per employment Contract Agreement

#### **Statutory Environment**

Section 6.4 of the Act and Regulation 34 of the Regulations detail the form and manner in which a local government is to prepare financial activity statements.

#### **Relevant Plans and Policies**

There are no relevant plans or policies to consider in relation to this matter.

#### **Financial Implications**

Any financial implications are detailed within the context of this report.

# **Stakeholder Consultation**

No external stakeholder consultation was required or undertaken in relation to this matter.

#### **Risk Assessment**

An assessment of the potential implications of implementing the officer recommendation has been undertaken using the City's risk management framework, with risks assessed taking into account any controls already in place. No risks of a medium or greater level have been identified.

#### **Options**

The Statements of Financial Activity are presented in accordance with Section 6.4 of the Act and Regulation 34 of the Regulations and are to be received. Council may wish to make additional resolutions as a result of having received these reports.

#### **CONCLUSION**

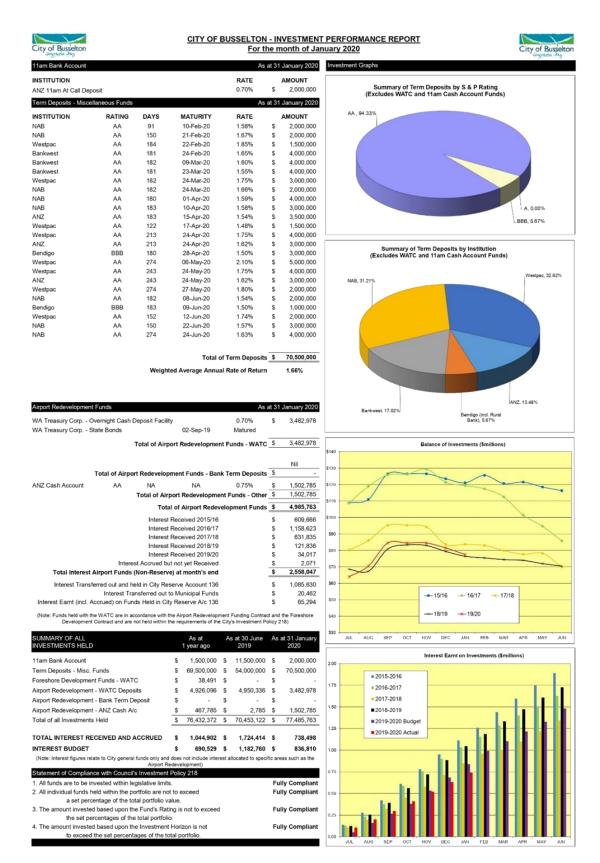
As at 31 January 2020, the City's financial performance is considered satisfactory.

#### TIMELINE FOR IMPLEMENTATION OF OFFICER RECOMMENDATION

Not applicable.

<sup>+</sup> Allocated against CEO Hospitality Expenses Allowance

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# Financial Activity Statement January 2020

25 March 2020

#### City of Busselton

# Statement of Financial Activity

#### Year to Date As At 31 January 2020

	2019/2020	2019/2020	2019/2020	2019/2020	2019/2020	2019/20
	Actual	Amended	Original	Amended	Original	YTD Bud (A)
	\$	Budget YTD \$	Budget YTD \$	Budget \$	Budget \$	Variance %
Revenue from Ordinary Activities		•				
Rates	51,917,354	51,399,313	51,399,313	51,617,412	51,617,412	1.01%
Operating Grants, Subsidies and Contributions	3,147,987	2,267,897	2,217,208	4,977,647	4,926,958	38.81%
Fees & Charges	12,098,435	12,155,564	12,106,733	16,292,090	16,292,090	-0.47%
Other Revenue	282,726	317,002	317,002	551,510	551,510	-10.81% 5.44%
Interest Earnings	1,279,073	1,213,060	1,213,060	1,955,000	1,955,000	5.44%
	68,725,575	67,352,836	67,253,316	75,393,659	75,342,970	2.04%
Expenses from Ordinary Activities						
Employee Costs	(19,694,343)	(20,328,113)	(20,328,113)	(33,303,930)	(33,303,930)	3.12%
Materials & Contracts	(9,123,115)	(10,881,070)	(10,272,690)	(19,058,249)	(18,226,504)	16.16%
Utilities (Gas, Electricity, Water etc)	(1,349,810)	(1,609,678)	(1,609,678)	(2,774,257)	(2,774,257)	16.14%
Depreciation on non current assets	(13,443,282)	(13,501,170)	(13,501,170)	(22,870,222)	(22,870,222)	0.43%
Insurance Expenses	(730,852)	(697,393)	(697,393)	(733,960)	(733,960)	-4.80%
Other Expenditure	(1,914,529)	(2,353,830)	(2,328,830)	(4,995,811)	(4,920,811)	18.66%
Allocations	1,053,561	1,258,624	1,258,624	2,161,452	2,161,452	16.29%
	(45,202,370)	(48,112,630)	(47,479,250)	(81,574,977)	(80,668,232)	6.05%
Borrowings Cost Expense						
Interest Expenses	(668,984)	(668,874)	(668,874)	(1,273,688)	(1,273,688)	-0.02%
	(668,984)	(668,874)	(668,874)	(1,273,688)	(1,273,688)	-0.02%
Non-Operating Grants, Subsidies and Contributions	3,010,037	4,830,961	4,788,983	23,764,690	32,042,712	-37.69%
Profit on Asset Disposals	16,476	66,454	74,454	70,050	78,050	-75.21%
Loss on Asset Disposals	(51,489)	(28,468)	(33,068)	(147,269)	(161,135)	-80.87%
	2,975,024	4,868,947	4,830,369	23,687,471	31,959,627	-38.90%
Net Result	25,829,245	23,440,279	23,935,561	16,232,465	25,360,677	10.19%
Adjustments for Non-cash Revenue & Expenditure Depreciation	13,443,282	13,501,170	13,501,170	22,870,222	22,870,222	
Donated Assets	(376,133)	(740,700)	(740,700)	(8,224,000)	(8,224,000)	
(Profit)/Loss on Sale of Assets	34,876	(37,986)	(41,386)	77,219	83,085	
Allocations & Other Adjustments	276,464	0	0	0	0	
Deferred Pensioner Movements (Non-current)	17,521	0	0	0	0	
Recording of Employee Benefit Provisions (NC)	0	0	0	0	0	
Deposit & Bonds Movements (cash backed NC)	(220,072)	0	0	0	0	
Capital Revenue & (Expenditure)	(2.240.65.1)	(F. 764.00 f)	(40.333.463)	(0.204.442)	(10.007.350)	64.400
Land & Buildings Plant & Equipment	(2,219,614) (1,249,017)	(5,764,084) (3,066,675)	(10,227,167) (3,395,581)	(8,381,113) (4,855,350)	(18,097,358) (4,493,000)	61.49% 59.27%
Furniture & Equipment	(1,249,017)	(625,366)	(636,102)	(1,113,069)	(1,129,169)	81.69%
Infrastructure	(7,859,529)	(18,002,361)	(17,699,004)	(37,545,346)	(36,851,773)	56.34%
Proceeds from Sale of Assets	255,155	596,050	638,050	3,409,080	3,476,580	-57.19%
Proceeds from New Loans	50,000	150,000	150,000	150,000	150,000	-66.67%
Self Supporting Loans - Repayment of Principal	39,796	37,753	37,753	76,055	76,055	5.41%
Total Loan Repayments - Principal	(1,782,460)	(1,780,704)	(1,780,704)	(3,297,412)	(3,297,412)	-0.10%
Repayment Capital Lease	(1,762,400)		(270 (40)	0	(759,300)	0.00%
	0	0	(379,648)	_		
Advances to Community Groups	(50,000)	(150,000)	(150,000)	(150,000)	(150,000)	66.67%
	0	-		_		66.67% -1187.35%
Advances to Community Groups Transfer to Restricted Assets Transfer from Restricted Assets	0 (50,000) (451,382) 607,716	(150,000) (35,063) 0	(150,000) (35,063) 0	(150,000) (60,100) 6,319,121	(150,000) (60,100) 6,315,599	-1187.35% 0.00%
Advances to Community Groups Transfer to Restricted Assets Transfer from Restricted Assets Transfer to Reserves	0 (50,000) (451,382) 607,716 (9,990,463)	(150,000) (35,063) 0 (10,599,662)	(150,000) (35,063) 0 (10,548,973)	(150,000) (60,100) 6,319,121 (21,928,731)	(150,000) (60,100) 6,315,599 (21,878,042)	-1187.35% 0.00% 5.75%
Advances to Community Groups Transfer to Restricted Assets Transfer from Restricted Assets	0 (50,000) (451,382) 607,716	(150,000) (35,063) 0	(150,000) (35,063) 0	(150,000) (60,100) 6,319,121	(150,000) (60,100) 6,315,599	-1187.35% 0.00%
Advances to Community Groups Transfer to Restricted Assets Transfer from Restricted Assets Transfer to Reserves	0 (50,000) (451,382) 607,716 (9,990,463)	(150,000) (35,063) 0 (10,599,662)	(150,000) (35,063) 0 (10,548,973)	(150,000) (60,100) 6,319,121 (21,928,731)	(150,000) (60,100) 6,315,599 (21,878,042)	-1187.35% 0.00% 5.75%
Advances to Community Groups Transfer to Restricted Assets Transfer from Restricted Assets Transfer from Restreves Transfer from Reserves	(50,000) (451,382) 607,716 (9,990,463) 1,232,906	(150,000) (35,063) 0 (10,599,662) 1,767,906	(150,000) (35,063) 0 (10,548,973) 2,567,906	(150,000) (60,100) 6,319,121 (21,928,731) 34,669,883	(150,000) (60,100) 6,315,599 (21,878,042) 34,856,860	-1187.35% 0.00% 5.75%

### City of Busselton

25 March 2020

#### **Net Current Position**

#### Year to Date As At 31 January 2020

	2019/20 Actual	2019/20 Amended	2019/20 Original	2018/19 Actual
		Budget	Budget	20000000
NET CURRENT ASSETS	\$	\$	\$	\$
CURRENT ASSETS				
Cash - Unrestricted	9,845,870	646,604	646,604	3,204,485
Cash - Restricted	75,551,996	48,067,660	47,833,516	67,067,833
Sundry Debtors	1,199,974	1,800,000	1,800,000	1,809,547
Rates Outstanding - General	11,063,721	1,280,000	1,280,000	1,284,090
Stock on Hand	16,543	24,981	24,981	24,980
	97,678,104	51,819,245	51,585,101	73,390,935
LESS: CURRENT LIABILITIES				
Bank Overdraft	0	0	0	0
Sundry Creditors	2,901,240	3,751,585	3,751,585	4,572,026
Performance Bonds	2,723,438	2,943,510	2,943,510	2,943,510
	5,624,678	6,695,095	6,695,095	7,515,536
Current Position (inclusive of Restricted Funds)	92,053,426	45,124,150	44,890,006	65,875,399
Add: Cash Backed Liabilities (Deposits & Bonds)	2,723,438	2,943,510	2,943,510	2,943,510
Less: Cash - Restricted Funds	(75,551,996)	(48,067,660)	(47,833,516)	(67,067,833)
NET CURRENT ASSET POSITION	19,224,868	0	0	1,751,076

#### Financial Activity Statement January 2020 Attachment B

#### City of Busselton

25 March 2020

#### **Capital Acquisition Report**

#### Property, Plant & Equipment, Infrastructure

	Description	2019/ 20 Actual	2019/20 Amended Budget YTD	2019/20 Original Budget YTD	2019/20 Amended Budget	2019/20 Original Budget	2019/20 Budget YTD Variance
>> Prope	erty, Plant & Equipment	\$	\$	\$	\$	\$	%
	Land						
10370	Busselton Cemetery	71,308	0	0	100,000	100,000	0.00%
10610	Property Services Administration	71,308	0	0	200,000	200,000	0.00%
_	Buildings						
	Major Projects Major Project - Busselton Foreshore						
B9570	Foreshore East-Youth Precinct Community Youth Building/SLSC	0	5,000	5,000	10,000	10,000	-100.00%
B9584 B9600	Jetty Depot - Maintenance Compound Old Vasse Lighthouse	19,870 25,755	0 25,755	96,000	0 25,755	0 120,000	0.00%
		45,625	30,755	101,000	35,755	130,000	48.35%
	Major Project - Library Expansion	43,023	30,733	101,000	33,733	130,000	40.3370
B9516	Busselton Library Upgrade	18,750	315,875	315,875	361,000	361,000	-94.06%
		18,750	315,875	315,875	361,000	361,000	-94.06%
	Major Project - Administration Building						
B9010	Civic and Administration Centre Minor Upgrades	38,239	26,499	26,499	53,000	53,000	44.30%
	Buildings (Other)	38,239	26,499	26,499	53,000	53,000	44.30%
B9109	Hithergreen Building Renovations	0	40,187	40,187	68,890	68,890	-100.00%
B9300	Aged Housing Capital Improvements - Winderlup	18,251	40,000	40,000	80,000	80,000	-54.37%
B9301 B9302	Aged Housing Capital Improvements - Harris Road Aged Housing Capital Improvements - Winderlup Court (City)	5,070	40,000 12,500	40,000 12,500	60,000 151,000	60,000 151,000	-100.00% -59.44%
B9407	Busselton Senior Citizens	80,262	678,678	678,678	1,163,450	1,163,450	-88.17%
B9511 B9517	ArtGeo Building GLC - Pool Relining	41,413	19,194	19,194 29,169	32,900	32,900 50.000	115.76% 0.00%
B9517	Community Resource Centre	3,727	5,156	5,156	5,160	5,160	-27.71%
B9556	NCC Upgrade	0	41,665	41,665	50,000	50,000	-100.00%
B9588 B9591	Old Court House Building Upgrade	55,597 71,269	43,750 166,664	43,750 166,664	75,000 500,000	75,000 500,000	27.08% -57.24%
B9591 B9596	Performing Arts Convention Centre GLC Building Improvements	114,360	308,608	265,108	569,400	525,900	-57.24% -62.94%
B9604	Womens Change Facility Bovell	90,174	55,318	48,818	90,185	83,685	63.01%
B9605	Energy Efficiency Initiatives (Various Buildings	126,324	111,804	111,804	177,378	177,378	12.99%
B9606 B9607	King Street Toilets General Buildings Asset Renewal Allocation (Various Building	0 45,621	66,666 33,334	66,666 33,334	200,000 100,000	200,000 100,000	-100.00% 36.86%
B9608	Demolition Allocation (Various Buildings)	13,015	8,334	8,334	25,000	25,000	56.17%
B9609	GLC Stadium Expansion	0	15,000	15,000	30,000	30,000	-100.00%
B9610 B9716	Old Butter Factory Airport Terminal Stage 2	520,885 187,717	379,393 191,468	379,393 7,291,669	650,385 191,468	650,385 12,500,000	37.29% -1.96%
B9717	Airport Construction, Existing Terminal Upgrade	547,764	2,978,201	291,669	3,186,532	500,000	-81.61%
B9719	Busselton Works Depot - Toilets and Sewer	34,961	16,666	16,666	50,000	50,000	109.77%
B9808	Busselton Jetty Tourist Park Upgrade	2,045,691	5,390,955	9,783,793	7,731,358	274,610	-35.48% -62.05%
	Total Buildings	2,148,306	5,764,084	10,227,167	8,181,113	17,897,358	-62.73%
	Plant & Equipment						
10000	Members of Council	0	40,000	40,000	40,000	40,000	-100.00%
10001	Office of the CEO	61,283	65,000	65,000	65,000	65,000	-5.72%
10115 10200	Major Projects Administration Financial Services	75,307 38,427	80,000 40,000	80,000 40,000	80,000 40,000	80,000 40,000	-5.87% -3.93%
10250	Information & Communication Technology Services	0	35,000	35,000	35,000	35,000	-100.00%
10510	Governance Support Services	0	0	0	40,000	40,000	0.00%
10521 10530	Human Resources & Payroll Community Services Administration	0 6,975	0	0	35,000 0	35,000 0	0.00%
10530	Geographe Leisure Centre	0,975	0	0	35,000	35,000	0.00%
10600	Busselton Jetty Tourist Park	0	16,000	16,000	16,000	16,000	-100.00%
10800 10910	Planning Directorate Support	0 32,734	0 35,000	0 35,000	40,000 70,000	40,000 70,000	0.00% -6.48%
10910	Building Services Animal Control	32,734 25.149	50,000	50.000	50,000	50,000	-6.48% -49.70%
10980	Other Law, Order & Public Safety	75,448	55,000	55,000	55,000	55,000	37.18%
11101	Engineering Services Administration	39,355	40,000	40,000	40,000	40,000	-1.61%
11107	Engineering Services Design	5,250	4,500	4,500	9,000	9,000	16.67%

#### 12.2 Attachment B

#### City of Busselton

25 March 2020

#### **Capital Acquisition Report**

#### Property, Plant & Equipment, Infrastructure

	Description	2019/20	2019/20	2019/20	2019/20	2019/20	2019/20
	Description	Actual	Amended	Original	Amended	Original	Budget YTD
			Budget YTD	Budget YTD	Budget	Budget	Variance
11150	Asset Management Administration	32,369	35,000	35,000	35,000	35,000	-7.52%
11151	Airport Operations	0	0	30,000	0	30,000	0.00%
11156	Airport Development Operations	142,088	741,175	0	1,482,350	0	-80.83%
11401 11402	Transport - Workshop Plant Purchases (P10)	450,000	945,000	18,081 1,745,000	20,000 1,495,000	31,000 2,295,000	0.00% -52.38%
11403	Plant Purchases (P11)	264,631	530,000	562,000	628,000	632,000	-50.07%
11404	Plant Purchases (P12)	0	320,000	510,000	320,000	595,000	-100.00%
11406	Plant Purchases (P14)	0	0	0	40,000	40,000	0.00%
11407	P&E - P&G Smart Technologies	0	0	0	150,000	150,000	0.00%
11500	Operations Services Administration	0	35,000	35,000	35,000	35,000	-100.00%
	_	1,249,017	3,066,675	3,395,581	4,855,350	4,493,000	-59.27%
	Furniture & Office Equipment						
10250	Information & Communication Technology Services	31,044	395,983	395,983	678,842	678,842	-92.16%
10530	Community Services Administration	0	12,000	12,000	12,000	12,000	-100.00%
10590	Naturaliste Community Centre	7,292	10,214	10,214	19,227	19,227	-28.61%
10591	Geographe Leisure Centre	5,000	19,250	19,250	33,000	33,000	-74.03%
10616 10617	Winderlup Villas Aged Housing Harris Road Aged Housing	0	0	5,668 5,068	0	8,500 7,600	0.00%
10617	Art Geo Administration	10,000	10,000	10,000	10,000	10,000	0.00%
10900	Cultural Planning	48,247	0	0	55,000	55,000	0.00%
11156	Airport Development Operations	12,916	175,000	175,000	300,000	300,000	-92.62%
B1361	YCAB (Youth Precinct Foreshore)	0	2,919	2,919	5,000	5,000	-100.00%
	-	114,499	625,366	636,102	1,113,069	1,129,169	-81.69%
	Sub-Total Property, Plant & Equipment	3,583,130	9,456,125	14,258,850	14,349,532	23,719,527	-62.11%
>> Infra:	structure						
	Major Project - Busselton Foreshore						
C0053	Car Parking - Rear of Hotel Site 1	1,797	437,500	437,500	866,566	500,000	-99.59%
C0054	Barnard East Car Parking	0	56,085	56,085	79,180	79,180	-100.00%
C3094	Busselton Foreshore - Stage 3	111,888	138,292	138,292	237,082	237,082	-19.09%
C3112	Busselton Foreshore - Exercise Equipment	150	142,226	71,981	217,645	123,400	-99.89% -6,82%
C3113 C3168	Busselton Tennis Club - Infrastructure Busselton Foreshore Jetty Precinct	593,465 151,010	636,914 106,036	836,914 106,036	668,604 181,774	868,604 181,774	42.41%
C3182	Relocation of Veteran Car Club	109,638	105,071	105,071	109,640	109,640	4.35%
C3189	Fencing Possum Park Barnard East	163	11,250	11,250	30,000	30,000	-98,55%
C3206	Landscaping - Old Busselton Tennis Club Site	1,695	437,500	437,500	580,000	500,000	-99.61%
C3207	Barnard East Underground Power	0	117,759	117,759	166,250	166,250	-100.00%
C3208	Barnard East Landscaping	4,158	170,000	170,000	240,000	240,000	-97.55%
F0089	Barnard East Footpaths	0	64,628	64,628	91,240	91,240	-100.00%
	-	973,963	2,423,261	2,553,016	3,467,981	3,127,170	-59.81%
	Major Project - Administration Building						
C0043	Administration Building Carpark	0	50,000	50,000	100,000	100,000	-100.00%
	-	0	50,000	50,000	100,000	100,000	-100.00%
			30,000	30,000	100,000	100,000	100.00%
	Major Project - Lou Weston Oval						
C3186	Lou Weston Oval - Courts	155,978	1,098,650	1,098,650	1,883,400	1,883,400	-85.80%
	-	155,978	1,098,650	1,098,650	1,883,400	1,883,400	-85.80%
	Footpaths Construction						
F0019	College Avenue	224 427	210.000	210.000	260,000	360.000	6.87%
F0019	College Avenue Chester Way Dunsborough - New Footpath	224,437 70,886	210,000 58,331	58,331	360,000 100,000	360,000 100,000	21.52%
F0066	Bussell Highway Footpath Sections	177,460	205,940	205,940	353,047	353,047	-13.83%
F0080	Margaret St DUP Renewal	661	46,669	46,669	80,000	80,000	-98.58%
F0081	Windlemere Drive Dunsborough - New Path	193	85,750	85,750	147,000	147,000	-99.77%
F0082	King Street - New Path	3,572	105,000	105,000	180,000	180,000	-96.60%
F0083	Bell Drive - New Path Completing Missing Sections	38,957	30,338	30,338	52,000	52,000	28.41%
F0084 F0085	Thompson Way - New Path  Paterson Drive - New England & Foot Bridge	1,685 193	21,588 44.751	21,588 44,751	37,000 76,720	37,000 76,720	-92.20% -99.57%
F0085 F0086	Paterson Drive - New Footpath & Foot Bridge Holgate Road Path - Renewal as per AMP	193 0	44,751 8,960	44,751 8,960	76,720 15,360	76,720 15,360	-99.57% -100.00%
F0087	Sanctuary Grove Path - Renewal as per AMP	0	23,331	23,331	40,000	40,000	-100.00%
F0088	Ella Gladstone Drive Path - Renewal as per AMP	19,960	8,008	8,008	13,720	13,720	149.25%
F0090	DAIP - Disability Access	21,983	29,169	29,169	50,000	50,000	-24.64%
F0091	Criterion Track Bovell Oval	17,768	10,367	10,367	17,768	17,768	71.39%
	-	577,755	888.202	888.202	1,522,615	1,522,615	-34.95%
		3//,/35	800,202	300,202	1,322,015	1,522,015	-34.95%

#### City of Busselton

#### **Capital Acquisition Report**

#### Property, Plant & Equipment, Infrastructure

	Description	2019/ 20 Actual	2019/20 Amended Budget YTD	2019/20 Original Budget YTD	2019/20 Amended Budget	2019/20 Original Budget	2019/20 Budget YTD Variance
	Drainage Construction - Street						
D0009	Busselton LIA - Geocatch Drain Partnership WSUD Improvements	480	0	0	30,000	30,000	0.00%
D0017 D0020	Chain Avenue - Drainage Works Glenmeer Ramble Drainage Upgrade	41,619 0	41,621 29,575	0 29.575	41,621 50,700	50,700	-0.01% -100.00%
D0021	Chugg Road Drainage Upgrade	2,552	58,338	58,338	100,000	100,000	-95.63%
D0022	West Street Drainage Improvements	5,947	7,322	7,322	12,551	12,551	-18.78%
		50,598	136,856	95,235	234,872	193,251	-63.03%
	Car Parking Construction						
C0013	Yallingup Beach Car Park	75,835	47,500	38,773	75,199	66,472	59.65%
C0044 C0050	Meelup Coastal Nodes - Carpark upgrade Forth Street Groyne Carpark - Formalise and Seal	100,950	69,133 31,850	69,133 31,850	138,270 54,600	138,270 54,600	46.02% -100.00%
C0051	Vasse Oval Gravel Car Parking - Dawson (Eastern Side)	1,419	116,669	116,669	200,000	200,000	-98.78%
C0052	Vasse Kaloorup Oval Carpark Development	8,290	171,669	151,669	280,000	260,000	-95.17%
		186,494	436,821	408,094	748,069	719,342	-57.31%
	Bridges Construction						
A0014 A0022	Bussell Highway - 0241	0	186,000	186,000 0	744,000 700.000	744,000 700,000	-100.009 0.009
A0022 A0023	Yallingup Beach Road Bridge - 3347 Kaloorup Road Bridge - 3381	0	0	0	138,000	138,000	0.00%
A0024	Boallia Road Bridge - 4854	0	0	0	138,000	138,000	0.00%
		0	186,000	186,000	1,720,000	1,720,000	-100.00%
	Cycleways Construction						
F1005	End of Trip Facilities for Cyclists	1,260	20,419	20,419	35,000	35,000	-93.83%
F1021	Wayfinding for Cyclists	0	8,750	8,750	15,000	15,000	-100.00%
		1,260	29,169	29,169	50,000	50,000	-95.68%
	Townscape Construction						
C1001	Queen Street Upgrade - Duchess to Kent Street	36,743	120,000	120,000	120,000	120,000	-69.38%
C1024 C1026	Dunsborough Road Access Improvements Stage 1 Townscape Works Dunsborough	59,344 4,406	112,714 305,088	112,714 305,088	193,221 523,000	193,221 523,000	-47.359 -98.569
		100,493	537,802	537,802	836,221	836,221	-81.319
	Boat Ramps Construction	200,000	,	,			
C1502				10,000			-82.009
C1502 C1503	Old Dunsborough Boat Ramp Finger Jetty Quindalup Sea Rescue Boat Ramp	1,800	10,000	10,000	10,000	10,000 10,000	-82.00%
C1504	Abbey Boat Ramp Upgrade	1,164	10,000	10,000	10,000	10,000	-88.37%
C1512	Port Geographe Boat Ramp Renewal Works	486,562	274,638	274,638	470,810	470,810	77.16%
		489,526	304,638	304,638	500,810	500,810	60.69%
	Depot Construction						
C2006	Depot Washdown Facility Upgrades	0	48,125	48,125	82,500	82,500	-100.009
		0	48,125	48,125	82,500	82,500	-100.00%
	Beach Restoration						
C2504	Groyne Construction	0	13,272	13,272	22,754	22,754	-100.00%
C2512 C2520	Sand Re-Nourishment Coastal Protection Works	241,031 32,405	162,471 32,081	162,471 32.081	259,240 55,000	259,240 55,000	48.35% 1.01%
C2520	Broadwater Beach Coastal Protection Stage 1 of 4	72,105	75,291	75,291	403,355	403,355	-4.23%
C2524	Wonnerup Coastal Defence (Groyne)	3,321	0	0	0	0	0.00%
C2525	Wonnerup Groynes 3, 5, & 6	143,696	90,698	79,331	147,367	136,000	58.439
C2526 C2527	Baudin/ Wonnerup Groynes Storm Damage Renewal of Infrastructure	9,660	168,245 6,818	168,245 6,818	288,419 11,692	288,419 11,692	-94.26% -100.00%
C2528	Craig Street Groyne and Sea Wall	167,724	140,104	49,119	175,194	84,209	19.71%
		669,941	688,980	586,628	1,363,021	1,260,669	-2.76%
	Parks, Gardens & Reserves						
C3007	Park Furniture Replacement - Replace aged & unsafe Equip	4,846	17,500	17,500	30,000	30,000	-72.31%
C3017	Bovell Park - Upgrade Lighting	62,442	42,056	42,056	72,100	72,100	48.47%
C3024	Dunsborough Oval - Lighting Upgrade	43,102	32,081	32,081	55,000	55,000	34.35%

#### City of Busselton

#### **Capital Acquisition Report**

#### Property, Plant & Equipment, Infrastructure

	Description	2019/ 20 Actual	2019/20 Amended Budget YTD	2019/20 Original Budget YTD	2019/20 Amended Budget	2019/20 Original Budget	2019/20 Budget YTD Variance
C3046	Dunsborough - BMX / Skatebowl	599	5,000	5,000	5,000	5,000	-88.03%
C3048	BBQ Placement and Replacement	3,617	15,000	15,000	15,000	15,000	-75.89%
C3066	West Swim Jetty	0	20,000	20,000	20,000	20,000	-100.00%
C3096	Yallingup Park - Upgrades	7,768	14,000	14,000	14,000	14,000	-44.51%
C3103	Youth Skate Park	0	15,000	15,000	15,000	15,000	-100.00%
C3116	Dawson Park (Mcintyre St Pos)	0	0	0	110,000	110,000	0.00%
C3122 C3136	Rails to Trails - Continuation of Implementation Plan Vasse Oval Kaloorup - Grassing of Existing Oval	128,824 1,498	80,892 120,000	80,892 120,000	544,757 120,000	544,757 120,000	59.25% -98.75%
C3145	Churchill Park	27.526	150,101	150,101	533.439	533,439	-81.66%
C3146	Dunsborough Town Centre/ Foreshore	1,162	15,000	15,000	15,000	15,000	-92,25%
C3158	Port Geographe - Casurina Replacements on Layman Road	17,664	10,304	10,304	17,664	17,664	71.43%
C3159	Port Geographe - Burgee Cove (Western Side of Bridge)	27,656	21,294	21,294	24,000	24,000	29.88%
C3160	Port Geographe - Reticulated POS at Layman Road	18,374	17,500	17,500	17,500	17,500	4.99%
C3163 C3166	Port Geographe - Outstanding Minor Repairs	14,999 30,888	8,750 63,819	8,750 63,819	15,000	15,000 109,399	71.42% -51.60%
C3166	Vasse River Foreshore - Bridge to Bridge Geographe Bay Road (Earnshaw) Coastal Fencing Renewal	1,511	63,819	63,819	109,399 10,000	109,399	0.00%
C3177	Shade Sail Program Dawson Park/ Cloisters	47,105	50,000	50,000	50,000	50,000	-5.79%
C3187	Port Geographe Reticulation Upgrades	5,381	38,983	38,983	66,823	66,823	-86.20%
C3192	Foreshore Renewal HighStreet to CareyStreet	0	26,000	26,000	26,000	26,000	-100.00%
C3193	Cricket Wicket Renewal	11,639	7,581	7,581	13,000	13,000	53.52%
C3194	Meelup Regional Park - Capital Projects	0	0	0	163,000	163,000	0.00%
C3195 C3196	Centennial Park (West of Banks Ave) - Lighting Renewal	4,274	5,831	5,831	10,000	10,000	-26.71%
C3196 C3197	Centennial Park (West of Banks Av) - Renewal of Beach Shower Riverbank POS - Renewal of Riverbank Platform	8,495 8,780	5,831	5,831	10,000 10,000	10,000 10,000	45.69% 0.00%
C3197	Vasse SAR Area General Improvements to the Area	20,633	0	0	25,000	25,000	0.00%
C3199	Vasse SAR Area Installation of Shade Sails	0	25,000	25,000	25,000	25,000	-100.00%
C3200	Provence SAR Area General Improvements to the Area	482	0	0	75,000	75,000	0.00%
C3201	Port Geographe - Stage 3 Reticulation Upgrade	25,303	87,500	87,500	150,000	150,000	-71.08%
C3202	Port Geographe Street Light Replacement	0	0	0	50,000	50,000	0.00%
C3203	Port Geographe General Improvements/ Foreshore	1,406	0	0	30,000	30,000	0.00%
C3204	Port Geographe Eastern Side of Footbridge Landscaping Upgrad	143	0	0	20,000	20,000	0.00%
C3205 C3209	Port Geographe Native Planting area in front Sensations cafe Busselton Town Centre CBD	264	15,000	0 15,000	15,000 15,000	15,000 15,000	0.00% -100.00%
C3210	McBride Park - POS Upgrade	0	13,000	15,000	32,538	32,538	0.00%
C3211	Tulloh St (Geographe Bay Road) - POS Upgrade	0	0	0	90,332	90,332	0.00%
C3212	Siesta Park -Beach Acesss - POS Upgrade	0	0	0	13,056	13,056	0.00%
C3213	Cabarita Road - POS Upgrade	0	0	0	100,000	100,000	0.00%
C3214	Kingsford Road - POS Upgrade	0	0	0	150,653	150,653	0.00%
C3215	Monash Way - POS Upgrade	0	0	0	167,174	167,174	0.00%
C3216 C3217	Wagon Road - POS Upgrade Limestone Quarry - POS Upgrade	0	0	0	167,174 167,174	167,174 167,174	0.00%
C3217	Dolphin Road - POS Upgrade	0	0	0	91,000	91,000	0.00%
C3219	Kingfish/ Costello - POS Upgrade	0	0	0	91,000	91,000	0.00%
C3220	Quindalup Old Tennis Courts Site - POS Upgrade	0	0	0	149,587	149,587	0.00%
C3221	Cape Naturalise - POS Upgrade	0	0	0	167,392	167,392	0.00%
C3222	King St Reserve Park - POS Upgrade	0	0	0	147,348	147,348	0.00%
C3497	Busselton Jetty - Capital Expenditure	204,168	850,000	850,000	1,700,000	1,700,000	-75.98%
		730,547	1,760,023	1,760,023	5,731,110	5,731,110	-58.49%
	Airport Construction						
C6025	Installation of Bird Netting	74,823	185,240	185,240	185,240	185,240	-59.61%
		74,823	185,240	185,240	185,240	185,240	-59.61%
	Cemetery Capital Works						
C1604	Pioneer Cemetery Infrastructure Upgrades	8,189	29,414	29,414	50,425	50,425	-72.16%
C1605	Busselton Cemetery Infrastructure Upgrades	17,313	40,000	40,000	40,000	40,000	-56.72%
C1608	Dunsborough Cemetery - Car Park & Internal Upgrades	684	74,000	74,000	74,000	74,000	-99.08%
C1609	Pioneer Cemetery - Implement Conservation Plan	13,500	0	0	20,000	20,000	0.00%
C1610	Dunsborough Cemetery	2,298	20,000	20,000	20,000	20,000	-88.51%
		41,985	163,414	163,414	204,425	204,425	-74.31%
	Beach Front Infrastructure Works						
C1758	Beach Access Stairs - Bay View Cresent	0	11,613	11,613	19,910	19,910	-100.00%
C1760	King Street Reserve - Park Upgrade (Coastal Node)	0	41,706	41,706	71,499	71,499	-100.00%
C1761	Geographe Bay Road (Seagrott Road) Beach Access Renewal	0	18,750	18,750	25,000	25,000	-100.00%
			72,069	72,069	116,409	116,409	-100.00%

# Financial Activity Statement January 2020

25 March 2020

#### City of Busselton

#### **Capital Acquisition Report**

#### Property, Plant & Equipment, Infrastructure

	Description	2019/20 Actual	2019/20 Amended Budget YTD	2019/20 Original Budget YTD	2019/20 Amended Budget	2019/20 Original Budget	2019/20 Budget YTD Variance
	Aged Housing - Infrastructure Works						
C3451	Aged Housing Infrastructure (Upgrade)	0	12,000	12,000	12,000	12,000	-100.00%
		0	12,000	12,000	12,000	12,000	-100.00%
	Sanitation Infrastructure						
C3479	Vidler Road Waste Site Capital Improvements	29,432	226,611	226,611	388,480	388,480	-87.01%
C3481	Transfer Station Development	8,874	265,132	265,132	454,510	454,510	-96.65%
C3485 C3487	Site Rehabilitation - Busselton Site Rehabilitation - Dunsborough	3,338 0	583,338 875,000	583,338 875,000	1,000,000 1,500,000	1,000,000 1,500,000	-99.43% -100.00%
		41,644	1,950,081	1,950,081	3,342,990	3,342,990	-97.86%
	Airport Development						
C6087	Airport Construction Stage 2, Landside Civils & Services Inf	8.850	0	0	0	0	0.00%
C6091	Airport Construction Stage 2, Noise Management Plan	0	507,241	507,241	869,550	869,550	-100.00%
C6092 C6099	Airport Construction Stage 2, Airfield Airport Development - Project Expenses	6,200 128,911	653,901	0 693,901	1,066,760	0 1,187,110	0.00% -80.29%
		143,961	1,161,142	1,201,142	1,936,310	2,056,660	-87.60%
		143,301	1,101,171	1,601,146	1,550,510	2,030,000	-07.007
	Main Roads						
S0035	Strelly Street / Barlee Street Roundabout	141,128	106,035	9,485	112,809	16,259	33.10%
S0051 S0064	Causeway Road / Rosemary Drive Roundabout Peel Terrace (Stanley PI/Cammilleri St Intersection Upgrade)	63,624 492	820,561 248,451	820,561 248,451	1,406,680 425,912	1,406,680 425,912	-92.25% -99.80%
50068	Georgiana Molloy Bus Bay Facilities	10,848	14,784	0	14,784	0	-26.62%
S0069	Peel Terrace (Brown Street Intersection Upgrades)	205	143,409	143,409	245,849	245,849	-99.86%
S0070	Peel & Queen Street Roundabout Service Relocation	0	437,500	437,500	750,000	750,000	-100.00%
50071 50072	Ludlow-Hithergreen Road Safety Improvements Kaloorup Road - Reconstruct and Seal Shoulders	545,517 3.862	144,126 140,000	144,126 140,000	576,500 420,000	576,500 420,000	278.50% -97.24%
50317	Naturaliste Terrace Asphalt Overlay	45,291	45,291	0	45,291	0	0.00%
50321	Yoongarillup Road - Second Coat Seal	160	29,750	29,750	51,000	51,000	-99.46%
S0322	Wonnerup East Road - Prune re-Shoulder an Reseal	1,379	75,257	75,257	129,000	129,000	-98.17%
50323 S0324	Piggot Road - Second Coat Seal Georgette Street - Reconstruction & Kerbs	0	7,595 39,088	7,595 39,088	13,000 67,000	13,000 67,000	-100.00% -100.00%
S0324 S0325	Hansen Road - Asphalt Overlay & Kerbing	8,968	39,088	39,088	66,000	66,000	-76.72%
50326	Pries Road - Gravel Resheet	4,949	7,735	7,735	13,250	13,250	-36.02%
S0327	Florence Road - Gravel Resheet	20,818	7,462	7,462	12,783	12,783	178.99%
		847,240	2,305,558	2,148,933	4,349,858	4,193,233	-63.25%
e e	Roads to Recovery						
T0019	Wonnerup South Road - Reconstruct and Widening (narrow seal)	125,860	364,315	364,315	624,535	624,535	-65.45%
T0085 T0086	Yoongarillup Road - Reconstruct Intersection at Vasse H/Way Yoongarillup Road - Reconstruct & Widen (Western Section)	4,858 19,985	122,500 862,232	122,500 862,232	210,000 1,478,100	210,000 1,478,100	-96.03% -97.68%
	•	150,703	1,349,047	1,349,047	2,312,635	2,312,635	-88.83%
		130,700	2,0-10,0-11	2,0 10,0 11	2,512,655	2,022,000	
	Black Spot						
V0002	Eastern Link - Busselton Traffic Study	1,095,111	0	0	2,500,000	2,500,000	0.00%
V0003 V0004	Roundabout to Eastern Link Bridge Eastern Link Shared Path & Environmental Offsets	0 770	0	0	300,000 200,000	300,000 200,000	0.00%
V0005	Eastern Link Ford Road Environmental Approvals	94,770	0	0	150,000	150,000	0.00%
		1,190,651	0	0	3,150,000	3,150,000	0.00%
	Council Roads Initiative						
W0003	Franklin Road - Gravel Resheet	20,015	20,419	20,419	35.000	35.000	-1.98%
W0015	Gale Road - Reconstruction (50% Council)	4,830	17,500	17,500	30,000	30,000	-72.40%
W0055	Lindberg Road	29,983	10,871	10,871	18,641	18,641	175.81%
W0067 W0084	Ford Road Reconstruct and Asphalt Overlay Vasse Yallingup Siding Road	35,604 32,063	169,169 25,654	169,169 11,676	290,000 33,991	290,000 20,013	-78.95% 24.98%
W0091	Carbunup South Road - Gravel Resheet	13,256	10,969	10,969	18,800	18,800	24.98%
W0094	Fairway Drive - Intersection Works	220,748	157,500	157,500	270,000	270,000	40.16%
W0114	Wonnerup South Road - Reconstruct and Widening (narrow seal)	86,635	411,516	411,516	705,465	705,465	-78.95%
W0126 W0176	Gulberti Road - Gravel Resheet Signage (Alternate CBD Entry)	57,960 152	35,000 9,331	35,000 9,331	60,000 16,000	60,000 16,000	65.60% -98.37%
W0195	Yallingup Beach Road	43,039	43,039	0	43,039	10,000	0.00%
W0216	Fredrick Street Partial Reconstruction	1,440	23,331	23,331	40,000	40,000	-93.83%
W0224	Jones Way Asphalt Overlay	93,619	61,522	43,274	92,430	74,182	52.17%
W0227 W0230	William Drive - Asphalt Overlay, Kerb & Drainage Short Street - Asphalt Overlay & Kerb	107,855 18,371	100,324 39,088	100,324 39,088	171,992 67,000	171,992 67,000	7.51% -53.00%
0230		10,3/1	32,000	33,000	57,000	07,000	-33.00%

#### City of Busselton

#### **Capital Acquisition Report**

#### Property, Plant & Equipment, Infrastructure

	Description	2019/20 Actual	2019/20 Amended Budget YTD	2019/20 Original Budget YTD	2019/20 Amended Budget	2019/20 Original Budget	2019/20 Budget YTD Variance
W0231	Carey Street - Asphalt Overlay & Kerb	931	102,088	102,088	175,000	175,000	-99.09%
W0232	Stanley Street - Asphalt Overlay, Kerbing & Parking	375	85,757	85,757	147,000	147,000	-99.56%
W0233	Centurion Way - Asphalt Overlay & Kerbing	94,965	75,838	75,838	130,000	130,000	25.22%
W0234	King Street - Reconstruction, Drainage & Asphalt Overlay	11,950	302,169	302,169	518,000	518,000	-96.05%
W0235	Eagle Place - Asphalt Overlay & Kerbing	23,366	18,669	18,669	32,000	32,000	25.16%
W0236	Achurch Place - Asphalt Overlay & Kerbing	55,931	52,514	52,514	90,000	90,000	6.51%
W0237	Hovea Cresent - Asphalt Overlay, Kerb & Intersection Works	323,105	126,000	126,000	216,000	216,000	156.43%
W0238	Sutton Way - Asphalt Overlay & Kerb	54,984	41,412	41,412	71,000	71,000	32.77%
W0239	Silverglen Avenue - Asphalt Overlay, Kerb & Drainage	25,148	23,324	23,324	40,000	40,000	7.82%
W0240	Metricup Yelverton Road - Gravel Resheet	5,104	33,250	33,250	57,000	57,000	-84.65%
W0241	Hemsley Road - Gravel Resheet	40,369	24,507	24,507	42,000	42,000	64.72%
W0242	Doyle Road - Gravel Resheet	27,473	12,831	12,831	22,000	22,000	114.11%
W0243	Alfred Road - Gravel Resheet	1,883	29,169	29,169	50,000	50,000	-93.54%
W0244	Koorabin Drive - Reconstruction & Intersection	420	84,000	84,000	144,000	144,000	-99.50%
W0245	Wilson Avenue Quindalup	394	68,522	0	68,522	0	-99.43%
	-	1,431,968	2,215,283	2,071,496	3,694,880	3,551,093	-35.36%
	Sub-Total Infrastructure	7,859,529	18,002,361	17,699,004	37,545,346	36,851,773	-56.34%
	Grand Total - Capital Acquisitions	11,442,659	27,458,486	31,957,854	51,894,878	60,571,300	

# Financial Activity Statement January 2020

#### City of Busselton

#### Reserves Movement Report

#### For The Period Ending 31 January 2020

		2019/2020 Actual	2019/2020 Amended Budget YTD	2019/2020 Original Budget YTD	2019/2020 Amended Budget	2019/2020 Original Budget	2018/2019 Actual
100	Airport Infrastructure Renewal Reserve	\$	\$	\$	\$	\$	\$
	Accumulated Reserves at Start of Year Interest transfer to Reserves Transfer from Muni	1,821,552.89 18,859.65 0.00	1,821,552.89 23,653.00 0.00	1,821,552.89 23,653.00 0.00	1,821,552.89 40,548.00 0.00	1,821,552.89 40,548.00 0.00	1,325,501.46 41,231.55 536,450.00
	Transfer to Muni	1,840,412.54	1,845,205.89	1,845,205.89	1,726,850.89	1,705,850.89	(81,630.12)
136	Airport Marketing and Incentive Reserve						
	Accumulated Reserves at Start of Year Interest transfer to Reserves	3,396,150.77 37,164.50	3,396,150.77 44,107.00	3,396,150.77 44,107.00	3,396,150.77 75,612.00	3,396,150.77 75,612.00	1,583,014.10 77,306.67
	Transfer from Muni Transfer to Muni	226,450.00 0.00	226,450.00	226,450.00 0.00	526,416.00 (1,360,230.00)	526,416.00 (1,360,230.00)	1,735,830.00
143	Airport Noise Mitigation Reserve	3,659,765.27	3,666,707.77	3,666,707.77	2,637,948.77	2,637,948.77	3,396,150.77
	Accumulated Reserves at Start of Year	890,709.89	890,709.89	890,709.89	890,709.89	890,709.89	0.00
	Interest transfer to Reserves Transfer from Muni	9,218.19 0.00	11,571.00 0.00	11,571.00 0.00	19,836.00 0.00	19,836.00 0.00	21,159.89 869,550.00
	Transfer to Muni	0.00	0.00	0.00	(869,550.00)	(869,550.00)	0.00
147	Airport Development Reserve	899,928.08	902,280.89	902,280.89	40,995.89	40,995.89	890,709.89
	Interest transfer to Reserves	644.65	0.00	0.00	0.00	0.00	0.00
	Transfer from Muni Transfer to Muni	96,768.00 0.00	96,768.00 0.00	96,768.00 0.00	165,882.00 (165,882.00)	165,882.00 (165,882.00)	0.00
148	Airport Existing Terminal Building Reserve	97,412.65	96,768.00	96,768.00	0.00	0.00	0.00
	Accumulated Reserves at Start of Year Interest transfer to Reserves	39,882.21 412.74	39,882.21 518.00	39,882.21 518.00	39,882.21 888.00	39,882.21 888.00	0.00 882.21
	Transfer from Muni	0.00	0.00	0.00	0.00	0.00	39,000.00
106	Building Asset Renewal Reserve	40,294.95	40,400.21	40,400.21	40,770.21	40,770.21	39,882.21
	Accumulated Reserves at Start of Year	1,725,055.66	1,725,055.66	1,725,055.66	1,725,055.66	1,725,055.66	1,193,933.21
	Interest transfer to Reserves Transfer from Muni	20,330.16 424,172.00	22,400.00 424,172.00	22,400.00 424.172.00	38,400.00 727,148.00	38,400.00 727.148.00	29,072.58 894.362.38
	Transfer to Muni	0.00	0.00	0.00	(751,536.00)	(751,536.00)	(392,312.51)
404	Barnard Park Sports Pavilion Building Reserve	2,169,557.82	2,171,627.66	2,171,627.66	1,739,067.66	1,739,067.66	1,725,055.66
	Accumulated Reserves at Start of Year	10,666.20	10,666.20	10,666.20	10,666.20	10,666.20	0.00
	Interest transfer to Reserves Transfer from Muni	230.89 17,633.00	140.00 17,633.00	140.00 17,633.00	240.00 30,226.00	240.00 30,226.00	166.20 10,500.00
	transfer from Muni						
405	Railway House Building Reserve	28,530.09	28,439.20	28,439.20	41,132.20	41,132.20	10,666.20
	Accumulated Reserves at Start of Year	16,761.18	16,761.18	16,761.18	16,761.18	16,761.18	0.00
	Interest transfer to Reserves Transfer from Muni	254.53 11,452.00	217.00 11,452.00	217.00 11,452.00	372.00 19,635.00	372.00 19,635.00	261.18 16,500.00
406	Youth and Community Activities Building Reserve	28,467.71	28,430.18	28,430.18	36,768.18	36,768.18	16,761.18
	Accumulated Reserves at Start of Year	45,712.30	45,712.30	45,712.30	45,712.30	45,712.30	0.00
	Interest transfer to Reserves	652.62	595.00	595.00	1,020.00	1,020.00	712.30
	Transfer from Muni Transfer to Muni	24,990.00 0.00	24,990.00 0.00	24,990.00 0.00	42,840.00 (10,000.00)	42,840.00 (10,000.00)	45,000.00 0.00
407	Busselton Library Building Reserve	71,354.92	71,297.30	71,297.30	79,572.30	79,572.30	45,712.30
	Accumulated Reserves at Start of Year	85,071.29	85,071.29	85.071.29	85,071.29	85,071.29	0.00
	Interest transfer to Reserves	1,098.34	1,106.00	1,106.00	1,896.00	1,896.00	1,440.29
	Transfer from Muni Transfer to Muni	26,656.00 0.00	26,656.00 0.00	26,656.00 0.00	45,696.00 (111,000.00)	45,696.00 (111,000.00)	83,631.00 0.00
		112,825.63	112,833.29	112,833.29	21,663.29	21,663.29	85,071.29

### City of Busselton

### Reserves Movement Report

		2019/2020 Actual	2019/2020 Amended Budget YTD	2019/2020 Original Budget YTD	2019/2020 Amended Budget	2019/2020 Original Budget	2018/2019 Actual
		\$	\$	\$	\$ \$	Sudget \$	\$
131	Busselton Community Resource Centre Reserve	·	·	•	,	•	•
	Accumulated Reserves at Start of Year	190,875.82	190,875.82	190,875.82	190,875.82	190,875.82	156,653.93
	Interest transfer to Reserves	2,310.63	2,478.00	2,478.00	4,248.00	4,248.00	4,352.89
	Transfer from Muni	43,198.00	43,198.00	43,198.00	86,394.00	86,394.00	29,869.00
	Transfer to Muni	0.00	0.00	0.00	(5,160.00)	(5,160.00)	0.00
408	Busselton Jetty Tourist Park Reserve	236,384.45	236,551.82	236,551.82	276,357.82	276,357.82	190,875.82
	Accumulated Reserves at Start of Year	159,725.80	159.725.80	159,725.80	159,725.80	159.725.80	0.00
	Interest transfer to Reserves	2,506.97	2,072.00	2,072.00	3,552.00	3,552.00	3,454.93
	Transfer from Muni	150,913.00	150,913.00	150,913.00	258,708.00	258,708.00	218,272.00
	Transfer to Muni	0.00	0.00	0.00	(287,610.00)	(287,610.00)	(62,001.13)
		313,145.77	312,710.80	312,710.80	134,375.80	134,375.80	159,725.80
409	Geographe Leisure Centre Building Reserve						
	Accumulated Reserves at Start of Year	381,186.42	381,186.42	381,186.42	381,186.42	381,186.42	0.00
	Interest transfer to Reserves	5,087.47	4,949.00	4,949.00	8,484.00	8,484.00	7,716.49
	Transfer from Muni	151,970.00	151,970.00	151,970.00	260,521.00	260,521.00	476,928.00
	Transfer to Muni	0.00	0.00	0.00	(555,900.00)	(555,900.00)	(103,458.07)
		538,243.89	538,105.42	538,105.42	94,291.42	94,291.42	381,186.42
331	Joint Venture Aged Housing Reserve						
	Accumulated Reserves at Start of Year	1,085,870.41	1,085,870.41	1,085,870.41	1,085,870.41	1,085,870.41	997,854.77
	Interest transfer to Reserves	11,385.65	14,105.00	14,105.00	24,180.00	24,180.00	27,824.81
	Transfer from Muni	75,096.00	75,096.00	75,096.00	128,741.00	128,741.00	182,877.12
	Transfer to Muni	0.00	0.00	0.00	(152,000.00)	(152,000.00)	(122,686.29)
		1,172,352.06	1,175,071.41	1,175,071.41	1,086,791.41	1,086,791.41	1,085,870.41
403	Winderlup Aged Housing Resident Funded Reserve						
	Accumulated Reserves at Start of Year	212,501.16	212,501.16	212,501.16	212,501.16	212,501.16	186,717.69
	Interest transfer to Reserves	2,272.25	2,758.00	2,758.00	4,728.00	4,728.00	4,702.72
	Transfer from Muni	0.00	0.00	0.00	0.00	0.00	63,103.70
	Transfer to Muni	0.00	0.00	0.00	(126,000.00)	(126,000.00)	(42,022.95)
410	Naturaliste Community Centre Building Reserve	214,773.41	215,259.16	215,259.16	91,229.16	91,229.16	212,501.16
410	Naturaliste Community Centre Building Reserve						
	Accumulated Reserves at Start of Year	63,745.73	63,745.73	63,745.73	63,745.73	63,745.73	0.00
	Interest transfer to Reserves	931.62	826.00	826.00	1,416.00	1,416.00	2,078.93
	Transfer from Muni	34,832.00	34,832.00	34,832.00	59,708.00	59,708.00	159,147.00
	Transfer to Muni	0.00	0.00	0.00	(12,000.00)	(12,000.00)	(97,480.20)
		99,509.35	99,403.73	99,403.73	112,869.73	112,869.73	63,745.73
411	Civic and Administration Building Reserve						
	Accumulated Reserves at Start of Year	187,928.40	187,928.40	187,928.40	187,928.40	187,928.40	0.00
	Interest transfer to Reserves	3,094.45	2,443.00	2,443.00	4,188.00	4,188.00	2,928.40
	Transfer from Muni	164,500.00	164,500.00	164,500.00	282,000.00	282,000.00	185,000.00
	Transfer to Muni	0.00	0.00	0.00	(105,920.00)	(105,920.00)	0.00
		355,522.85	354,871.40	354,871.40	368,196.40	368,196.40	187,928.40
412	Vasse Sports Pavilion Building Reserve						
	Interest transfer to Reserves	2.11	0.00	0.00	0.00	0.00	0.00
	Transfer from Muni	315.00	315.00	315.00	536.00	536.00	0.00
110	Jetty Maintenance Reserve	317.11	315.00	315.00	536.00	536.00	0.00
	Accumulated Reserves at Start of Year	4,806,278.94	4,806,278.94	4,806,278.94	4,806,278.94	4,806,278.94	4,193,450.51
	Interest transfer to Reserves	54,432.76	62,419.00	62,419.00	107,004.00	107,004.00	108,240.24
	Transfer from Muni	534,045.00	534,045.00	534,045.00	1,286,516.00	1,286,516.00	1,249,044.00
	Transfer to Muni	0.00	(425,000.00)	(425,000.00)	(3,057,095.00)	(2,982,095.00)	(744,455.81)
150	Jetty Self Insurance Reserve	5,394,756.70	4,977,742.94	4,977,742.94	3,142,703.94	3,217,703.94	4,806,278.94
130	verty sen distribute reserve						
	Accumulated Reserves at Start of Year	365,698.37	365,698.37	365,698.37	365,698.37	365,698.37	0.00
	Interest transfer to Reserves	4,122.26	4,746.00	4,746.00	8,136.00	8,136.00	5,698.37
	Transfer from Muni	35,000.00	35,000.00	35,000.00	60,000.00	60,000.00	360,000.00

25 March 2020

### City of Busselton

### Reserves Movement Report

		2019/2020 Actual	2019/2020 Amended Budget YTD	2019/2020 Original Budget YTD	2019/2020 Amended Budget	2019/2020 Original Budget	2018/2019 Actual
		\$ 404,820.63	405,444.37	\$ 405,444.37	\$ 433,834.37	\$ 433,834.37	\$ 365,698.37
222	Asset Depreciation Reserve	,	,	,	,	,	,
	Accumulated Reserves at Start of Year	0.00	0.00	0.00	0.00	0.00	563.412.18
	Interest transfer to Reserves	0.00	0.00	0.00	0.00	0.00	14,029.57
	Transfer to Muni	0.00	0.00	0.00	0.00	0.00	(577,441.75)
		0.00	0.00	0.00	0.00	0.00	0.00
223	Road Asset Renewal Reserve						
	Accumulated Reserves at Start of Year	1,119,116.75	1,119,116.75	1,119,116.75	1,119,116.75	1,119,116.75	1,299,765.50
	Interest transfer to Reserves	23,629.11	14,532.00	14,532.00	24,912.00	24,912.00	49,255.16
	Transfer from Muni	2,017,239.00	2,017,239.00	2,017,239.00	3,458,128.00	3,458,128.00	2,550,956.00
	Transfer to Muni	0.00	0.00	0.00	(4,486,734.00)	(4,161,474.00)	(2,780,859.91)
224	Footpath/ Cycle Ways Reserve	3,159,984.86	3,150,887.75	3,150,887.75	115,422.75	440,682.75	1,119,116.75
	Accumulated Reserves at Start of Year Interest transfer to Reserves	3,670.90 3,905.48	3,670.90 49.00	3,670.90 49.00	3,670.90 84.00	3,670.90 84.00	0.00 3,670.90
	Transfer from Muni	691,019.00	691,019.00	691,019.00	1,184,602.00	1,184,602.00	231,906.00
	Transfer to Muni	0.00	0.00	0.00	(1,147,590.00)	(1,147,590.00)	(231,906.00)
		698,595.38	694,738.90	694,738.90	40,766.90	40,766.90	3,670.90
226	Other Infrastructure (Drainage, Signage, Etc.) Res	erve					
	Interest transfer to Reserves	1,348.49	0.00	0.00	0.00	0.00	0.00
	Transfer from Muni Transfer to Muni	202,419.00	202,419.00	202,419.00	347,000.00	347,000.00	0.00
	Transfer to Muni	0.00		0.00	(316,950.00)	(316,950.00)	0.00
		203,767.49	202,419.00	202,419.00	30,050.00	30,050.00	0.00
225	Parks, Gardens and Reserves Reserve						
	Interest transfer to Reserves	4,717.74	0.00	0.00	0.00	0.00	0.00
	Transfer from Muni	708,169.00	708,169.00	708,169.00	1,214,001.00	1,214,001.00	0.00
	Transfer to Muni	0.00	0.00	0.00	(1,214,000.00)	(1,134,000.00)	0.00
151	Furniture and Equipment Reserve	712,886.74	708,169.00	708,169.00	1.00	80,001.00	0.00
	Transfer from Muni Transfer to Muni	0.00	0.00	0.00	364,900.00 (364,900.00)	364,900.00 (364,900.00)	0.00
	Transfer to Wurii						
115	Plant Replacement Reserve	0.00	0.00	0.00	0.00	0.00	0.00
115	Flant Replacement Reserve						
	Accumulated Reserves at Start of Year	1,205,526.70	1,205,526.70	1,205,526.70	1,205,526.70	1,205,526.70	2,185,395.64
	Interest transfer to Reserves	11,958.11	15,659.00	15,659.00	26,844.00	26,844.00	61,462.25
	Transfer from Muni Transfer to Muni	525,427.00 0.00	525,427.00 0.00	525,427.00 0.00	900,737.00 (1,187,450.00)	900,737.00 (1,418,950.00)	1,115,712.71 (2,157,043.90)
			4.746.649.70	1 746 642 70			
137	Major Traffic Improvements Reserve	1,742,911.81	1,746,612.70	1,746,612.70	945,657.70	714,157.70	1,205,526.70
	Accumulated Reserves at Start of Year	1,495,577.97	1,495,577.97	1,495,577.97	1,495,577.97	1,495,577.97	432,138.26
	Interest transfer to Reserves	19,541.31	19,425.00	19,425.00	33,300.00	33,300.00	30,752.10
	Transfer from Muni	658,413.00	658,413.00	658,413.00	1,128,705.00	1,128,705.00	1,211,110.00
	Transfer to Muni	0.00	0.00	0.00	(2,400,000.00)	(2,400,000.00)	(178,422.39)
132	CBD Enhancement Reserve	2,173,532.28	2,173,415.97	2,173,415.97	257,582.97	257,582.97	1,495,577.97
	Accumulated Reserves at Start of Year Interest transfer to Reserves	171,316.34 3.971.80	171,316.34 2.226.00	171,316.34 2.226.00	171,316.34 3.816.00	171,316.34 3.816.00	122,490.23 3,706.11
	Transfer from Muni	322,193.00	322,193.00	322,193.00	560,188.00	560,188.00	45,120.00
	Transfer to Muni	0.00	0.00	0.00	(643,000.00)	(643,000.00)	0.00
127		497,481.14	495,735.34	495,735.34	92,320.34	92,320.34	171,316.34
127	New Infrastructure Development Reserve						
	Accumulated Reserves at Start of Year	1,803,171.42	1,803,171.42	1,803,171.42	1,803,171.42	1,803,171.42	1,834,714.76
	Interest transfer to Reserves Transfer from Muni	18,091.42 116,629.20	23,415.00 112,364.00	23,415.00 112,364.00	40,140.00 192.627.00	40,140.00 192.627.00	51,101.03 410.941.00
	Transfer from Muni Transfer to Muni	116,629.20	112,364.00	112,364.00	(1,259,942.00)	(1,259,942.00)	410,941.00 (493,585.37)
		4.037.000					
		1,937,892.04	1,938,950.42	1,938,950.42	775,996.42	775,996.42	1,803,171.42

### Financial Activity Statement January 2020

### City of Busselton

### Reserves Movement Report

		2019/2020	2019/2020	2019/2020	2019/2020	2019/2020	2018/2019
		Actual	Amended Budget	Original Budget	Amended	Original	Actual
			YTD	YTD	Budget	Budget	
141	Commonage Precinct Infrastructure Road Reserve	\$	\$	\$	\$	\$	\$
141	Commonage Precinct Infrastructure Road Reserve						
	Accumulated Reserves at Start of Year	231,223.87	231,223.87	231,223.87	231,223.87	231,223.87	225,574.67
	Interest transfer to Reserves	2,393.00	3,003.00	3,003.00	5,148.00	5,148.00	5,649.20
	_						
114	City Car Parking and Access Reserve	233,616.87	234,226.87	234,226.87	236,371.87	236,371.87	231,223.87
114	City Car Parking and Access Reserve						
	Accumulated Reserves at Start of Year	1,281,336.70	1,281,336.70	1,281,336.70	1,281,336.70	1,281,336.70	875,925.14
	Interest transfer to Reserves	14,816.04	16,639.00	16,639.00	28,524.00	28,524.00	30,250.23
	Transfer from Muni	294,693.00	294,693.00	294,693.00	505,188.00	505,188.00	538,024.00
	Transfer to Muni	0.00	0.00	0.00	(594,115.00)	(427,549.00)	(162,862.67)
	-	1,590,845.74	1,592,668.70	1,592,668.70	1,220,933.70	1,387,499.70	1,281,336.70
107	Corporate IT Systems Reserve						
	Accumulated Reserves at Start of Year Interest transfer to Reserves	80,398.99	80,398.99	80,398.99	80,398.99	80,398.99	78,625.03
	interest transfer to Reserves	832.06	1,043.00	1,043.00	1,788.00	1,788.00	1,773.96
	_	81,231.05	81,441.99	81,441.99	82,186.99	82,186.99	80,398.99
133	Election, Valuation and Corporate Expenses Reserve						
	Accumulated Reserves at Start of Year Interest transfer to Reserves	499,905.97	499,905.97 6,489.00	499,905.97 6,489.00	499,905.97	499,905.97	149,557.64 8,399.33
	Transfer from Muni	5,827.22 87,500.00	87,500.00	87,500.00	11,124.00 150,000.00	11,124.00 150,000.00	350,949.00
	Transfer to Muni	0.00	(110,000.00)	(110,000.00)	(150,000.00)	(150,000.00)	(9,000.00)
	_						
111	Legal Expenses Reserve	593,233.19	483,894.97	483,894.97	511,029.97	511,029.97	499,905.97
111	Legal Expenses Reserve						
	Accumulated Reserves at Start of Year	577,255.71	577,255.71	577,255.71	577,255.71	577,255.71	557,904.00
	Interest transfer to Reserves	5,776.59	7,497.00	7,497.00	12,852.00	12,852.00	15,035.07
	Transfer from Muni	0.00	50,689.00	0.00	50,689.00	0.00	61,364.00
	Transfer to Muni	0.00	0.00	0.00	0.00	0.00	(57,047.36)
	_	583,032.30	635,441.71	584,752.71	640,796.71	590,107.71	577,255.71
135	Performing Arts and Convention Centre Reserve						
	Transfer from Muni	0.00	0.00	0.00	2,705,530.00	2,705,530.00	0.00
	-	0.00	0.00	0.00	2,705,530.00	2,705,530.00	0.00
202	Long Service Leave Reserve						
	Accumulated Reserves at Start of Year	3,096,583.00	3,096,583.00	3,096,583.00	3,096,583.00	3,096,583.00	3,111,698.09
	Interest transfer to Reserves Transfer from Muni	31,847.77 145,831.00	40,215.00 145,831.00	40,215.00 145.831.00	68,940.00 250.000.00	68,940.00 250.000.00	93,949.05 384,190.02
	Transfer to Muni	0.00	0.00	0.00	(653,950.00)	(653,950.00)	(493,254.16)
	_						
203		3,274,261.77	3,282,629.00	3,282,629.00	2,761,573.00	2,761,573.00	3,096,583.00
203	Professional Development Reserve						
	Accumulated Reserves at Start of Year	122,771.88	122,771.88	122,771.88	122,771.88	122,771.88	113,024.66
	Interest transfer to Reserves	1,341.16	1,596.00	1,596.00	2,736.00	2,736.00	3,777.31
	Transfer from Muni	40,831.00	40,831.00	40,831.00	70,000.00	70,000.00	70,000.00
	Transfer to Muni	0.00	0.00	0.00	(71,930.00)	(71,930.00)	(64,030.09)
	_	164,944.04	165,198.88	165,198.88	123,577.88	123,577.88	122,771.88
204	Sick Pay Incentive Reserve	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			,	,
	Accumulated Reserves at Start of Year	150,403.55	150,403.55	150,403.55	150,403.55	150,403.55	175,935.04
	Interest transfer to Reserves Transfer from Muni	1,504.01 5,833.00	1,953.00 5,833.00	1,953.00 5,833.00	3,348.00 70,000.00	3,348.00 70,000.00	5,088.12 0.00
	Transfer from Muni	0.00	0.00	0.00	(71,930.00)	(71,930.00)	(30,619.61)
	_				(,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(00,010.01)
		157,740.56	158,189.55	158,189.55	151,821.55	151,821.55	150,403.55
124	Workers Compensation and Extended Sick Leave Cor	ningency Res					
	Accumulated Reserves at Start of Year	305,100.95	305,100.95	305,100.95	305,100.95	305,100.95	356,227.48
	Interest transfer to Reserves	2,949.75	3,962.00	3,962.00	6,792.00	6,792.00	8,873.47
	Transfer to Muni	0.00	0.00	0.00	(28,460.00)	(28,460.00)	(60,000.00)
	_	200 050 77	200.062.55	200.052.55	202 422 57	202 422 57	205 400 55
		308,050.70	309,062.95	309,062.95	283,432.95	283,432.95	305,100.95

### Financial Activity Statement January 2020

### City of Busselton

### Reserves Movement Report

		2019/2020 Actual	2019/2020 Amended Budget YTD	2019/2020 Original Budget YTD	2019/2020 Amended Budget	2019/2020 Original Budget	2018/2019 Actual
		\$	\$	\$	\$	\$	\$
302	Community Facilities - City District						
	Accumulated Reserves at Start of Year	2,552,707.62	2,552,707.62	2,552,707.62	2,552,707.62	2,552,707.62	2,303,095.83
	Interest transfer to Reserves	26,825.58	33,152.00	33,152.00	56,832.00	56,832.00	60,897.30
	Transfer from Muni Transfer to Muni	67,557.82 0.00	191,044.00 0.00	191,044.00 0.00	361,740.00	361,740.00	306,049.14
	Transfer to Muni	0.00	0.00	0.00	(2,203,795.00)	(2,203,795.00)	(117,334.65)
304	Community Facilities - Broadwater	2,647,091.02	2,776,903.62	2,776,903.62	767,484.62	767,484.62	2,552,707.62
	Accumulated Reserves at Start of Year	158,523.04	158,523.04	158,523.04	158,523.04	158,523.04	138,048.48
	Interest transfer to Reserves Transfer from Muni	1,672.16 4,590.54	2,058.00 7,294.00	2,058.00 7,294.00	3,528.00 12,500.00	3,528.00 12,500.00	3,656.26 16,818.30
	-						
303	Community Facilities - Busselton	164,785.74	167,875.04	167,875.04	174,551.04	174,551.04	158,523.04
	Accumulated Reserves at Start of Year	44,011.77	44,011.77	44,011.77	44,011.77	44,011.77	34,546.40
	Interest transfer to Reserves	478.40	574.00	574.00	984.00	984.00	971.37
	Transfer from Muni	5,167.11	11,669.00	11,669.00	20,000.00	20,000.00	8,494.00
	Transfer to Muni	0.00	0.00	0.00	(44,000.00)	(44,000.00)	0.00
	-	49,657.28	56,254.77	56,254.77	20,995.77	20,995.77	44,011.77
305	Community Facilities - Dunsborough						
	Accumulated Reserves at Start of Year	188,062.67	188.062.67	188.062.67	188,062.67	188,062.67	166,327.12
	Interest transfer to Reserves	2,097.63	2,443.00	2,443.00	4,188.00	4,188.00	4,549.89
	Transfer from Muni	19,022.60	14,581.00	14,581.00	25,000.00	25,000.00	17,185.66
	-	209,182.90	205,086.67	205,086.67	217,250.67	217,250.67	188,062.67
311	Community Facilities - Dunsborough Lakes Estate						
	Accumulated Reserves at Start of Year	922,772.84	922,772.84	922,772.84	922,772.84	922,772.84	525,105.39
	Interest transfer to Reserves	9,550.03	11,984.00	11,984.00	20,544.00	20,544.00	19,631.45
	Transfer from Muni	0.00	162,162.00	162,162.00	277,990.00	277,990.00	378,036.00
	-	932,322.87	1,096,918.84	1,096,918.84	1,221,306.84	1,221,306.84	922,772.84
306	Community Facilities - Geographe						
	Accumulated Reserves at Start of Year	99,175.93	99,175.93	99,175.93	99,175.93	99,175.93	95,061.38
	Interest transfer to Reserves	1,035.04	1,288.00	1,288.00	2,208.00	2,208.00	2,410.78
	Transfer from Muni	1,033.93	4,375.00	4,375.00	7,500.00	7,500.00	1,703.77
	-	101,244.90	104,838.93	104,838.93	108,883.93	108,883.93	99,175.93
310	Community Facilities - Port Geographe						
	Accumulated Reserves at Start of Year	343,509.27	343,509.27	343,509.27	343,509.27	343,509.27	335,116.76
	Interest transfer to Reserves	3,555.06	4,459.00	4,459.00	7,644.00	7,644.00	8,392.51
	-	347,064.33	347,968.27	347,968.27	351,153.27	351,153.27	343,509.27
309	Community Facilities - Vasse						
	Accumulated Reserves at Start of Year	615,585.54	615,585.54	615,585.54	615,585.54	615,585.54	589,760.45
	Interest transfer to Reserves	6,370.88	7,994.00	7,994.00	13,704.00	13,704.00	14,848.67
	Transfer from Muni Transfer to Muni	0.00	0.00	0.00	0.00 (450,000.00)	0.00 (450,000.00)	10,976.42 0.00
	-	621,956.42	623,579.54	623,579.54	179,289.54	179,289.54	615,585.54
308	Community Facilities - Airport North	021,930.42	023,379.54	023,379.34	179,209.54	179,289.34	013,363.34
	Accumulated Reserves at Start of Year	2,970,179.38	2,970,179.38	2,970,179.38	2,970,179.38	2,970,179.38	2,826,296.71
	Interest transfer to Reserves	30,740.38	2,970,179.38 38,570.00	2,970,179.38 38,570.00	66,120.00	66,120.00	2,826,296.71 71,258.67
	Transfer from Muni	0.00	148,750.00	148,750.00	255,000.00	255,000.00	72,624.00
	-	3,000,919.76	3,157,499.38	3,157,499.38	3,291,299.38	3,291,299.38	2,970,179.38
130	Locke Estate Reserve						
	Accumulated Reserves at Start of Year	1,012.99	1,012.99	1,012.99	1,012.99	1,012.99	0.00
	Interest transfer to Reserves	56.08	14.00	14.00	24.00	24.00	1,012.99
	Transfer from Muni Transfer to Muni	37,331.00 0.00	37,331.00 0.00	37,331.00 0.00	64,000.00 (64,000.00)	64,000.00 (64,000.00)	64,000.00 (64,000.00)
	naister to Mulii						
		38,400.07	38,357.99	38,357.99	1,036.99	1,036.99	1,012.99

### City of Busselton

### Reserves Movement Report

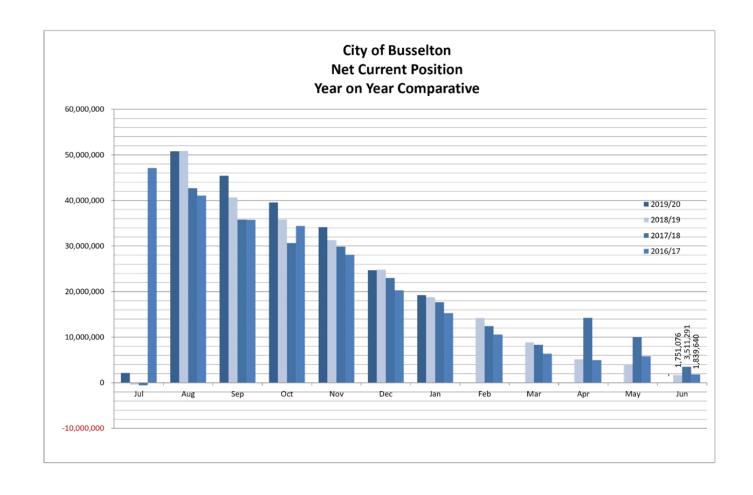
		2019/2020 Actual	2019/2020 Amended Budget YTD	2019/2020 Original Budget YTD	2019/2020 Amended Budget	2019/2020 Original Budget	2018/2019 Actual
122	Port Geographe Development Reserve	\$	\$	\$	\$	\$	\$
	Accumulated Reserves at Start of Year	682,470.41	682,470.41	682,470.41	682,470.41	682,470.41	1,455,440.82
	Interest transfer to Reserves	6,802.91	8,862.00	8,862.00	15,192.00	15,192.00	30,840.83
	Transfer from Muni	30,317.00	30,317.00	30,317.00	51,975.00	51,975.00	50,000.00
	Transfer to Muni	0.00	0.00	0.00	(599,307.00)	(599,307.00)	(853,811.24)
123	Port Geographe Waterways Managment Reserv	719,590.32 e (SAR)	721,649.41	721,649.41	150,330.41	150,330.41	682,470.41
	Accumulated Reserves at Start of Year	3,349,716.94	3,349,716.94	3,349,716.94	3,349,716.94	3,349,716.94	3,387,485.07
	Interest transfer to Reserves	3,349,716.94	43,505.00	43,505.00	74,580.00	74,580.00	3,387,485.07 87,609.18
	Transfer from Muni	125,384.00	125,384.00	125,384.00	214,942.00	214,942.00	193,747.69
	Transfer to Muni	0.00	0.00	0.00	(346,800.00)	(346,800.00)	(319,125.00)
		3,509,643.12	3,518,605.94	3,518,605.94	3,292,438.94	3,292,438.94	3,349,716.94
126	Provence Landscape Maintenance Reserve (SAR	)					
	Accumulated Reserves at Start of Year	1,194,759.54	1,194,759.54	1,194,759.54	1,194,759.54	1,194,759.54	1,101,707.78
	Interest transfer to Reserves	12,739.16	15,519.00	15,519.00	26,604.00	26,604.00	30,061.96
	Transfer from Muni	102,879.00	102,879.00	102,879.00	176,363.00	176,363.00	168,461.65
	Transfer to Muni	0.00	0.00	0.00	(203,380.00)	(203,380.00)	(105,471.85)
		1,310,377.70	1,313,157.54	1,313,157.54	1,194,346.54	1,194,346.54	1,194,759.54
128	Vasse Newtown Landscape Maintenance Reserv	e (SAR)					
	Accumulated Reserves at Start of Year	575,151.53	575,151.53	575,151.53	575,151.53	575,151.53	535,722.24
	Interest transfer to Reserves	6,196.25	7,469.00	7,469.00	12,804.00	12,804.00	15,770.06
	Transfer from Muni	105,469.00	105,469.00	105,469.00	180,801.00	180,801.00	172,922.26
	Transfer to Muni	0.00	0.00	0.00	(199,220.00)	(199,220.00)	(149,263.03)
		686,816.78	688,089.53	688,089.53	569,536.53	569,536.53	575,151.53
138	Commonage Precinct Bushfire Facilities Reserve						
	Accumulated Reserves at Start of Year	57,260.53	57,260.53	57,260.53	57,260.53	57,260.53	55,861.58
	Interest transfer to Reserves	592.60	742.00	742.00	1,272.00	1,272.00	1,398.95
139	Commonant Community Facilities Dunches and	57,853.13	58,002.53	58,002.53	58,532.53	58,532.53	57,260.53
139	Commonage Community Facilities Dunsborough	Lakes South Res					
	Accumulated Reserves at Start of Year	72,622.42	72,622.42	72,622.42	72,622.42	72,622.42	70,848.15
	Interest transfer to Reserves	751.58	945.00	945.00	1,620.00	1,620.00	1,774.27
140	Commonage Community Facilities South Biddle	73,374.00	73,567.42	73,567.42	74,242.42	74,242.42	72,622.42
140	commone community ruenties south blode	recinct Reserve					
	Accumulated Reserves at Start of Year	886,172.58	886,172.58	886,172.58	886,172.58	886,172.58	1,030,368.46
	Interest transfer to Reserves	8,582.43	11,508.00	11,508.00	19,728.00	19,728.00	25,804.12
	Transfer to Muni	0.00	0.00	0.00	0.00	0.00	(170,000.00)
321		894,755.01	897,680.58	897,680.58	905,900.58	905,900.58	886,172.58
321	Busselton Area Drainage and Waterways Impro-	vement Reserve					
	Accumulated Reserves at Start of Year	546,471.37	546,471.37	546,471.37	546,471.37	546,471.37	548,820.67
	Interest transfer to Reserves Transfer to Muni	5,600.84 0.00	7,098.00 0.00	7,098.00 0.00	12,168.00 (184,399.00)	12,168.00 (184,399.00)	13,451.35 (15,800.65)
	Transfer to Hum						
102	Coastal and Climate Adaptation Reserve	552,072.21	553,569.37	553,569.37	374,240.37	374,240.37	546,471.37
	Accumulated Reserves at Start of Year	2,845,578.60	2,845,578.60	2,845,578.60	2,845,578.60	2,845,578.60	2,472,424.34
	Interest transfer to Reserves	30,870.33	36,953.00	36,953.00	63,348.00	63,348.00	69,960.53
	Transfer from Muni	276,528.00	276,528.00	276,528.00	538,044.00	538,044.00	527,732.00
	Transfer to Muni	0.00	0.00	0.00	(1,478,489.00)	(1,259,792.00)	(224,538.27)
		3,152,976.93	3,159,059.60	3,159,059.60	1,968,481.60	2,187,178.60	2,845,578.60
144	Emergency Disaster Recovery Reserve						
	Accumulated Reserves at Start of Year	72,781.94	72,781.94	72,781.94	72,781.94	72,781.94	50,000.00
	Interest transfer to Reserves	836.77	945.00	945.00	1,620.00	1,620.00	1,781.54
	Transfer from Muni	11,669.00	11,669.00	11,669.00	20,000.00	20,000.00	21,000.40
		85,287.71	85,395.94	85,395.94	94,401.94	94,401.94	72,781.94

### Financial Activity Statement January 2020

### City of Busselton

### Reserves Movement Report

		2019/2020	2019/2020	2019/2020	2019/2020	2019/2020	2018/2019
		Actual	Amended Budget YTD	Original Budget YTD	Amended Budget	Original Budget	Actual
		\$	\$	\$	\$	\$	\$
145	Energy Sustainability Reserve						
	Accumulated Reserves at Start of Year	181,852.87	181,852.87	181,852.87	181,852.87	181,852.87	100,000.00
	Interest transfer to Reserves	2,221.29	2,359.00	2,359.00	4,044.00	4,044.00	4,474.87
	Transfer from Muni	58,331.00	58,331.00	58,331.00	130,000.00	130,000.00	100,000.00
	Transfer to Muni	0.00	0.00	0.00	(177,378.00)	(177,378.00)	(22,622.00)
		242,405.16	242,542.87	242,542.87	138,518.87	138,518.87	181,852.87
146	Cemetery Reserve						
	Accumulated Reserves at Start of Year	157,626.57	157,626.57	157,626.57	157,626.57	157,626.57	100,000.00
	Interest transfer to Reserves	2,115.04	2,044.00	2,044.00	3,504.00	3,504.00	4,098.21
	Transfer from Muni	81,081.00	81,081.00	81,081.00	139,000.00	139,000.00	77,321.95
	Transfer to Muni	0.00	0.00	0.00	(254,000.00)	(254,000.00)	(23,793.59)
		240,822.61	240,751.57	240,751.57	46,130.57	46,130.57	157,626.57
341	Public Art Reserve						
	Accumulated Reserves at Start of Year	86,198.07	86,198.07	86,198.07	86,198.07	86,198.07	229,685.21
	Interest transfer to Reserves	375.37	1,120.00	1,120.00	1,920.00	1,920.00	5,697.86
	Transfer to Muni	0.00	0.00	0.00	(41,060.00)	(41,060.00)	(149,185.00)
		86,573.44	87,318.07	87,318.07	47,058.07	47,058.07	86,198.07
121	Waste Management Facility and Plant Reserve						
	Accumulated Reserves at Start of Year	7,867,210.16	7,867,210.16	7,867,210.16	7,867,210.16	7,867,210.16	7,881,068.17
	Interest transfer to Reserves	74,835.77	102,172.00	102,172.00	175,152.00	175,152.00	200,860.10
	Transfer from Muni	613,662.00	613,662.00	613,662.00	1,051,994.00	1,051,994.00	1,312,610.77
	Transfer to Muni	0.00	0.00	(800,000.00)	(4,816,140.00)	(5,616,140.00)	(1,527,328.88)
		8,555,707.93	8,583,044.16	7,783,044.16	4,278,216.16	3,478,216.16	7,867,210.16
120	Strategic Projects Reserve						
	Accumulated Reserves at Start of Year	257,162.94	257,162.94	257,162.94	257,162.94	257,162.94	226,213.20
	Interest transfer to Reserves	2,765.85	19,362.00	19,362.00	33,192.00	33,192.00	5,949.74
	Transfer from Muni	14,581.00	14,581.00	14,581.00	31,000.00	31,000.00	25,000.00
	Transfer to Muni	0.00	0.00	0.00	(78,925.00)	(78,925.00)	0.00
		274,509.79	291,105.94	291,105.94	242,429.94	242,429.94	257,162.94
129	Untied Grants Reserve						
	Accumulated Reserves at Start of Year	1,232,906.00	1,232,906.00	1,232,906.00	1,232,906.00	1,232,906.00	0.00
	Transfer from Muni	0.00	0.00	0.00	0.00	0.00	1,232,906.00
	Transfer to Muni	(1,232,906.00)	(1,232,906.00)	(1,232,906.00)	(1,232,906.00)	(1,232,906.00)	0.00
		0.00	0.00	0.00	0.00	0.00	1,232,906.00
	Total Cash Back Reserves	64,347,774.97	64,421,973.66	63,571,284.66	42,849,065.66	42,611,399.66	55,590,217.66
	Summary Reserves						
	Accumulated Reserves at Start of Year	55,590,217.66	55,590,217.66	55,590,217.66	55,590,217.66	55,590,217.66	47,978,518.20
	Interest transfer to Reserves	601,673.11	721,945.00	721,945.00	1,237,620.00	1,237,620.00	1,413,166.97
	Transfer from Muni	9,388,790.20	9,877,717.00	9,827,028.00	20,691,111.00	20,640,422.00	18,882,926.94
	Transfer to Muni	(1,232,906.00)	(1,767,906.00)	(2,567,906.00)	(34,669,883.00)	(34,856,860.00)	(12,684,394.45)
	Closing Balance	64,347,774.97	64,421,973.66	63,571,284.66	42,849,065.66	42,611,399.66	55,590,217.66



### 13.2 NAMING OF RESERVE 43008, DUNSBOROUGH, TO QUEDJINMIA RESERVE

STRATEGIC GOAL

3. ENVIRONMENT Valued, conserved and enjoyed

STRATEGIC OBJECTIVE 3.2 Natural areas and habitats are cared for and enhanced for the

enjoyment of current and future generations.

**SUBJECT INDEX** Environmental Management, Land Administration

**BUSINESS UNIT** Environmental Services

REPORTING OFFICER Senior Natural Resource Management / Environment Officer - Will

Oldfield

**AUTHORISING OFFICER** Director, Planning and Development Services - Paul Needham

NATURE OF DECISION Advocacy: to advocate on its own behalf or on behalf of its

community to another level of government/body/agency

**VOTING REQUIREMENT** Simple Majority

ATTACHMENTS Attachment A Map of Reserve 43008, Dunsborough, and it's

Aboriginal values U

### **COUNCIL DECISION AND OFFICER RECOMMENDATION**

C2003/100 Moved Councillor P Carter, seconded Deputy Mayor K Hick

### That the Council:

1. Approve the naming of Reserve 43008 (lot 4979) as Quedjinmia Reserve meaning "white bone home"; and

2. Submit a formal request to Landgate requesting the naming of Reserve 43008 (lot 4979) as Quedjinmia Reserve.

**CARRIED 9/0** 

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### **EXECUTIVE SUMMARY**

This report seeks the Council's endorsement to name Reserve 43008 (Lot 4979) Quedjinmia Reserve (informally known as Windlemere Reserve), which is a Wandandi name meaning "place of the white bones". The naming is in accord with Council Policy – Naming of City Roads and Assets.

### **BACKGROUND**

Reserve 43008 consists of mainly natural vegetation and is also where the Naturaliste Community Centre is located. The reserve has very high conservation and Aboriginal cultural values.

Most of the reserve vegetation consists of the Banksia Dominated Woodlands of the Swan Coastal Plain which is categorised as Threatened Ecological Community. The reserve vegetation forms habitat for a high number of Critically Endangered Western Ringtail Possum (WRP). Both of these matters are protected under the *Commonwealth Environmental Protection and Biodiversity Conservation Act* 1999.

The Aboriginal values summarised in the Management Plan for Reserve 43008 are as follows:

Reserve 43008 in its entirety is now considered by the Nyungar community as a highly significant Aboriginal cultural heritage site that has a matrix of prehistoric and historic Nyungar cultural values.

Management of this area must therefore consider these values in terms of legislative requirements under the Aboriginal Heritage Act but more importantly in maintaining positive and respectful relations with Nyungar community by continuing to involve them in all management decisions made.

There are four Department of Aboriginal Affairs (DAA) Registered Aboriginal sites and three other Aboriginal Heritage places that have DAA extents that overlay Reserve 43008 (Brad Goode & Associates, 2015).

These are listed in Table 1 and shown in Map 2. Full details are available in the report prepared by Brad Goode & Associates (2015) prepared as part of the consultation for this management plan.

ID	Name	Status	Access	Restriction	Site Type
Register	ed Aboriginal Sites				
1061	Dunsborough 2: Caves Rd	Registered	Open	No	Artefacts/ Scatter
20004	Dunsborough Playing Fields	Registered	Open	No	Artefacts/ Scatter
20764	Caves Rd Campsite	Registered	Closed	Restricted	Re-burials, Camps
27231	Dunsborough New Playing Fields	Registered	Open	No	Artefacts/ Scatter
Other H	eritage Places				
1008	Dunsborough: Windlemere Dr	Awaiting Assessment	Open	No	Artefacts/ Scatter
18902	NCCRF Isolated Artefact	Awaiting Assessment	Open	No	Artefacts/ Scatter
20763	Koopins Grave	Awaiting Assessment	Open	No	Skeletal Material/ Burial

### **OFFICER COMMENT**

Reserve 43008 currently has not been officially named. It is locally dubbed 'Windlemere Reserve' because of its proximity to the Windlemere residential estate, but this name only serves to locate the reserve. There is no significant reason why the reserve should be named Windlemere Reserve.

Because of the very significant Aboriginal cultural values of the reserve, the Friends of Windlemere Reserve group proposed that the reserve be given an Aboriginal name.

### **Statutory Environment**

The officer recommendation supports the general function of a local government under the *Local Government Act 1995* to provide for the good government of persons in its district.

The Land Administration Act 1997 provides that the Minister for Lands (the Minister) has the authority for officially naming and un-naming all local parks and recreational reserves in Western Australia. Through delegated authority, Landgate acts on the Minister's behalf to undertake the administrative responsibilities, including the development of policies and procedures required for the formal approval of local parks and recreational reserve names. A formal request to Landgate will need to be submitted following any decision by Council to name the reserve Quedjinmia Reserve.

### **Relevant Plans and Policies**

The officer recommendation aligns to the following adopted policy:

### Naming of City Roads and Assets

Naming considerations

5.1 Council may consider naming a City Asset in honour of persons considered to be pioneers, persons who have made an outstanding humanitarian contribution or who, in the opinion of the Council, are worthy of such an honour. This may also be in acknowledgment of events of historical, environmental or cultural significance or collective community action.

The reserve has very high Aboriginal cultural significance for Nyungar people due to the richness of Aboriginal artefact deposits, the known burial/re-burial sites and the use of the area by Wadandi family groups in the spring of each year when food resources were abundant enough for Aborigines to conduct large ceremonial gatherings. Reserve 43008 was also a historic camp ground occupied by the Lowe and Sambo families through the spring in the 1930s and 1940s.

5.7. The use of Aboriginal names and words for naming features are a way of recognising the different enduring cultural and language groups. Names originating from an Australian Aboriginal language local to the area must be written in a standard recognised format and their use shall be endorsed by the recognised local community. Evidence of this endorsement must be included with the naming proposal.

The Reserve is a significant local Aboriginal site, previously used by the Wadandi people for camping and contains many grave sites. Friends of Windlemere Reserve, who have developed an appreciation for the natural and cultural values of the reserve felt it would be more appropriate that the Reserve be given an Aboriginal name. Through City of Busselton, the Undalup Association was requested to recommend an appropriate Aboriginal name for the reserve. 'Quedjinup', meaning "place of bone", was first offered, however this name is already used to describe a locality, which the reserve is not located within.

Wadandi Elder Wayne Webb provided two more names, which follow the song lines of "white bone":

- 'Quedjinmia' meaning "white bone home", and
- 'Quedjimianup' meaning "place of white bones".

Quedjinmia was chosen due to the increased difference with the name 'Quedjinup' and the simpler pronunciation.

### **Financial Implications**

There are no financial implications associated with the officer recommendation.

### **Stakeholder Consultation**

Wayne Webb, Elder and Cultural Custodian for the Wadandi people, was approached to find a suitable name for the reserve. An explanation of how the name came about is in the 'Relevant Plans and Policies' section above.

To ensure the chosen name was acceptable to the broader Aboriginal community, the name was put to the South West Boojarah working group of the South West Land and Sea Council in June 2019 and they have endorsed the name 'Quedjinmia'.

The proposal to name Reserve 43008 'Quedjinmia' was advertised in the 'Council for Community' page for a three-week period with submissions closing on 23 October 2019. There were no submissions received by the City.

### **Risk Assessment**

An assessment of the potential implications of implementing the officer recommendation has been undertaken using the City's risk management framework, with risks assessed taking into account any controls already in place. No such risks have been identified.

### **Options**

As an alternative to the proposed recommendation, the Council could suggest an alternative name for the reserve. However, the City currently is not aware of any alternative proposals to name the reserve. Reserve 43008 has very significant Aboriginal values and, as per Council Policy 'Naming of City Roads and Assets' clause 5.7, it is appropriate to give this reserve an Aboriginal name that has been chosen by local Wadandi Elder and Cultural Custodian, Wayne Webb.

### **CONCLUSION**

It is recommended that the proposal to name Dunsborough Reserve 43008 (Lot 4979) as 'Quedjinmia' reserve, an Aboriginal name meaning "white bone home", be approved and submitted to Landgate for finalising the name of the reserve.

### TIMELINE FOR IMPLEMENTATION OF OFFICER RECOMMENDATION

Should Council approve the naming of reserve 43008 to Quedjinmia Reserve, officers will forward the recommendation to Landgate to process the request for naming of the reserve as per the State *Land Administration Act* procedures.

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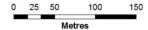
Map 2	Aboriginal Heritage			
Site Reserve 43008				
Project	Environmental Management Plan			
Client	City of Busselton			
Scale	1: 2,500			

# Legend



**Burial Sites** 





Prepared by Gary McMahon Ecosystem Solutions July 2015 Projection - MGA50 Datum - GDA94 The details on this map have not been surveyed. This map is for planning/discussion purposes only.



### 17. CHIEF EXECUTIVE OFFICERS REPORT

### 17.1 COUNCILLORS' INFORMATION BULLETIN

**STRATEGIC GOAL** 6. LEADERSHIP Visionary, collaborative, accountable

**STRATEGIC OBJECTIVE** 6.1 Governance systems, process and practices are responsible,

ethical and transparent.

**SUBJECT INDEX** Councillors' Information Bulletin

**BUSINESS UNIT** Executive Services

**REPORTING OFFICER** Reporting Officers - Various

**AUTHORISING OFFICER** Chief Executive Officer - Mike Archer

**NATURE OF DECISION** Noting: the item does not require a decision of Council and is simply

for information purposes and noting

**VOTING REQUIREMENT** Simple Majority

ATTACHMENTS Nil

### **COUNCIL DECISION AND OFFICER RECOMMENDATION**

C2003/101 Moved Councillor P Carter, seconded Deputy Mayor K Hick

That the items from the Councillors' Information Bulletin be noted:

### 17.1.1 Current Active Tenders

### 17.1.2 Donations, Contributions and Subsidies Fund – February 2020

**CARRIED 9/0** 

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### **EXECUTIVE SUMMARY**

This report provides an overview of a range of information that is considered appropriate to be formally presented to the Council for its receipt and noting. The information is provided in order to ensure that each Councillor, and the Council, is being kept fully informed, while also acknowledging that these are matters that will also be of interest to the community.

Any matter that is raised in this report as a result of incoming correspondence is to be dealt with as normal business correspondence, but is presented in this bulletin for the information of the Council and the community.

### **INFORMATION BULLETIN**

### 17.1.1 Current Active Tenders

Note: Information in *italics* has previously been provided to Council, and is provided for completeness.

## RFT14/19 DESIGN AND TECHINICAL SERVICES – BUSSELTON ENTERTAINMENT ARTS AND CULTURAL HUB

- Requirement to provide design and technical services for the Busselton Entertainment Arts and Creative Hub.
- Following the Expression of Interest (EOI01/19) process for making a preliminary selection among prospective tenderers, the City of Busselton invited tenders from Box Architects, Kerry Hill Architects, Peter Hunt Architects, Willow and With Architecture.

- The Request for Tender closed on 29 November 2019.
- The value of the contract is expected to exceed the CEO's delegated authority under Delegation DA 1-07 (previous delegation reference LG3J) and will require Council approval.
- At the Council meeting on 29 January 2020 Council accepted the tender from Kerry Hill Architects Pty Ltd as the most advantageous tenderer (Successful Tenderer), subject to minor variations to be negotiated in accordance with Regulation 20 of the Local Government (Functions and General) Regulations 1996 (FG Regs) (C2001/016). Council delegated power and authority to the CEO to:
  - negotiate and agree with the Successful Tenderer minor variations in accordance with Regulations 20 of the FG Regs subject to such variations and the final terms not exceeding a lump sum contract price of \$1,979,440;
  - subject to the above, enter into contracts with the Successful Tenderer for supply of the relevant goods and services.
- Council endorsed the removal of Stage 2 from the overall project scope of works to allow further investigation into the viability of other potential sites for the establishment of a creative industries hub component in proximity to the cultural precinct. Council also endorsed the project to progress through to detailed design and contract documentation noting the next hold point will be the recommendation for award of the project builder.
- Contract negotiations are ongoing and contract documents currently being finalised. It is expected that the contract will be entered into by the end March 2020.

### RFT21/19 SUPPLY OF CLEANING CHEMICALS AND PAPER CONSUMABLES

- Requirement the supply of cleaning chemicals and paper consumables to City of Busselton owned and managed facilities.
- A Request for Tender was advertised on 26 October 2019 with a closing date of 21 November 2019.
- Five submissions were received.
- The value of the contract is not expected to exceed the CEO's current delegated authority under Delegation DA 1-07.
- Contract negotiations are ongoing and contract documents currently being finalised. It is
  expected that the contract will be entered into by the end March 2020.

### RFT26/19 HOTEL SITE 1 PRECINCT CIVIL & LANDSCAPING WORKS

- Requirement civil and landscaping works to Busselton Foreshore Hotel Site 1.
- A Request for Tender was advertised on 30 November 2019 with a closing date of 14 January 2020.
- Five submissions were received.
- The value of the contract is expected to exceed the CEO's current delegated authority under Delegation DA 1-07 and will require Council approval.
- At the Council meeting on 12 February 2020 Council accepted the tender from Industrial Roadpavers (WA) Pty Ltd as the most advantageous tenderer (Successful Tenderer), subject to minor variations to be negotiated in accordance with Regulation 20 of the Local Government (Functions and General) Regulations 1996 (FG Regs) (C2002/046). Council delegated power and authority to the CEO to:
  - Negotiate and agree with the Successful Tenderer minor variations in accordance with Regulation 20 of the FG Regs, subject to such variations and the final terms not exceeding the overall project budget; and
  - Endorse the requested budget amendment (resulting in no change to the budgeted net current position).
- A contract was awarded by the CEO under delegated authority to Industrial Roadpavers (WA)
   Pty Ltd in March 2020.

## PQS01/20 SUPPLY AND LAYING OF EXTRUDED KERBING – REQUEST FOR APPLICATIONS TO JOIN A PANEL OF PRE-QUALIFIED SUPPLIERS

- Requirement supply of laying of extruded kerbing.
- In accordance with delegation DA 1-10 the CEO has authority to establish the panel and to accept applications to join the panel.
- The PQS was advertised on 4 January 2020 with a closing date of 28 January 2020.
- Four submissions were received.
- A panel of pre-qualified suppliers was established by the CEO in March 2020 and two prequalified suppliers were appointed to the panel, namely, Proline Kerbing Pty Ltd ATF Proline Kerbing Unit Trust T/A Proline Kerbing and Warburton Holdings Pty Ltd ATF Warburton Family Trust T/A Action Kerbing.

## PQS02/20 SUPPLY AND MAINTENANCE OF PRINTERS AND SCANNERS – REQUEST FOR APPLICATIONS TO JOIN A PANEL OF PRE-QUALIFIED SUPPLIERS

- Requirement supply and maintenance of printers and scanners.
- In accordance with delegation DA 1-10 the CEO has authority to establish the panel and to accept applications to join the panel.
- The PQS was advertised on 1 February 2020 with a closing date of 20 February 2020.
- Four applications were received.
- The Evaluation Panel is currently evaluating applications and it is expected that a panel will be established by the CEO under delegation in March/April 2020.

### RFT01/20 KING STREET COASTAL PARKLAND AND ABLUTIONS - DESIGN AND CONSTRUCT

- Requirement demolition of the existing ablution block and construction of a new King Street coastal parkland ablution block.
- The value of the contract is not expected to exceed the CEO's current delegated authority under Delegation DA 1-07
- A Request for Tender was advertised on 1 February 2020 with a closing date of 18 February 2020.
- One submission was received.
- A contract was awarded by the CEO under delegated authority to Landmark Products Pty Ltd in March 2020.

### RFT02/20 BUSSELTON LIBRARY UPGRADE

- Requirement upgrade of the Busselton Library.
- A Request for Tender was advertised on 29 February 2020 with a closing date of 24 March 2020.
- The value of the contract is expected to exceed the CEO's current delegated authority under Delegation DA 1-07 and will require Council approval.

## PQS03/20 SUPPLY OF CONSTRUCTION SERVICES - REQUEST FOR APPLICATIONS TO JOIN A PANEL OF PRE-QUALIFIED SUPPLIERS

- Requirement construction works.
- The City's intent is to establish 3 categories or sub-panels for supply of building/construction works with a value of up to \$1,250,000. These categories or sub-panels are:
  - o Sub-Panel A: Contract value \$1 \$250,000;
  - Sub-Panel B: Contract Value \$251,000 \$750,000;
  - Sub-Panel C: Contract value \$750,001 \$1,250,000;
  - o (Sub-Panels).
- Only Pre-Qualified Suppliers appointed to a Sub-Panel will be invited to quote for building/construction work within that Sub-Panel range. In other words, if five Pre-Qualified Suppliers are accepted onto Sub-Panel A, the City intends to invite quotations for a specific building/construction project within that category (i.e. contract value \$1 - \$250,000) from only those five Pre-Qualified Suppliers.
- Applicants may apply to be accepted onto any one or more of the Sub-panels.
- The PQS was advertised on 26 February 2020 with a closing date of 12 March 2020.
- Ten submissions were received.
- In accordance with delegation DA 1-10 the CEO has authority to establish the panel and to accept applications to join the panel.
- The Evaluation Panel is currently evaluating applications and it is expected that a panel will be established by the CEO under delegation in March/April 2020.

### 17.1.2 Donations, Contributions and Subsidies Fund – February 2020

The Council allocates an annual budget allowance to the Donations, Contributions and Subsidies (Sponsorship Fund). This is provided such that eligible groups and individuals can apply for and receive sponsorship to assist them in pursuit of endeavors that bring direct benefit to the broader community. Allocation of funds is delegated to the Chief Executive Officer, in accordance with published guidelines and funding availability. Seven applications were supported in February 2020 totaling \$3,458 as outlined in the table below:

Recipient	Purpose	Amount		
Busselton Old Time Dance	on Old Time Dance Funding to assist with the cost of venue hire and decorations for the SW Dance Festival being held in April			
Intercultural Action Group Inc.	Funds to cover the cost of cultural performers at the inaugural Harmony Week celebration being held at ArtGeo on 15 March 2020	\$800		
SW Branch Rover Owners Club of WA	Organising the annual Auto British Classic held at Signal Park on 4 April 2020. Funds to assist with promoting the event and signage for the free community event	\$400		
Bryce Commins	Selected to represent WA at the MTB Australia Championships in the U19 team held in Bright, Victoria. Funds to assist with travel related expenses.	\$300		

	camp and graduation celebrations. Funds raised will be donated to the school to lower the cost of these events, making them affordable for all families.	
Busselton Primary School Fundraising Committee	Funding requested to purchase various passes from the GLC as raffle prizes. The fundraising committee's goal is to ensure every one of their year 6 students be included in their school	\$300
Tuart House Communicare	Donation requested to assist with the purchase of fitness and childcare passes at the Geographe Leisure Centre in support of victims of family violence, which will assist them to interact positively with the wider community.	\$500
Busselton Dunsborough Junior Dungbeetles Rugby Club	Five players from the club have been selected to represent WA as part of the U12 Beasts National Carnival being held in New South Wales. With only 20 players selected from across the state, it is an outstanding achievement to have 5 players representing our district. Funds to assist with travel related expenses.	\$1,000

### **ITEMS FOR DEBATE**

### 13. PLANNING AND DEVELOPMENT SERVICES REPORT

13.1 APPLICATION FOR DEVELOPMENT APPROVAL (DA18/0674) - PROPOSED EXTRACTIVE (SAND AND GRAVEL) - LOT 101 (285) GIBB ROAD - SECOND REPORT FOLLOWING DEFERRAL OF DETERMINATION BY COUNCIL

**STRATEGIC GOAL** 6. LEADERSHIP Visionary, collaborative, accountable

**STRATEGIC OBJECTIVE** 6.1 Governance systems, process and practices are responsible,

ethical and transparent.

SUBJECT INDEX Development/Planning Applications

BUSINESS UNIT Statutory Planning

**REPORTING OFFICER** Senior Development Planner – Policy - Stephanie Navarro **AUTHORISING OFFICER** Director, Planning and Development Services - Paul Needham

NATURE OF DECISION Quasi-Judicial: to determine an application/matter that directly

affects a person's right and interests e.g. development applications, applications for other permits/licences, leases and other decisions

that may be appealable to the State Admin Tribunal.

VOTING REQUIREMENT

Simple Majority

ATTACHMENTS

Attachment A Location Plan Lachment B Site Plan Lachment B

Attachment F Proposed Plans/Documents To Be Approved U

Attachment G Traffic Count Data U

Attachment H Traffic Consultant (Riley Consulting) Advice U

	DISCLOSURE OF INTEREST						
Date	25 March 2020						
Meeting	Ordinary Council						
Name/Position	Paul Carter, Councillor						
Item No./Subject	13.1, APPLICATION FOR DEVELOPMENT APPROVAL (DA18/0674) -						
	PROPOSED EXTRACTIVE (SAND AND GRAVEL) - LOT 101 (285) GIBB ROAD						
Type of Interest	Impartiality Interest						
Nature of Interest	I have had recent business dealings with a petitioner in relation to Item						
	13.1 and as a consequence there may be a perception that my impartiality						
	on the matter may be affected.						

Alternative motions were foreshadowed prior to the meeting. In accordance with the City's *Standing Orders Local Law 2018*, they were moved prior to the Officer Recommendation which was:

### **OFFICER RECOMMENDATION**

### That the Council determines:

- A. That application DA18/0674 submitted for development of Industry Extractive (Sand and Gravel) at Lot 101 (285) Gibb Road, Kaloorup, is considered by the Council to be generally consistent with Local Planning Scheme No. 21 and the objectives of the zone within which it is located.
- B. That Development Approval is granted for the proposal referred to in (A) above subject to the following conditions:-

### **GENERAL CONDITIONS**

- The development hereby approved is permitted to operate for five years from the date of this Decision Notice or until 141,375 tonnes of material has been extracted, whichever is earlier. The site must be fully rehabilitated in accordance with the approved Closure Plan before the expiry date of this development approval.
- 2. The owner must ensure that the development hereby approved is undertaken in accordance with the approved plans, which are as follows, and any plans approved pursuant to other conditions of approval:
  - 2.1 'Excavation Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup' (dated 30 November 2019), specifically:
    - (i) Figure 3 Concept Final Contours;
    - (ii) Part 7.0 Noise Management;
    - (iii) Part 11.0 Closure Plan;
    - (iv) Figure 3 Sand Resource Proposed Staging; and
    - (v) Figure 7 Depth to the perched water table and soil test holes.
  - 2.2 'Amended Traffic Route and Management Plan' (dated 13 September 2019).

### PRIOR TO COMMENCEMENT OF ANY DEVELOPMENT CONDITIONS:

- 3. The owner must ensure that no material is extracted from the site or any other works undertaken until the following plans/details have been submitted to, and approved by, the City:
  - 3.1 A Tree Protection Plan outlining temporary demarcation barriers to be erected 15 metres from the crown drip zone of trees to protect the tree and root system from accidental machinery damage.
  - 3.2 A revised Dust Management Plan, including additional details validating the water supply available for dust suppression.
  - 3.3 A revised Dieback Management Plan prepared by a dieback management consultant accredited with Department of Biodiversity, Conservation and Attractions, including additional details of monitoring and compliance over the life of the development.
  - 3.4 A revised Water Management Plan, including additional details regarding stormwater retention measures to prevent the flow of stormwater into the tributaries of the Carbunup River.
  - 3.5 Plans for the widening of Gibb Road to a minimum unsealed carriageway width of 7.0 metres from the crossover to the subject site north to the sealed section of Gibb Road (such plans shall specify the width, alignment, gradient and type of construction proposed for the upgrades, including all relevant horizontal cross-sections and longitudinal-sections showing existing and proposed levels, together with details of culverts and where necessary how such culverts will be upgraded).
  - 3.6 Details of upgrades to the crossover to ensure that adequate sightlines are achieved.
  - 3.7 Details of warning signage to be erected along the transport route. Signage shall include signs on both approaches to the pit along Gibb Road 100 metres from the crossover.

- 3.8 A 3D Digital Terrain Model indicating the following in Australian Height Datum:
  - (i) Existing ground levels;
  - (ii) Maximum extraction depths; and
  - (iii) Minimum final ground levels after rehabilitation.
- 3.9 The following bonds being provided to the City:
  - (i) A road maintenance bond of \$20,000 (being an unconditional bank guarantee) to ensure that the surrounding road network is maintained to the satisfaction of the City for the term of the approval. Those portions of public roads affected by the activities related to the approval shall be maintained to a standard acceptable to the City. The City may use the bond to maintain the affected public roads as it deems necessary.
  - (ii) A dust bond to the value of \$5,000 (being an unconditional bank guarantee), which shall be held against satisfactory compliance with the Dust Management Plan.
  - (iii) A rehabilitation bond to the value of \$20,000 (being an unconditional bank guarantee), which shall be held against satisfactory compliance with the Closure Plan.
  - (iv) Further to Conditions 3.9(i) 3(iii), the bonds are to be accompanied by an executed legal agreement with the City (with the costs of preparation of that agreement not being borne by the City). The legal agreement shall provide for:
    - (a) The ability for the City to be able to use the bonds, or parts of the bonds as appropriate, and any costs to the City including administrative costs of completing or rectifying any outstanding works in accordance with the conditions of this development approval and any further costs;
    - (b) Written authorisation from the owner of the land that the City may enter the site at any time and permit the City to complete or rectify any outstanding work to the satisfaction of the City;
    - (c) If at any time any part of the bond is called upon, used or applied by the City in accordance with the legal agreement, the restoration of the bond to the full amount required by these conditions; and
    - (d) The ability to lodge a caveat over the site to secure the City's interest.

### PRIOR TO COMMENCEMENT OF EXTRACTION CONDITIONS:

4. The owner must ensure that no material is extracted until information setting out that and how the plans and details required by Conditions 2 and 3 have been implemented has been provided to the satisfaction of the City, and the City has subsequently issued a 'Permit to Commence', confirming that extraction can commence.

### PRIOR TO COMMENCEMENT OF EXTRACTION, OTHER THAN EXTRACTION FOR UPGRADES TO GIBB ROAD:

- 5. Notwithstanding Condition 4 above, gravel can be extracted from and crushed on the site for the purpose of upgrading Gibb Road and/or the crossover, in the following circumstances:
  - 5.1 Where all plans, details and bonds required by Condition 3 have been provided to and approved by the City, and implemented to the satisfaction of the City; and
  - 5.2 With the prior written approval of the City.

### **ONGOING CONDITIONS:**

- 6. The owner must ensure that the plans, details and works undertaken to satisfy Conditions 1, 2, 3 and 4 are subsequently implemented and maintained for the life of the development and, in addition, the following conditions must be complied with:
  - 6.1 The development hereby approved shall be limited to: the excavation or movement of sand and gravel from its natural state on the site; screening of sand; crushing of gravel; transportation of sand and gravel within or off the site; associated drainage works and access ways; and rehabilitation works. At no time shall any blasting works be carried out.
  - 6.2 Notwithstanding Condition 6.1, Cells 1 and 2 are limited to the extraction of sand only, and no crushing can be undertaken within Cells 1, 2, 3 or 4, or outside the approved extraction area. Cells are as indicated on the approved plans (Figure 3 Sand Resource Proposed Staging).
  - 6.3 Working hours, including transportation of materials, shall be restricted to the hours between: 7.00am and 6.00pm Mondays to Fridays; and 7.00am and 1.00pm Saturdays for rehabilitation works only; and at no time on Sundays or public holidays.
  - 6.4 Trucks going to and from the Approved Development are not to operate on Monday to Friday between the hours of 7.30am and 8.50am and between 3.15pm and 4.30pm on any given school day or between other times as agreed in writing between the applicant and the City.
  - 6.5 The designated haulage route to Bussell Highway will be northwards along Gibb Road to North Jindong Road and then west along Roy Road. No other routes may be used, until trucks have reached Bussell Highway.
  - 6.6 A maximum number of 20 truck movements (i.e. 10 trucks entering and 10 trucks exiting the site) shall be permitted on any operating day. No truck movements shall be permitted on any other day.
  - 6.7 Notwithstanding Conditions 6.5 and 6.6 above, should more than 20 truck movements per day and/or an alternative haulage route be proposed, a Traffic Management Plan is to be submitted to and approved in writing by the City; with the Plan being submitted to the City at least 7 working days prior to any haulage not consistent with Conditions 6.5 or 6.6 occurring.

Note: The City will not approve additional truck movements and/or an alternative haulage route for more than 20 working days in any calendar year. Any additional days will require a Modification to Development Approval to be submitted to, and approved by, the City.

- 6.8 No more than 2 hectares shall be worked at any one time; this area shall then be rehabilitated in accordance with the approved details pursuant to Condition 2.1(iii) concurrently with the extraction of the following 2 hectare area.
- 6.9 No excavation can occur closer than 300mm to the maximum winter perched water table generally as indicated in 'Figure 7 Depth to the perched water table and soil test holes' or at a depth greater than that indicated in the 3D Model Terrain Diagram as the maximum extraction depth (condition 3.8 refers) whichever is greater. No dewatering works are to be undertaken.
- 6.10 The final land surface (after rehabilitation for pasture) must be a minimum of 500mm above the maximum winter perched water table, generally as indicated in 'Figure 3 Concept Final Contours', and at a height no less than that indicated in the 3D Model Terrain Diagram as the minimum final ground level (condition 3.8 refers) whichever is greater.
- 6.11 The owner must ensure submission to the City annually within three months of every anniversary of the issue of the Permit to Commence certificate a written report detailing the following to the satisfaction of the City:
  - (a) A survey conducted by a licensed surveyor certifying:
    - (i) The extent/size and location of the area which has been extracted;
    - (ii) The extent/size and location of the area which has been rehabilitated;
    - (iii) The extent/size and location of the area which is currently under operation;
  - (b) Details confirming that the conditions of this approval have been complied with and how the conditions have been complied with; and
  - (c) No extraction operations, including stockpiling or transportation of extracted material, is to be undertaken on the site at any time when an annual written report is due and has not been submitted to the City.
- 6.12 No development (including any extraction) may be carried out at any time when any bond that is required to be in force and effect under Condition 3.9 is not in full force and effect.
- C. The City approach Main Roads following the upgrades to Gibb Road to apply and post a speed limit to the unsealed portion of Gibb Road.

Cr Carter moved his amended recommendation, with amendments shown in red text as follows:

### AMENDED RECOMMENDATION

### That the Council determines:

- A. That application DA18/0674 submitted for development of Industry Extractive (Sand and Gravel) at Lot 101 (285) Gibb Road, Kaloorup, is considered by the Council to be generally consistent with Local Planning Scheme No. 21 and the objectives of the zone within which it is located.
- B. That Development Approval is granted for the proposal referred to in (A) above subject to the following conditions:-

### **GENERAL CONDITIONS**

- The development hereby approved is permitted to operate for five years from the date of this Decision Notice or until 141,375 tonnes of material has been extracted, whichever is earlier. The site must be fully rehabilitated in accordance with the approved Closure Plan before the expiry date of this development approval.
- 2. The owner must ensure that the development hereby approved is undertaken in accordance with the approved plans, which are as follows, and any plans approved pursuant to other conditions of approval:
  - 2.1 'Excavation Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup' (dated 30 November 2019), specifically:
    - (i) Figure 3 Concept Final Contours;
    - (ii) Part 7.0 Noise Management;
    - (iii) Part 11.0 Closure Plan;
    - (iv) Figure 3 Sand Resource Proposed Staging; and
    - (v) Figure 7 Depth to the perched water table and soil test holes.
  - 2.2 'Amended Traffic Route and Management Plan' (dated 13 September 2019).

### PRIOR TO COMMENCEMENT OF ANY DEVELOPMENT CONDITIONS:

- 3. The owner must ensure that no material is extracted from the site or any other works undertaken until the following plans/details have been submitted to, and approved by, the City:
  - 3.1 A Tree Protection Plan outlining temporary demarcation barriers to be erected 15 metres from the crown drip zone of trees to protect the tree and root system from accidental machinery damage.
  - 3.2 A revised Dust Management Plan, including additional details validating the water supply available for dust suppression.
  - 3.3 A revised Dieback Management Plan prepared by a dieback management consultant accredited with Department of Biodiversity, Conservation and Attractions, including additional details of monitoring and compliance over the life of the development.
  - 3.4 A revised Water Management Plan, including:
    - (i) additional details validating the water supply available for screening and washing of sand and gravel; and

- (ii) additional details regarding stormwater retention measures to prevent the flow of stormwater into the tributaries of the Carbunup River.
- 3.5 Plans for the widening of Gibb Road to a minimum unsealed carriageway width of 7.0 metres from the crossover to the subject site north to the sealed section of Gibb Road (such plans shall specify the width, alignment, gradient and type of construction proposed for the upgrades, including all relevant horizontal cross-sections and longitudinal-sections showing existing and proposed levels, together with details of culverts and where necessary how such culverts will be upgraded).
- 3.6 Details of upgrades to the crossover to ensure that adequate sightlines are achieved.
- 3.7 Details of warning signage to be erected along the transport route. Signage shall include signs on both approaches to the pit along Gibb Road 100 metres from the crossover.
- 3.8 A 3D Digital Terrain Model prepared by a licensed surveyor for the whole of Lot 101, Gibb Road, Kaloorup indicating the following in Australian Height Datum:
  - (i) Existing ground levels;
  - (ii) Maximum extraction depths; and
  - (iii) Minimum final ground levels after rehabilitation.
- 3.9 The following bonds being provided to the City:
  - (i) A road maintenance bond of \$20,000 (being an unconditional bank guarantee) to ensure that the surrounding road network is maintained to the satisfaction of the City for the term of the approval. Those portions of public roads affected by the activities related to the approval shall be maintained to a standard acceptable to the City. The City may use the bond to maintain the affected public roads as it deems necessary.
  - (ii) A dust bond to the value of \$5,000 (being an unconditional bank guarantee), which shall be held against satisfactory compliance with the Dust Management Plan.
  - (iii) A rehabilitation bond to the value of \$20,000 (being an unconditional bank guarantee), which shall be held against satisfactory compliance with the Closure Plan.
  - (iv) {Further to Conditions 3.9(i) 3.9(iii)} an executed legal agreement with the City (with the costs of preparation of that agreement not being borne by the City owner or nominee). The legal agreement shall provide for:
    - (a) The ability for the City to be able to use the bonds, or parts of the bonds as appropriate, and any costs to the City including administrative costs of completing or rectifying any outstanding works in accordance with the conditions of this development approval and any further costs;
    - (b) Written authorisation from the owner of the land that the City may enter the site at any time and permit the City to complete or rectify any outstanding work to the satisfaction of the City;

- (c) If at any time any part of the bond is called upon, used or applied by the City in accordance with the legal agreement, the restoration of the bond to the full amount required by these conditions; and
- (d) The ability to lodge a caveat over the site to secure the City's interest.

### PRIOR TO COMMENCEMENT OF EXTRACTION CONDITIONS:

4. The owner must ensure that no material is extracted until information setting out that and how the plans, and details, bonds and agreements required by Conditions 2 and 3 have been implemented or provided to the satisfaction of the City, and the City has subsequently issued a written 'Permit to Commence', confirming that extraction can commence.

PRIOR TO COMMENCEMENT OF EXTRACTION, OTHER THAN EXTRACTION FOR UPGRADES TO GIBB ROAD:

- 5. Notwithstanding Condition 4 above, gravel can be extracted from and crushed on the site for the purpose of upgrading Gibb Road and/or the crossover, in the following circumstances:
  - 5.1 Where all plans, details, and bonds and agreements required by Condition 3 have been provided to and approved by the City, and implemented to the satisfaction of the City; and
  - 5.2 With the prior written approval of the City.

### **ONGOING CONDITIONS:**

- 6. The owner must ensure that the plans, details and works undertaken to satisfy Conditions 1, 2, 3 and 4 are subsequently implemented and maintained for the life of the development and, in addition, the following conditions must be complied with:
  - 6.1 The development hereby approved shall be limited to: the excavation or movement of sand and gravel from its natural state on the site; screening of sand; crushing of gravel; transportation of sand and gravel within or off the site; associated drainage works and access ways; and rehabilitation works. At no time shall any blasting works be carried out.
  - 6.2 Notwithstanding Condition 6.1, Cells 1 and 2 are limited to the extraction of sand only, and no crushing can be undertaken within Cells 1, 2, 3 or 4, or outside the approved extraction area. Cells are as indicated on the approved plans (Figure 3 Sand Resource Proposed Staging).
  - 6.3 Working Operating hours, including in respect of any use of any vehicle or machinery or the transportation of materials, shall be restricted to the hours between: 7.00am and 6.00pm Mondays to Fridays only; and for rehabilitation works only the additional hours of 7.00am and 1.00pm Saturdays for rehabilitation works only; and no works of any kind to be carried out at any time on Sundays or public holidays.
  - 6.4 Trucks going to and from the Approved Development development hereby approved are not to operate on Monday to Friday between the hours of 7.30am and 8.50am and between 3.15pm and 4.30pm on any given school day or between other times as agreed in writing between the applicant and the City.

- 6.5 The designated haulage route to Bussell Highway will be northwards along Gibb Road to North Jindong Road and then west along Roy Road. No other routes may be used, until trucks have reached Bussell Highway.
- 6.6 A maximum number of 20 truck movements (i.e. 10 trucks entering and 10 trucks exiting the site) shall be permitted on any operating day. No truck movements shall be permitted on any other day.
- 6.7 Notwithstanding Conditions 6.5 and 6.6 above, should more than 20 truck movements per day and/or an alternative haulage route be proposed, a Traffic Management Plan is to first be both submitted to and approved in writing by the City; with the Plan being submitted to the City at least 7 working days prior to any haulage not consistent with Conditions 6.5 or 6.6 occurring.
  - Note: The City will not approve additional truck movements and/or an alternative haulage route for more than 20 working days in any calendar year. Any additional days will require a Modification to Development Approval to be submitted to, and approved by, the City.
- 6.8 No more than 2 hectares shall be worked at any one time; this area shall then be rehabilitated in accordance with the approved details pursuant to Condition 2.1(iii) concurrently with the extraction of the following 2 hectare area.
- 6.9 No excavation can occur closer than 300mm to the maximum winter perched water table generally as indicated in 'Figure 7 Depth to the perched water table and soil test holes' or at a depth greater than that indicated in the 3D Model Terrain Diagram as the maximum extraction depth (condition 3.8 refers) whichever is greater. No dewatering works are to be undertaken.
- 6.10 The final land surface (after rehabilitation for pasture) must be a minimum of 500mm above the maximum winter perched water table, generally as indicated in 'Figure 3 Concept Final Contours', and at a height no less than that indicated in the 3D Model Terrain Diagram as the minimum final ground level (condition 3.8 refers) whichever is greater.
- 6.11 The owner must ensure that, annually and within the month following every anniversary of the issue by the City of the Permit to Commence certificate, a 3D Digital Terrain Model is prepared by a licensed surveyor for the whole of Lot 101, Gibb Road, Kaloorup indicating ground levels at the time of survey in Australian Height Datum.
- 6.12 The owner must ensure that, submission to the City annually and within three months following of every anniversary of the issue by the City of the Permit to Commence certificate, a written report detailing is given to the City that includes the following to the satisfaction of the City:
  - (a) A copy of the 3D Digital Terrain Model prepared in accordance with Condition 6.11 and a statement by a licensed surveyor certifying:
    - (i) The extent/size and location of the area which has been extracted;
    - (ii) The extent/size and location of the area which has been rehabilitated;
    - (iii) The extent/size and location of the area which is currently under operation; and
  - (b) Details confirming that the conditions of this approval have been complied with and how the conditions have been complied with.; and

- (c) No extraction operations, including stockpiling or transportation of extracted material, is to be undertaken on the site at any time when an annual written report is due and has not been submitted to the City.
- 6.13 No extraction operations, including the use of any vehicle or machinery or the stockpiling or transportation of extracted material, is to be undertaken on the site at any time when an annual written report is due under Condition 6.12 and has not been provided to the City.
- 6.14 No development, (including any extraction) the use of any vehicle or machinery or the stockpiling or transportation of extracted material, may be carried out at any time when any bond that is required to be in force and effect under Condition 3.9 (or any agreement made in accordance with Condition 3.9) is not in full force and effect.
- C. The City approach Main Roads following the upgrades to Gibb Road to apply and post a speed limit to the unsealed portion of Gibb Road.

There was objection to Cr Carter's motion and debate ensued.

Cr Riccelli moved the following amendments to Cr Carter's amended recommendation:

- 1. Condition 6.7 be deleted; and
- 2. Conditions 6.11 and 6.12 be amended to read:
  - 6.11 The owner must ensure that, a 3D Digital Terrain Model must be prepared by a licensed surveyor for the whole of Lot 101, Gibb Road, Kaloorup indicating ground levels at the time of survey in Australian Height Datum after six months and before seven months of the issue by the City of the Permit to Commence certificate. Annually thereafter and within the month following every anniversary of the due date of the first report a 3D Digital Terrain Model is to be prepared by a licensed surveyor for the whole of Lot 101, Gibb Road, Kaloorup indicating ground levels at the time of survey in Australian Height Datum.
  - 6.12 The owner must ensure that 12 months after the due date of the report referenced in condition 6.11(c) and annually thereafter a written report is given to the City that includes the following to the satisfaction of the City (such reports must be provided within 3 months of the due date):
    - (a) A copy of the 3D Digital Terrain Model prepared in accordance with Condition 6.11 and a statement by a licensed surveyor certifying:
      - (i) The extent/size and location of the area which has been extracted;
      - (ii) The extent/size and location of the area which has been rehabilitated;
      - (iii) The extent/size and location of the area which is currently under operation;
    - (b) Details confirming that the conditions of this approval have been complied with and how the conditions have been complied with; and
    - (c) In addition, a written report to the specification set out above must also be submitted six months after the issue by the City of the Permit to Commence certificate, and no more than six weeks after the date that is six months after the issue by the City of the Permit to Commence certificate.

Debate resumed on Cr Carter's amended recommendation.

Cr Hick moved the following amendments to Cr Carter's amended recommendation:

### **COUNCIL DECISION**

C2003/102 Moved Deputy Mayor K Hick, seconded Councillor K Cox

- 1) Condition 3.5 to be amended to read "Plans for the widening of Gibb Road to a minimum sealed carriageway width of 6.2 metres from the crossover to the subject site north to the sealed section of Gibb Road (such plans shall specify the width, alignment, gradient and type of construction proposed for the upgrades, including all relevant horizontal cross-sections and longitudinal-sections showing existing and proposed levels, together with details of culverts and where necessary how such culverts will be upgraded)"; and
- 2) Condition C. to be amended to read "The City approach Main Roads following the upgrades to Gibb Road to apply and post a speed limit to Gibb Road."

**LOST 4/5** 

For the motion: Cr Barrett-Lennard, Cr Cox, Cr Riccelli, Cr Hick Against the motion: Cr Henley, Cr Paine, Cr Carter, Cr Cronin, Cr Miles

Debate resumed on Cr Carter's amended recommendation and the motion was put.

### **COUNCIL DECISION AND AMENDED RECOMMENDATION**

**C2003/103** Moved Councillor P Carter, seconded Councillor J Barrett-Lennard

### That the Council determines:

- A. That application DA18/0674 submitted for development of Industry Extractive (Sand and Gravel) at Lot 101 (285) Gibb Road, Kaloorup, is considered by the Council to be generally consistent with Local Planning Scheme No. 21 and the objectives of the zone within which it is located.
- B. That Development Approval is granted for the proposal referred to in (A) above subject to the following conditions:-

### **GENERAL CONDITIONS**

- The development hereby approved is permitted to operate for five years from the date of this Decision Notice or until 141,375 tonnes of material has been extracted, whichever is earlier. The site must be fully rehabilitated in accordance with the approved Closure Plan before the expiry date of this development approval.
- 2. The owner must ensure that the development hereby approved is undertaken in accordance with the approved plans, which are as follows, and any plans approved pursuant to other conditions of approval:
  - 2.1 'Excavation Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup' (dated 30 November 2019), specifically:
    - (i) Figure 3 Concept Final Contours;
    - (ii) Part 7.0 Noise Management;
    - (iii) Part 11.0 Closure Plan;
    - (iv) Figure 3 Sand Resource Proposed Staging; and
    - (v) Figure 7 Depth to the perched water table and soil test holes.

2.2 'Amended Traffic Route and Management Plan' (dated 13 September 2019).

#### PRIOR TO COMMENCEMENT OF ANY DEVELOPMENT CONDITIONS:

- 3. The owner must ensure that no material is extracted from the site or any other works undertaken until the following plans/details have been submitted to, and approved by, the City:
  - 3.1 A Tree Protection Plan outlining temporary demarcation barriers to be erected 15 metres from the crown drip zone of trees to protect the tree and root system from accidental machinery damage.
  - 3.2 A revised Dust Management Plan, including additional details validating the water supply available for dust suppression.
  - 3.3 A revised Dieback Management Plan prepared by a dieback management consultant accredited with Department of Biodiversity, Conservation and Attractions, including additional details of monitoring and compliance over the life of the development.
  - 3.4 A revised Water Management Plan, including:
    - (i) additional details validating the water supply available for screening and washing of sand and gravel; and
    - (ii) additional details regarding stormwater retention measures to prevent the flow of stormwater into the tributaries of the Carbunup River.
  - 3.5 Plans for the widening of Gibb Road to a minimum unsealed carriageway width of 7.0 metres from the crossover to the subject site north to the sealed section of Gibb Road (such plans shall specify the width, alignment, gradient and type of construction proposed for the upgrades, including all relevant horizontal cross-sections and longitudinal-sections showing existing and proposed levels, together with details of culverts and where necessary how such culverts will be upgraded).
  - 3.6 Details of upgrades to the crossover to ensure that adequate sightlines are achieved.
  - 3.7 Details of warning signage to be erected along the transport route. Signage shall include signs on both approaches to the pit along Gibb Road 100 metres from the crossover.
  - 3.8 A 3D Digital Terrain Model prepared by a licensed surveyor for the whole of Lot 101, Gibb Road, Kaloorup indicating the following in Australian Height Datum:
    - (i) Existing ground levels;
    - (ii) Maximum extraction depths; and
    - (iii) Minimum final ground levels after rehabilitation.
  - 3.9 The following being provided to the City:
    - (i) A road maintenance bond of \$20,000 (being an unconditional bank guarantee) to ensure that the surrounding road network is maintained to the satisfaction of the City for the term of the approval. Those portions of public roads affected by the activities related to the approval shall be maintained to a standard acceptable to the City. The City may use the bond to maintain the affected public roads as it deems necessary.

- (ii) A dust bond to the value of \$5,000 (being an unconditional bank guarantee), which shall be held against satisfactory compliance with the Dust Management Plan.
- (iii) A rehabilitation bond to the value of \$20,000 (being an unconditional bank guarantee), which shall be held against satisfactory compliance with the Closure Plan.
- (iv) Further to Conditions 3.9(i) 3.9(iii), an executed legal agreement with the City (with the costs of preparation of that agreement being borne by the owner or nominee). The legal agreement shall provide for:
  - (a) The ability for the City to be able to use the bonds, or parts of the bonds as appropriate, and any costs to the City including administrative costs of completing or rectifying any outstanding works in accordance with the conditions of this development approval and any further costs;
  - (b) Written authorisation from the owner of the land that the City may enter the site at any time and permit the City to complete or rectify any outstanding work to the satisfaction of the City;
  - (c) If at any time any part of the bond is called upon, used or applied by the City in accordance with the legal agreement, the restoration of the bond to the full amount required by these conditions; and
  - (d) The ability to lodge a caveat over the site to secure the City's interest.

### PRIOR TO COMMENCEMENT OF EXTRACTION CONDITIONS:

4. The owner must ensure that no material is extracted until the plans, details, bonds and agreements required by Conditions 2 and 3 have been implemented or provided to the satisfaction of the City, and the City has subsequently issued a written 'Permit to Commence', confirming that extraction can commence.

PRIOR TO COMMENCEMENT OF EXTRACTION, OTHER THAN EXTRACTION FOR UPGRADES TO GIBB ROAD:

- 5. Notwithstanding Condition 4 above, gravel can be extracted from and crushed on the site for the purpose of upgrading Gibb Road and/or the crossover, in the following circumstances:
  - 5.1 Where all plans, details, bonds and agreements required by Condition 3 have been provided to and approved by the City, and implemented to the satisfaction of the City; and
  - 5.2 With the prior written approval of the City.

### **ONGOING CONDITIONS:**

6. The owner must ensure that the plans, details and works undertaken to satisfy Conditions 1, 2, 3 and 4 are subsequently implemented and maintained for the life of the development and, in addition, the following conditions must be complied with:

- 6.1 The development hereby approved shall be limited to: the excavation or movement of sand and gravel from its natural state on the site; screening of sand; crushing of gravel; transportation of sand and gravel within or off the site; associated drainage works and access ways; and rehabilitation works. At no time shall any blasting works be carried out.
- 6.2 Notwithstanding Condition 6.1, Cells 1 and 2 are limited to the extraction of sand only, and no crushing can be undertaken within Cells 1, 2, 3 or 4, or outside the approved extraction area. Cells are as indicated on the approved plans (Figure 3 Sand Resource Proposed Staging).
- 6.3 Operating hours, including in respect of any use of any vehicle or machinery or the transportation of materials, shall be restricted to the hours between: 7.00am and 6.00pm Mondays to Fridays only; and for rehabilitation works only the additional hours of 7.00am and 1.00pm Saturdays; and no works of any kind to be carried out at any time on Sundays or public holidays.
- 6.4 Trucks going to and from the development hereby approved are not to operate on Monday to Friday between the hours of 7.30am and 8.50am and between 3.15pm and 4.30pm on any given school day or between other times as agreed in writing between the applicant and the City.
- 6.5 The designated haulage route to Bussell Highway will be northwards along Gibb Road to North Jindong Road and then west along Roy Road. No other routes may be used, until trucks have reached Bussell Highway.
- 6.6 A maximum number of 20 truck movements (i.e. 10 trucks entering and 10 trucks exiting the site) shall be permitted on any operating day. No truck movements shall be permitted on any other day.
- 6.7 Notwithstanding Conditions 6.5 and 6.6 above, should more than 20 truck movements per day and/or an alternative haulage route be proposed, a Traffic Management Plan is to first be both submitted to and approved in writing by the City; with the Plan being submitted to the City at least 7 working days prior to any haulage not consistent with Conditions 6.5 or 6.6 occurring.
  - Note: The City will not approve additional truck movements and/or an alternative haulage route for more than 20 working days in any calendar year. Any additional days will require a Modification to Development Approval to be submitted to, and approved by, the City.
- 6.8 No more than 2 hectares shall be worked at any one time; this area shall then be rehabilitated in accordance with the approved details pursuant to Condition 2.1(iii) concurrently with the extraction of the following 2 hectare area.
- 6.9 No excavation can occur closer than 300mm to the maximum winter perched water table generally as indicated in 'Figure 7 Depth to the perched water table and soil test holes' or at a depth greater than that indicated in the 3D Model Terrain Diagram as the maximum extraction depth (condition 3.8 refers) whichever is greater. No dewatering works are to be undertaken.
- 6.10 The final land surface (after rehabilitation for pasture) must be a minimum of 500mm above the maximum winter perched water table, generally as indicated in 'Figure 3 Concept Final Contours', and at a height no less than that indicated in the 3D Model Terrain Diagram as the minimum final ground level (condition 3.8 refers) whichever is greater.

- 6.11 The owner must ensure that, annually and within the month following every anniversary of the issue by the City of the Permit to Commence certificate, a 3D Digital Terrain Model is prepared by a licensed surveyor for the whole of Lot 101, Gibb Road, Kaloorup indicating ground levels at the time of survey in Australian Height Datum.
- 6.12 The owner must ensure that, annually and within three months following every anniversary of the issue by the City of the Permit to Commence certificate, a written report is given to the City that includes the following to the satisfaction of the City:
  - (a) A copy of the 3D Digital Terrain Model prepared in accordance with Condition 6.11 and a statement by a licensed surveyor certifying:
    - (i) The extent/size and location of the area which has been extracted;
    - (ii) The extent/size and location of the area which has been rehabilitated;
    - (iii) The extent/size and location of the area which is currently under operation; and
  - (b) Details confirming that the conditions of this approval have been complied with and how the conditions have been complied with.
- 6.13 No extraction operations, including the use of any vehicle or machinery or the stockpiling or transportation of extracted material, is to be undertaken on the site at any time when an annual written report is due under Condition 6.12 and has not been provided to the City.
- 6.14 No development including the use of any vehicle or machinery or the stockpiling or transportation of extracted material, may be carried out at any time when any bond that is required to be in force and effect under Condition 3.9 (or any agreement made in accordance with Condition 3.9) is not in full force and effect.
- C. The City approach Main Roads following the upgrades to Gibb Road to apply and post a speed limit to the unsealed portion of Gibb Road.

CARRIED 6/3

For the motion: Cr Henley, Cr Carter, Cr Paine, Cr Cronin, Cr Barrett-Lennard, Cr Miles Against the motion: Cr Riccelli, Cr Cox, Cr Hick

Reasons:

To require a 3D Digital Terrain in Condition 6.11, which requires the annual report to be provided. This would be useful in supporting the Surveyors report and ensuring that the City is able to confirm annual extraction quantities are accurate and they are reflective of the Licenced Surveyors comments.

Officers made additional refinements to conditions, rationale for those additional changes is as follows-

- 1. Condition 3.4 add condition to validate water for material screening
- 2. Conditions 3.8 and 6.11 survey to be carried out by appropriately qualified person
- 3. Conditions 4 and 5 for clarity and specific reference to bonds
- 4. Conditions 6.3, 6.13 and 6.14 for clarity around controlled activities
- 5. Conditions 3.9, 6.3, 6.4 and 6.7 minor changes for clarity

### **EXECUTIVE SUMMARY**

The City has received a development application for an 'Industry – Extractive' to extract 200,000 tonnes of sand and gravel over an area of 20.94 hectares at Lot 101 (285) Gibb Road, Kaloorup. Due to the nature of the issues requiring consideration and the level of community interest, the application is being presented to Council for determination, rather than being determined by City officers acting under delegated authority.

Having considered the application, including submissions received in relation to the application, City officers consider that the application is consistent with the *City of Busselton Local Planning Scheme No. 21* (Scheme) and the broader, relevant planning framework including Local Planning Policy 5A – Extractive Industries (LPP5A).

It is therefore recommended that the application be approved, subject to appropriate conditions.

The Council at its Ordinary Meeting on 12 February 2020 considered a report on the application and resolved to defer a decision on the development application until a later Ordinary Meeting date on 11 March 2020 (C2002/030 refers). The reasons given for the deferral were as follows:

'To allow a fully informed decision to be made regarding this application, further information is required outlining the non-compliance issues/audits carried out on approved extractive industry operations; clarification of the traffic count and the figure at which a road is sealed; clarification of the residential density of the area; and further discussion of the conditions of the application is required.'

Due to the nature of issues identified as reasons for deferral, and the necessary studies and analysis that looked to be expected by Councillors, on the recommendation of officers the Council resolved to further defer a decision on the application for another two weeks until its Ordinary Meeting on 25 March 2020 (C2002/070 refers).

### **BACKGROUND**

The key information regarding the application is unchanged from the initial report and is outlined again below:

- 1. Landowner/s: Margaret River Natural Resources Pty Ltd
- 2. Applicant: Margaret River Natural Resources Pty Ltd
- 3. **Site area:** 91.66 hectares
- 4. **General description of site:** Lot 101 (285) Gibb Road is located approximately 2.5 kilometres south of the intersection of Gibb, Payne and North Jindong Roads. There are three other extractive industry sites approved and operating on surrounding lots within one kilometre of the site and another three within two kilometres of the site.

The surrounding lots are predominately used for agricultural purposes, however, there are a number of Bushland Protection zoned lots located to the north-west of the site, plus a number of dwellings and some tourism related uses.

- 5. **Current development/use:** The lot is currently used for agricultural purposes.
- 6. **Brief description of proposed development:** The applicant proposed to extract 200,000 tonnes of sand and gravel with an extraction depth of one to three metres within an area of 20.94 hectares. The applicant originally proposed to transport the materials to Gale Road by taking access through two surrounding lots (being Lot 1 and Lot 4205 Gale Road). Further investigation into the traffic volumes along Gibb Road (which fronts the lot) confirmed that, based on the current traffic volumes along Gibb Road, the additional truck movements from the proposal would not trigger the requirement for the gravel portion of Gibb Road to be sealed and therefore the haulage route was modified.

The proposed haulage route is northwards along Gibb Road to North Jindong Road, then west along Roy Road to Bussell Highway. The applicant has agreed to limit the maximum truck movements so that the total vehicle movements, taking into consideration the additional vehicle movements from the proposal and the existing traffic volumes along Gibb Road, are not likely to exceed the maximum vehicle movements for a gravel road as set by the relevant planning framework.

- 7. **Applicable Zoning and Special Control Area designations:** The site is located within the Rural Zone.
- 8. **Land-use permissibility:** Industry Extractive is an 'A' use in the Rural Zone, meaning that it is a use that may be permitted in the Zone at the reasonable discretion of the City, following a compulsory period of consultation and consideration of any submissions received. Under LPP5A the site is located within Policy Area 3, which is considered less constrained than other policy areas due to the primarily agriculture nature of the area.

The following attachments are unchanged from the initial Council report presented to the Council at its meet on 12 February 2020 and are attached to this report:

- Attachment A: Location plan.
- Attachment B: Site plan.
- Attachment C: Explanatory reports and management plans.
- Attachment D: Schedule of submissions initial round.
- Attachment E: Schedule of submissions second round.
- Attachment F: Proposed plans/documents to be approved.

The following are additional to those attached to the original report:

- Attachment G: Traffic Count Data;
- Attachment F: Traffic Consultant, Riley Consulting, advice.

### **OFFICER COMMENT**

Subsequent to the Council's resolution at its Ordinary Meeting on 12 February 2020 to defer a determination of the application, the City has undertaken further assessment, including additional traffic monitoring and the obtaining of independent advice from a traffic consultant. In addition, the proposal and applicable requirements have been further examined. In light of this further work, the Officer Recommendation on the proposal remains largely unchanged with the exception of the following modifications to the recommended conditions:

- Modifications to header condition 2, 3 and 4 to put the onus of compliance more clearly onto the owner to improve enforceability of the condition;
- Addition of a new 'prior to commencement condition' (condition 3.8) to require a 3D Digital Terrain Model to improve enforceability of conditions related to the maximum extraction level and the minimum post-extraction ground level, relative to ground water; and
- Addition of a note to condition 6.7 to limit the application of the condition which allows temporarily higher traffic volumes, or a modified haulage route to 20 working days per calendar year. Officers still consider this condition appropriate as there may be circumstances where additional truck movements and/or an alternative haulage route may be necessary.

In addition to the above, Officer Recommendation 'C.' has been added in response to the comments made by the independent traffic consultant. While the traffic consultant indicated that based on the proposed traffic volumes they did not consider additional traffic controls were required, they did indicate that a posted speed limit may be considered. Following the completion of the upgrades to the unsealed portion of Gibb Road, monitoring will be required to determine the volume and speeds of traffic. Officers will then be able to submit this information to Main Roads and request they undertake an assessment to determine if it is necessary to apply a posted speed limit of this portion of Gibb Road.

The main issues considered relevant for detailed discussion in this report are as follows:

- General considerations when making a decision on a development application;
- Conservation covenant lots;
- Amenity impacts;
- · Traffic volumes;
- Water usage volumes and sources; and
- Fuel storage on site.

Each of these issues are addressed below under the relevant heading.

### General considerations when making a decision on a development application

When considering a development application for a discretionary land use, including any land use designated as "D" or "A" land use under Table 2 - The Zoning Table of the Scheme, a decision-maker is required to exercise discretion when approving the development. The exercise of discretion should take into account relevant considerations as identified within Clause 67 — Matters to be considered by local government of Schedule 2 Deemed Provisions for local planning schemes of the *Planning and Development (Local Planning Schemes) Regulations 2015* (Matters to be Considered). The decision-maker has an obligation to exercise their statutory responsibilities appropriately and a decision is required to be based upon sound planning principles.

The Matters to be Considered which are relevant to this development application are outlined in the Statutory Environment section of this report. If an item or issue is not listed as a Matter to be Considered, it is not deemed to be a valid planning consideration and therefore is not to be given regard in the determination of a development application.

A number of issues were explored in the previous Council report in response to concerns raised in a petition and submissions on the proposal. While these matters where discussed within the Council report, it was also identified that these matters relate to the setting of the relevant planning framework and not individual decisions on development applications. While further discussion addressing these issues has been provided below, it has been provided to address the concerns raised by the community and/or Councillors, however, as these are not considered to be valid planning consideration, they have not been considered by officers in determining the recommendation of this report.

The improvement of the region, including 'economic development' is one of the broader aims of the Scheme, however economic considerations are not listed as a Matter to be Considered within the Regulations. Economic considerations per se should therefore only be considered when setting the planning framework and not when making a determination on an individual development application.

A decision to refuse a development application cannot be made on the assumption that a proposal will not comply with the development approval. The assessment and determination of a development application must be based on what has been applied for and the compliance of that proposal with the applicable requirements. Conditions may be enforced to maintain control of the operations of the activity over time. These conditions must be fair and reasonable in relation to the development and must not be so unreasonable that no other reasonable planning authority could have imposed them.

The proposed conditions that form part of the Officer's Recommendation for this application have been very carefully drafted to improve the clarity of the conditions and impose new conditions to better facilitate compliance. An example of a new condition, which has only been recently imposed on development approvals for extractive operations, is recommended condition 6.11, which requires an annual audit report to be submitted by the owner. The annual audit report is required to identify the areas of the site which have been extracted, and the areas that have been rehabilitated and detail the manner in which the conditions of development approval have been met. If the annual audit report is not submitted within the specified timeframe, then no lawful extraction or transport of materials may occur until the situation has been rectified.

#### **Conservation covenant lots**

There are 'conservation covenants' on Lots 51, 52 and 53 Gibb Road (all zoned 'Bushland Protection') to the benefit of the Department of Biodiversity, Conservation and Attractions (DBCA). These 'conservation covenants' only relate to the land which they apply to and any actions which take place on that land. The conservation covenants do not impose any limitations or restrictions on development on any other land.

DBCA have advised that their only concerns in relation to Lots 51, 52 and 53 would be if the road was widened resulting in the accidental removal of vegetation located within one of these lots that is protected by the conservation covenant. As the applicant will be required to submit details of the proposed road widening to the City, the City will require all works to be contained within the road reserve (which at 20m wide is considered to be more than adequate to contain the required road widening). No works will be able to take place within an adjoining lot without the consent of the owner of that lot.

### **Amenity impacts**

A number of concerns have been raised in relation to the potential impact of the proposal on the "residential amenity" of the area. It is noted that the site is zoned 'Rural' and is surrounded by 'Rural' zoned properties, with the exception of the three 'Bushland Protection' lots identified above. In AGC Earthmoving Group Pty Ltd and Shire of Mundaring [2008] WASAT 151, the SAT dealt with the 'central question' of rural amenity, and the position of the rural residents who objected to an extractive industry on this basis. The SAT decision stated as follows:

Even allowing for the fact that rural areas are not immune from noise and related issues ("Rural areas generate a variety of "externalities" mainly noise and dust emissions. One cannot expect to reside in such a zone and necessarily expect a quiet and serene rural environment.": Marley Duncan v Corporation of the Town of Gawler [2003] SAERDC 28 ... cited in Self and Shire of Serpentine Jarrahdale [2005] WASAT 140 ... the objectors [in AGC] still remain troubled that their 'idyllic' lifestyle might be affected by an activity (here an extractive industry) which they see as wholly counter to the notions of rural living, especially in an area such as here where the subject land forms a 'quiet rural culde-sac'. However, it is well settled that the noise and other nuisances that may be expected from the class of potential activities permitted or contemplated (if approved) in rural areas produces no absolutes in favour of objecting residents...

It is therefore considered that due to the zoning of the property, and surrounding area, that a different level of consideration to "amenity" should be given to that of an area zoned 'Residential'. While it is noted that there are sensitive premises located on surrounding lots, the zone in which they are located is one set aside for rural activities often, if not always, associated with a degree of impact.

The main emissions generated from an extractive operation that have the potential to have a detrimental impact upon the amenity of surrounding properties are noise and dust. In line with the requirements of the *Environmental Protection Act 1986*, it is necessary for individual operators to take all reasonable and practicable measures to prevent or minimise emissions from their premise. It is generally expected that, through appropriate site layout and design as well the implementation of adequate management plans, emissions from an individual extractive operation can be prevented from causing an adverse impact beyond the boundaries of the particular site. Generally, impacts will decrease with increasing distance from the source of the emission and therefore buffer distances are applied.

The Environmental Protection Authority Guidance Statement No.3 (EPA Guidance Statement) provides advice on generic separation distances between specific industries and sensitive land uses to avoid or minimise the potential for land use conflict. The distances outlined in the EPA Guidance Statement are not intended to be absolute separation distances, rather they are a default distance for the purposes of:

- identifying the need for specific separation distance or buffer definition studies; and
- providing general guidance on separation distances in the absence of site specific technical studies.

Where a lesser setback is proposed than that identified within the EPA Guidance Statement, it is not adequate justification for an application to not be supported, but rather that site-specific investigations are to be undertaken and reports demonstrating that the separation distance will meet acceptability criteria be submitted. Furthermore, enforceable management techniques should be applied to ensure an appropriate outcome.

DWER have advised the City that the extraction of gravel is not to be assessed against the hard rock requirements of the EPA Guidance Statement, therefore in relation to separation distances, the EPA Guidance Statement provides the following generic buffer distances applicable to this application:

- Sand and limestone extraction (No grinding or milling works): 300m 500m (depending on size);
- Gravel extraction (not including crushing): case by case; and
- Crushing of gravel: No set standard applies as not considered to be hard rock and therefore the 'crushing of building materials' buffer is applied at 1km.

The City's LPP5A states as follows in relation to setback distances:

Notwithstanding 6.2.1 and 6.2.2 above, the extraction of sand and limestone may be located less than 500m but generally no closer than 300m from a sensitive land use dependent upon the nature and scale of the operation and the content of a Dust and Noise Management Plan including consideration of the requirement for dust and noise measuring equipment to be installed within the site for the duration of the extraction process. However this will not apply to the extraction of basalt and other hard rock quarrying which requires greater setback distances (generally a minimum of 1000m) to a sensitive land use.

In relation to this development application, all of the surrounding dwellings meet the recommended setbacks for the extraction of sand under the EPA Guidance Statement and LPP5A of 500m.

It is noted that the extraction of gravel is proposed to be excluded from Cells 1 and 2 as per recommended condition 6.2 of the Officer Recommendation. This results in six dwellings located within 1km of Cells 3 and 4 which are proposed to be used for the extraction of gravel. This exclusion is proposed to increase the setback of gravel extraction from the majority of surrounding sensitive land uses while still maintaining Cells 3 and 4 for the extraction of gravel to be used in the upgrades of Gibb Road. As the operations will be required to comply with the *Environmental Protection (Noise) Regulations 1997* and dust will be required to be contained on site via the requirements of the Dust Management Plan and *Dust and Building Waste Local Law*, it is considered that these external impacts will be adequately addressed and therefore the proposed setbacks are appropriate.

Crushing of materials is limited, via proposed condition 6.2 of the Officer Recommendation, to 1km from any sensitive premises. This is consistent with the recommended buffer distance under the EPA Guidance Statement.

The EPA Guidance Statement and LPP5A do not address separation distances of a sensitive premises from a proposed haulage route. This matter, in particular in relation to dust, has been addressed further under the Traffic heading below.

### **Traffic**

### Dust from use of gravel road

In the last 5–10 years, the City has approved several extractive operations which proposed to use gravel roads as part of their haulage route. The most relevant of those was an extractive operation that was approved along Haag Road. The original approval of the development application for an extractive at the site required the sealing of Haag Road at the applicant's expense via a condition of approval. The applicant subsequently appealed this condition at the SAT, resulting in approval using an upgraded, but still gravel, road.

The City's *Dust and Building Waste Control Local Law* (Local Law) deals with dust from a site and requires it to be contained within the site. In addition, the Local Law also requires dust from a loaded vehicle travelling on a road to be contained via "effective measures" to ensure that the load cannot escape from the vehicle. The Local Law does not deal with dust generated from a vehicle travelling along a road. The City's LPP5A also does not deal with setbacks of sensitive land uses, including dwellings, from a road in relation to potential impacts from dust as a result of additional traffic using a gravel road.

While a recent SAT case, Joynson and Shire of Capel [2020] WASAT 21, dealt with the potential amenity impacts along a gravel haulage route of a proposed extraction, officers consider that the circumstances in this case are different to the current development application. In the SAT case, the haulage route was proposed to travel past four 'Special Rural' zoned lots (similar to the City's Rural Residential zone). The four dwellings on these lots were setback 35m-100m from the road with little to no vegetation between the dwellings and the gravel road in most cases.

In this instance, there are five dwellings within 100m–200m of the proposed gravel portion of the haulage route along Gibb Road. The additional setback to the road and vegetation along the western side of Gibb Road means that the situation is quite different to the Capel case cited above.

### **Traffic Volumes**

The City undertook further traffic counts along Gibb Road. Data was collected from 19 February 2020 until 9 March 2020. Three traffic counters were installed along Gibb Road at the following locations:

- Counter 1: 800m south of the intersection with Payne Road:
- Counter 2: 2.6km north of the intersection with Gale Road:
- Counter 3: 50m north of the intersection with Gale Road.

Over the time in which the data was collected the following maximum average vehicle per day (vpd) were recorded:

- Counter 1: weekday vpd 61.6, total vpd 52.8;
- Counter 2: weekday vpd 33.1, total vpd 33.4;
- Counter 3: weekday vpd 46.4, total vpd 47.6.

The data that was collected also indicated that between 84.6% - 85.9% of the traffic was Class 1 vehicles as classified by the Austroad Vehicle Classification system which includes vehicles up to 5.5m in length not towing anything (i.e. sedan, wagon, 4WD etc.). 3.9% - 6% were Class 2 vehicles including vehicles up to 5.5m towing a trailer, caravan or boat. The remainder of the vehicles, 7.9% - 11.4%, were larger vehicles and therefore of a higher class.

A map indicating the location of the traffic counters, as well as the data from the traffic counter, is provided at Attachment G.

In addition to the above, the City obtained independent advice from a traffic consultant. The traffic consultant advised that while LPP5A should be given consideration for the requirements of road upgrades, due to the age of the LPP it is outdated and has not kept up with current standards, including Austroad Guidelines.

The Austroad Guidelines detail standards for the design of sealed roads in Western Australia. As Austroad does not deal with unsealed roads, Main Roads advise that for guidance on the design of unsealed roads, reference is made to the "ARRB Unsealed roads manual Guidelines to good practice 3rd edition March 2009-08-19" (ARRB Guidelines). Under the ARRB Guidelines, the carriageway requirements for roads with 'very low volumes' (less than 150vpd) is one lane with a carriageway width (including shoulders) of 5m–6m.

This standard allows for vehicle to pass each other by riding half on the traffic land and half on the shoulders. ARRB Guidelines state that roads carrying 'heavy or long vehicles towing multiple trailers' (i.e. any vehicle greater in length or weight than an 'as-of-right' vehicle) should require additional road width in the order of 200mm per lane. It is considered that by requiring the carriageway width to be widened to 7m, adequate lane width is provided for two semi-trailers to pass. Taking into account the proposed maximum vehicle movements per day, it is considered that the likelihood of this occurring is relatively low, however, if this does occur it can be accommodated in the wider carriageway width.

A copy of the advice from the traffic consultant is provided at Attachments H.

There is not considered to be any planning basis on which to either refuse the application on traffic grounds, or require a more significant upgrade than what is recommended.

### Water usage volumes and sources

The City requested further information from the applicant clarifying the amount of water that will be required during operation of the extractive and where this water will be sourced. The applicant has advised that 1,000KL (or one million litres) of water will be required per annum for dust suppression on the site. No water is proposed to be used for the processing of sand and/or gravel as well as for the wash down of vehicles. The City has confirmed this figure with DWER, who have confirmed that this amount is reasonable and would allow for approximately 25 applications of water to an entire open pit area of two hectares.

In relation to the existing soak that is on the site, DWER have advised that water taken from this source for ordinary domestic and non-intensive stock watering purposes are exempt from licensing, however all "take" from this resource for commercial use requires a section 5C licence under the *Rights in Water and Irrigation Act 1914* (RIWI Act). DWER has confirmed that there is no current water entitlements or section 5C licence assigned to the property and that the allocation limit for the surficial aquifer (water table) in this area has been reached. Under DWER's policies within the *South West Groundwater Areas Allocation Plan* (2009), once a water resource is fully allocated, no new allocations may be granted by the Department. Therefore, the applicant will need to consider alternative water supplies or purchase an allocation from the surficial resource through a trade or lease agreement with an existing licence holder, to secure an authorised water supply for the proposed development under the RIWI Act.

Condition 3.2 of the officer recommendation requires the applicant to provide details of their water supply to implement their Dust Management Plan before they commence any extraction.

### **Fuel storage on site**

There is fuel stored on the site and it is expected that will continue. While the City does not require development approval for the incidental storage of fuels associated with the use of a rural site, separate approvals from the Department of Mines, Industry Regulations and Safety (DMIRS) are required in some instances under the *Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007* (Dangerous Goods Regulations). DMIRS requirements specify a number of exemptions for fuel storage and only requires approval for the storage of certain fuels and/or the storage of certain quantities of fuels over specified thresholds. Should approvals be required for the storage of fuels on the site under the Dangerous Goods Regulations, the owner would be required to make separate application to DMIRS.

Water Quality Protection Note No. 56 – Tanks for fuel and chemical storage near sensitive water resources from DWER would also apply. It is noted that on extractive industry approvals the City, via an advice note, advises applicants that fuels should not be stored within the extracted pit area due to the proximity of the pit floor to the water table and increased change of contamination of the water table should a spill occur. The storage of fuel within the pit area is not proposed as part of this application.

### **Statutory Environment**

The key statutory environment is set out in the City of Busselton *Local Planning Scheme 21* (Scheme), the *Planning and Development (Local Planning Schemes) Regulations 2015* (Regulations), Schedule 2 of which is the 'deemed provisions', which also functionally form part of the Scheme. The key aspects of the Scheme and Regulations relevant to consideration of the application are set out below.

### Zoning

The site is zoned 'Rural'. The objectives of the 'Rural' zone are as follows:

- a. To provide for the maintenance or enhancement of specific local rural character.
- b. To protect broad acre agricultural activities such as cropping and grazing and intensive uses such as viticulture and horticulture as primary uses, with other rural activities as secondary uses in circumstances where they demonstrate compatibility with the primary use.
- c. To maintain and enhance the environmental qualities of the landscape, vegetation, soils and waterways, to protect sensitive areas especially the natural valley and watercourse systems from damage.
- d. To provide for the operation and development of existing, future and potential rural land uses by limiting the introduction of sensitive land uses.
- e. To provide for a range of non-rural land uses where they have demonstrated benefit and are compatible with surrounding rural uses.
- f. To provide for development and expansion of the viticultural, winemaking and associated tourism activities and other industries related to agricultural activities, in addition to general rural pursuits, in a manner that does not cause adverse environmental impact.
- g. To provide for the extraction of basic raw materials, where appropriate.

The proposal is considered to satisfy the objectives of the zone.

### Land-use and permissibility

The proposed land uses is defined as follows:

"Industry – Extractive" means premises, other than premises used for mining operations, that are used for the extraction of basic raw materials including by means of ripping, blasting or dredging and may include facilities for any of the following purposes –

- (a) the processing of raw materials including crushing, screening, washing, blending or grading,
- (b) activities associated with the extraction of basic raw materials including wastewater treatment, storage, rehabilitation, loading, transportation, maintenance and administration.

Industry - Extractive is identified as an 'A' or advertised use within the Rural zone.

### Matters to be considered

Clause 67 of the deemed provisions within the Regulations sets out 'matters to be considered' by a local government in considering an application for development approval. The following matters are considered to be relevant to consideration of this application:

- (d) any environmental protection policy approved under the Environmental Protection Act 1986 section 31(d);
- (g) any local planning policy for the Scheme area;
- (m) the compatibility of the development with its setting including the relationship of the development to development on adjoining land or on other land in the locality including, but not limited to, the likely effect of the height, bulk, scale, orientation and appearance;

- (n) the amenity of the locality including the following
  - (i) environmental impacts of the development;
  - (ii) the character of the locality;
  - (i) social impacts of the development;
- (o) the likely effect of the development on the natural environment or water resources and any means that are proposed to protect or to mitigate impacts on the natural environment or the water resource;
- (p) whether adequate provision has been made for the landscaping of the land to which the application relates and whether any trees or other vegetation on the land should be preserved;
- (q) the suitability of the land for the development taking into account the possible risk of flooding, tidal inundation, subsidence, landslip, bush fire, soil erosion, land degradation or any other risk;
- (s) the adequacy of
  - (i) the proposed means of access to and egress from the site; and
  - (ii) arrangements for the loading, unloading, manoeuvering and parking of vehicles;
- (t) the amount of traffic likely to be generated by the development, particularly in relation to the capacity of the road system in the locality and the probable effect on traffic flow and safety;
- (x) the impact of the development on the community as a whole notwithstanding the impact of the development on particular individuals;
- (y) any submissions received on the application;...

### **Relevant Plans and Policies**

A Matter to be Considered which is required to be given due regard when determining a development application includes any applicable LPP, which in this instance is LPP5A. LPPs are prepared by a local government to provide additional information about the position that local government will take on certain planning matters. LPPs are not part of a local planning scheme and as such cannot impose any mandatory requirement upon development, however, they may provide guidance on the way in which proposals will be assessed and determined by that local government. LPPs must be consistent with the intent of the relevant local planning scheme provisions and must also be consistent with any relevant SPP.

### **Local Planning Policy 5A - Extractive Industries**

LPP5A provides guidance regarding the extraction of basic raw materials. The application site is located within Policy Area 3. The elements of LPP5A considered particularly relevant to assessment of the application are as follows:

1. 4.2.2.3 Policy Areas 2 and 3:

Notwithstanding 6.2.1 and 6.2.2 above, the extraction of sand and limestone may be located less than 500m but generally no closer than 300m from a sensitive land use dependent upon the nature and scale of the operation and the content of a Dust and Noise Management Plan, including consideration of the requirement for dust and noise measuring equipment to be installed within the site for the duration of the extraction process. However, this will not apply to the extraction of basalt and other hard rock quarrying which requires greater setback distances (generally a minimum of 1000m) to a sensitive land use.

2. 4.2.2.5 Policy Areas 2 and 3:

Where an extractive industry is approved within 1km of a residence or tourist accommodation or attraction, additional conditions to reduce amenity impact from noise and dust may be imposed, including operating times.

3. 4.2.5 Route Assessment and Transportation:

The potential impacts of an extractive industry will be assessed against the Scheme and the following criteria:

- a) The outcomes of the Schedule 1 Traffic Impact Assessment and Road Upgrading Guidelines.
- b) Any comments or recommendations from Main Roads WA.
- c) The impacts of haulage traffic noise, vibration and amenity loss on surrounding areas.

### **Financial Implications**

There are no financial implications associated with the officer recommendation.

### **Stakeholder Consultation**

Clause 64 of the deemed provisions sets out circumstances in which an application for development approval must be advertised, and also sets out the means by which applications may be advertised.

The purpose of public consultation is to provide an opportunity for issues associated with a proposed development to be identified by those who potentially may be affected. A development application should not be approved or refused based on the number of submissions it receives, for or against, rather all applications must be determined on the merits of the particular proposal, including consideration of any relevant planning issues raised through consultation.

The application was initially open for submissions from 28 September 2018 to 31 October 2018. The application was advertised in the following manner:

- 1. Information regarding the application was posted on the City's website;
- 2. A portal was created using the City's YourSay platform for the online lodgement of submissions;
- 3. Letters were sent to all the land owners within one kilometre of the site; and
- 4. A notice was placed in a local newspaper on 10 October 2018.

A total of 33 submissions were received from 29 properties. Where multiple submissions were received from the same address, these were counted as one submission. The submissions included 2 submissions in support, 10 submissions opposed and 17 pro-forma letters in support of the proposal.

A schedule of submissions from the initial round of consultation is provided as Attachment D. The schedule identifies who submissions were received from and summarises the submissions. Following provision of additional hydrology information and modifications to the proposed access and haulage route the application was re-advertised from 28 November 2019 to 13 December 2019.

Initially, the second round of consultation was undertaken via email to anyone who made a submission during the initial advertising period excluding those who completed the pro-forma letter. However, due to the number and nature of submissions a referral letter was sent to all landowners within one kilometre of the site. In addition, the advertised period for all parties was extended until 31 December 2019.

A schedule of submissions from the second round of consultation is provided as Attachment E. The schedule identifies who submissions were received from and summarises the submissions.

During this second round of advertising a total of 26 public submissions from 21 properties were received, all of which were objections. Where multiple submissions were received from the same address, these were counted as one submission.

The concerns raised within both submission periods can generally be summarised as follows:

- Haulage Route, including:
  - Proposed haulage route along Gibb Road with the following concerns:
    - Safety concerns from insufficient width; and
    - Additional wear on the road.
- Proposed haulage route along Roy Road with the following concerns:
  - Safety concerns from insufficient sightlines along Roy Road and for entering/exiting traffic; and
  - Conflicts with school bus routes.
  - Amenity and health concerns, including:
    - Concerns regarding dust emitted from the extractive activities and along haulage route. Potential impact on health and wellbeing of people within the area as well as potential impact on vegetation, wildlife and other commercial operations within the area (vineyards); and
    - o Impact upon amenity of the area from noise from the operations.
  - Environmental concerns including:
    - o Impacts on native fauna and flora; and
    - Impacts on the ground water table.
  - Number of extractives within the locality with ongoing compliance issues.

Where issues are raised which are not able to be considered, as they do not relate to the relevant planning framework, the comment provided (note comments have been grouped given the number of submissions received) indicates that, but does not provide further commentary or discussion.

That does not necessarily suggest that the issues are not genuine issues of concern to the submitter or more broadly, but they are unfortunately not issues that can or should be addressed in the assessment of the application.

In addition to the above, the application was referred to Main Roads, Department of Water, Environment and Regulation and Department of Biodiversity, Conservation and Attractions. A summary of these agencies' comments are provided within the schedule of submissions at Attachment D and E.

In addition to the above, the City has received a petition objecting to the proposal including the cumulative negative impact as a result of the number of extractions within the area and the impacts on tourist operations, vineyards, recreation activities and residential blocks within the area. The petition was addressed as part of the previous Council report on the application presented to the Council on 12 February 2020. The concerns raised in this petition are considered to have been adequately addressed in the previous council report on the application and are not commented on further within this report.

### **Risk Assessment**

An assessment of the potential implications of implementing the officer recommendation has been undertaken using the City's risk management framework, with risks assessed taking into account any controls already in place. The key risk to the City is considered to be the potential reputational and environmental risk that may arise if the site is not managed in a manner consistent with the conditions of approval. Mitigation of that risk requires proactive and appropriately resourced compliance activity.

### **Options**

As an alternative to the proposed recommendation the Council could:

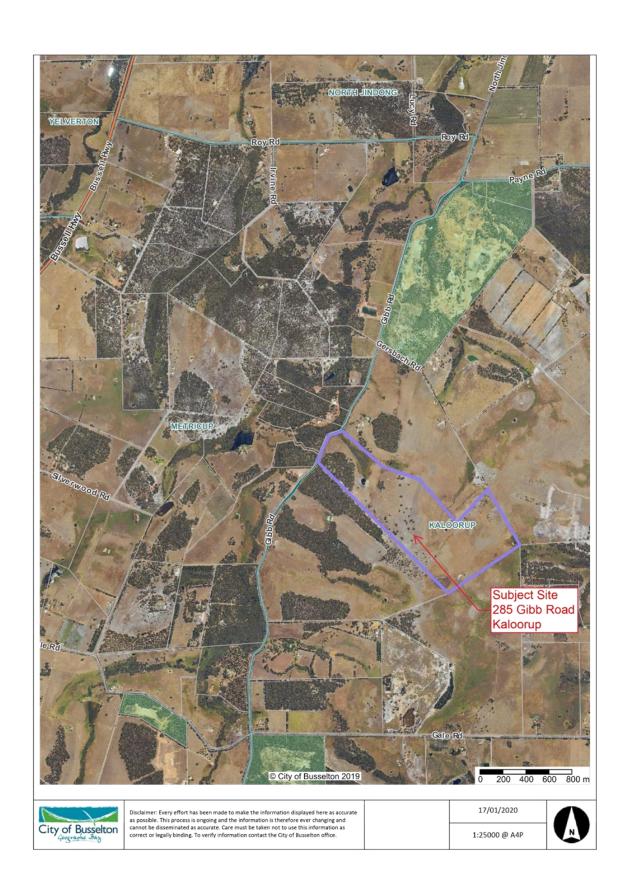
- 1. Refuse the proposal, setting out reasons for doing so; or
- 2. Apply additional or different conditions.

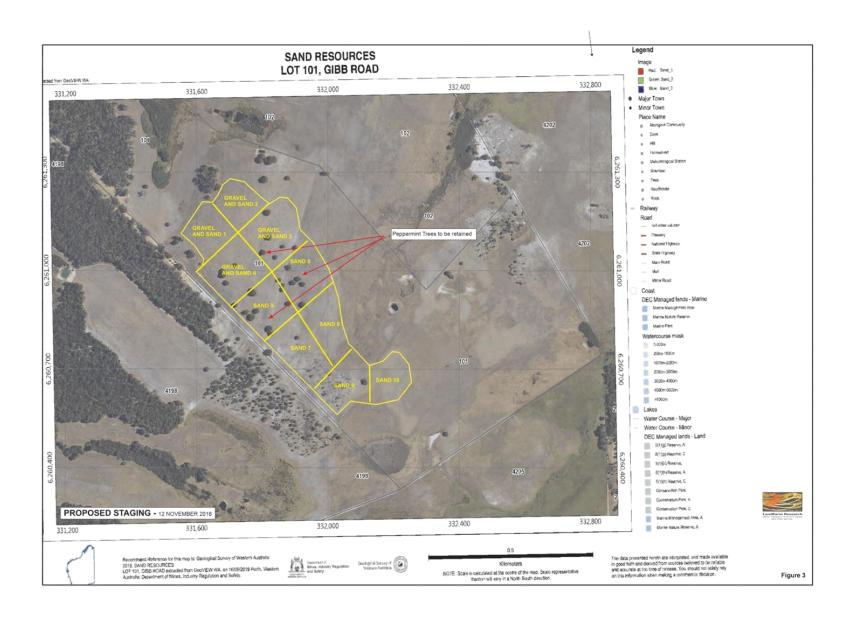
### **CONCLUSION**

Subject to the inclusion of relevant conditions, the proposal is considered appropriate to support and it is accordingly recommended for approval.

### TIMELINE FOR IMPLEMENTATION OF OFFICER RECOMMENDATION

The applicant and those who made a submission will be advised of the Council decision within two weeks of the Council meeting.





# PROPOSED SAND EXCAVATION

EXCAVATION and REHABILITATION MANAGEMENT PLAN

Lot 101, Gibb Road, Kaloorup

City of Busselton

MARGARET RIVER NATURAL RESOURCES PTY LTD

30 November 2019

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

### EXCAVATION and REHABILITATION MANAGEMENT PLAN

Lot 101, Gibb Road, Kaloorup

### MARGARET RIVER NATURAL RESOURCES PTY LTD

As trustee for Margaret River Natural Resources Trust

28 Cutler Road Jandakot, WA 6164

Quarry Manager – Roger Cook 08 93417 1111 0419 198 049



Lindsay Stephens BSc (Geology), MSc (Plant Ecology)

Mem Aus Geomechanics Soc - MEIANZ - FIQA

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Tel 08 9474 3978, landform@iinet.net.au

Landform Research

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

### Summary

A sand resource has been identified on Lot 101 that is suitable for fill sand with some deeper coarse sand that is capable of use for filtration and specialty uses.

This documentation provides the background for an application for Planning Approval and Extractive Industries Licence to extract the resource.

The City of Busselton and nearby areas are undergoing significant development, much of which is located on low lying land that requires fill and consequently requires sand for construction and fill

The sand is a valuable resource for the community as it is highly suitable for fill and other construction materials. The local area is a known sand resource in which active sand pits occur.

The sand extends to depth but is anticipated that the pit will be 1-3 metres deep with an average of 1.5 metres, deepening slightly at the western edge where the resource is thicker. The water table measurements taken on 14 November 2018 and 6 September 2019 show that the sand resource is approximately 2.0 metres deep in the south east and centre thickening to 3.5 metres deep in the north west. With a separation of 0.5 metres to the water table the thickness of resource will be 1-1.5 metres in the east and centre and up to 3.0 metres in the west. Gravel resource occurs in the north west with the sand.

City of Busselton, Planning, "Rural Land Use and Development" Policy, 2010 compliments the Local Planning Scheme and has policies with respect to the extraction of sand.

Policy 5A Extractive Industry Provisions seeks the protection and staged use of basic raw materials whilst minimizing environmental and social impacts.

A Lot 101 is zoned "Agriculture" it lies within Policy Area 3 – "Extractive Industry Less Constrained" in City of Busselton, "Rural Land Use and Development" Policy, 2010.

The excavation areas are set back from Gibb Road. Transport will be to Gibb Road and then along Gibb Road to the north, to join with linking roads.

As perimeter buffer of 20 metres with earth bunding is proposed for adjoining lots in compliance with Section 6.4 City of Busselton Policy 5A – Rural Areas land Use and Development Policy.

The depth of excavation will be 1 - 3 metres with an average of 1.5 metres based on resource, with the water table from 0.5 metres to over 2.0 metres below the pit floor, which complies with all policies. The area of sand pit is approximately 20.94 hectares but not all will be taken because of the trees. The volume of resource delineated in the proposal is about 200 000 toppes.

It is anticipated that up to 30 000 tonnes of sand with a small amount of gravel, will be produced annually. This amounts to an average of approximately 6 laden truck movements per day using trucks laden with 25 tonnes average if all loads are spread out. What is likely is that on some days there will be more trucks and on other days less or no truck movements.

If a large contract is won which will require additional truck movements, Margaret River Natural Resources will notify the City at least one week in advance of the commencement of the contract. As the sand resource is relatively small a large contract would be anticipated to be around 2 trucks per hour or 20 per day. The City will be notified prior to that level of transport, which will provide opportunities for discussions between the proponent and the City.

The loading and access of each truck will normally take approximately 10 minutes.

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Hours of operation are proposed to be 7.00 am to 5.00 pm Monday to Friday inclusive, excluding public holidays.

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A 10 year length of approval is requested.

The loading and access of each truck will normally take approximately 3 minutes and would be achieved using one loader.

This documentation provides the support for application for Planning Approval and Extractive Industries Licence.

The proposal complies with the all Buffer Guidelines to sensitive premises.

Table 1 Site Summary

ASPECT	PROPOSAL CHARACTERISTIC
EXCAVATION	
Total area of excavation applied for, including the land already open	Proposed excavation – 20.94 hectares (approx.)
Rate of excavation based on average anticipated volumes.	Generally up to 20 000 tonnes per year of sand including a small amount of gravel, with an anticipated maximum of 30 000 tonnes per year depending on contracts.  If a large contract is won which will require additional truck movements, Margaret River Natural Resources will notify the City at least one week in advance of the commencement of the contract.
Life of project	10 years
Area cleared per year	No native vegetation. < 1 hectare pasture required per year.
Dewatering requirements	Nil
Maximum depth of excavations	1 - 3 metres in benches as required.
PROCESSING	
Resources	A screening plant will be sued to produce specialty sands if required and there is potential for a small mobile wash plant for coarse sand.
Water requirements	Nil
Water supply source	Soak in creekline
INFRASTRUCTURE	
Total area of plant and stock	Located in pit
Area of settling ponds	Water will be retained in the pit
Fuel storage	No fuel storage
TRANSPORT	
Truck movements	Variable but average up to 6 laden trucks per day.
Access	Gibb Road north.
WORKFORCE	
Construction	Opening the pit consists of topsoil and overburden removal prior to excavation, and the formation of the access road.
Operation	2 - 4 persons
Hours of operation	Hours of operation will be 7.00 am to 5.00 pm Monday to Friday inclusive, excluding public holidays for processing and excavation.

This Excavation and Management Plan has been prepared addressing the factors outlined in EPA Guidance Statement 33, Environmental Guidance for Planning and Development 2005 and Department of Planning Guidelines for Extractive Industries.

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Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

### Management

The excavation, processing and environmental management proposed has been designed to reflect best practice and utilises Commonwealth and State Guidelines.

### Safety Management

All quarries operate under the provisions of the *Mines Safety and Inspection Act 1994 and Regulations 1995*. These are administered by the Department of Mines Industry Regulation and Safety.

The regulation is achieved through the DMIRS Safety Regulations and Reporting Systems (SRS).

All quarries on commencement are required to register with the SRS system. As part of the registration a Project Management Plan is required to be produced and lodged online.

Officers from the Safety Division of the DMIRS regularly inspect the operations in relation to health and safety.

### **Environmental Management**

The environmental management is designed to reflect best practise, outlined in particular in;

Department of Resources, Energy and Tourism (Commonwealth), 2011, A Guide to Leading Practice Sustainable Development in Mining, and guidelines produced by Environmental Protection Authority, Department of Water, Environment Regulation, Department of Mines Industry Regulation and Safety, Western Australia Planning Commission and the Local Authority.

An Environmental Risk Assessment has been developed based on the EPA Environmental Factors which have been identified by the EPA as the factors to be considered when reviewing environmental impact and outcomes in Western Australia.

The EPA Factors have been used and added to in the following table, which provides for the environmental risk if not mitigated or managed and the assessed environmental risk when the proposed design and management procedures are effectively implemented.

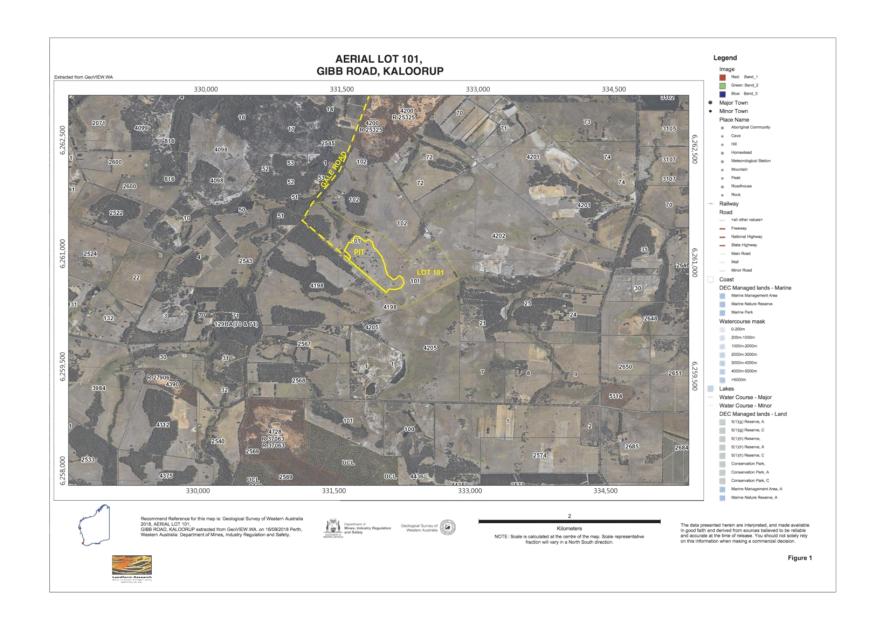
All the EPA environmental factors, together with the other factors, are provided in the Environmental Risk Table to show that some are not relevant to this proposal. Leaving them out may lead to some uncertainty in a reviewer's mind.

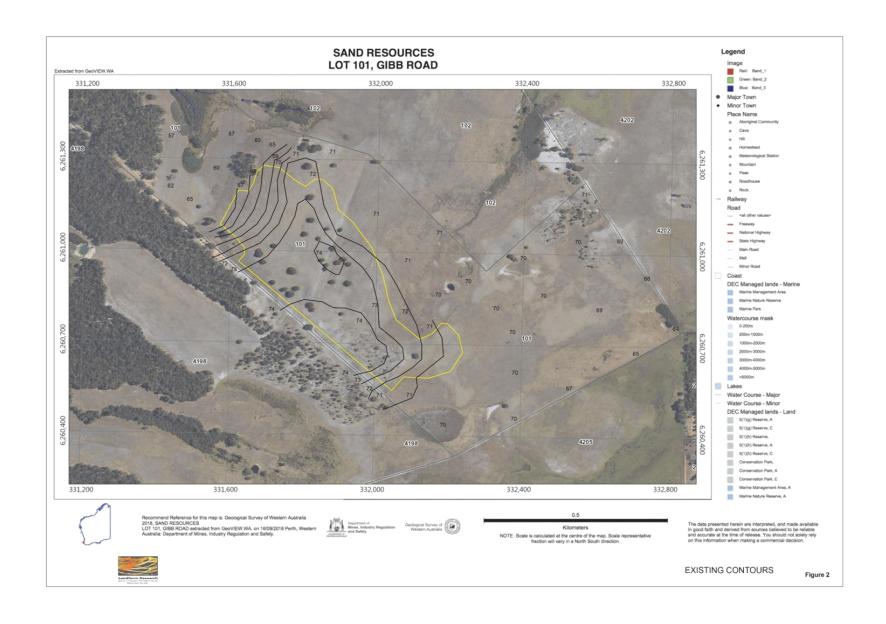
The Environmental Risk Matrix was developed to the principles of AS/NZS ISO 140001:2004 (Environmental Management Systems) and AS/NZS ISO 19011:2014 (Guidelines for auditing Management Systems). The principles of AS/NZS 31000:2009 (Risk Management Guidelines) are also used when considering any risks.

The Risk Table includes references to the various parts of the document to enable easy review and provides a summary of the project and its management.

The risk assessment table also forms the basis of an auditable matrix.

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Sand Excavation, Lot 10, Gibb Road, Kaloorup.

Environmental	Identified Issues	Unm	anaged I		Proposed Management	References	Manag		
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
VEGETATION  To maintain representation, diversity, viability and ecological function at the species, population and community level.	Vegetation communities and/or biodiversity may be significantly impacted by clearing, weeds and dieback.	E	1	Low	Weed and Dieback policies are proposed and will be implemented.  The only nearby vegetation is the remnant Jarrah – Marri Forest between Gibb Road and the proposed sand pit.  The resource area has around 20 isolated Peppermint trees which are not proposed to be cleared; being retained with 10 metre separation buffers.		E	1	Low
	Threatened Communities may be impacted by inadvertent impacts.	E	1	Low	None present. The site is cleared with isolated Peppermint (Agonis flexuosa) trees which are to be retained.		E	1	Low
	Priority species may be affected by clearing, disturbance, weeds, dieback and other impacts.	E	1	Low	None present. The site is cleared with isolated Peppermint (Agonis flexuosa) trees which are to be retained.		E	1	Low
	Threatened Species may be impacted by inadvertent impacts.	E	1	Low	None present. The site is cleared with isolated Peppermint (Agonis flexuosa) trees which are to be retained.		E	1	Low
	Weeds may become established and impact on the local and on site biodiversity	С	3	High	A weed management program is proposed and will be used in conjunction with normal farm management.  The operator is part is also part of the ownership of the land so there is incentive to keep the pasture in good condition.	Weed Management Plan	С	1	Low
I r a l	Dieback disease may be present and impact on the local and onsite vegetation.	E	1	Low	Dieback management procedures are in place.  See Weeds above.	Dieback Management Plan	E	1	Low
	The developments may fragment communities, biodiversity and ecological linkages.	E	1	Low	The site cleared.  Previously cleared vegetation to the north of the pit has been allowed to re-establish. This is enhancing the conservation corridors rather than reducing them.		E	1	Low

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### Attachment C

Environmental	Identified Issues	Unma	naged R		Proposed Management	References	Manag	Managed Risk		
Commitment	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk	
TERRESTRIAL FAUNA  To maintain representation, diversity, viability and ecological function at the species, population and assemblage level.  Communities and fauna and/or biodiversity may be significantly impacted by clearing, weeds and dieback.  Threatened Faunal Communities may be impacted by inadvertent impacts.	fauna and/or biodiversity may be significantly impacted by clearing, weeds	E	1	Low	The site is pasture and cleared sand pit so the fauna habitat values are not likely to be impacted, only enhanced when additional Peppermint trees in linkages are planted.	Figure 3, 4	E	1	Low	
	E	1	Low	No Threatened Communities occur on site.		E	1	Low		
	Priority Fauna species may be affected by clearing, disturbance, weeds	E	1	Low	There are no Priority Fauna on site. The resource area has around 20 isolated Peppermint trees which being isolated do not appear to provide habitat for Western Ringtail Possums if they occur locally.  The isolated Peppermint (Agonis flexuosa) trees are to be retained with a 10 metre buffer.  The proposal is to plant 100 Peppermint trees in clumps as a corridor linking the remnant forest to the creekline vegetation which will provide enhanced habitat for the species.		E	1	Low	
	Threatened Fauna Species may be impacted by inadvertent impacts.	E	1	Low	The site is pasture and cleared land. There are no habitat or feeding trees that are suitable for Black Cockatoos on the extraction site.  See above		E	1	Low	
SUBTERRANEAN FAUNA  To maintain representation, diversity, viability and ecological function at the species, population and assemblage level.	The development may have an impact on an isolated population of subterranean fauna.	E	1	Low	The site is deep sand with no subterranean cavities.		E	1	Low	

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Environmental	Identified Issues	Unma	anaged F	Risk	Proposed Management	References	Managed Risk		
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
To maintain the variety, integrity, ecological functions and environmental values of landforms and soils.	The local landform may be altered to a form that is not compatible with the surrounding geomorphology.	D	2	Low	The site will be excavated by 1 – 3 metres by skimming the top from a low plateau. The final surface will be similar visually and, in form, the pre-excavation form.	8.0 Visual Management	D	2	Low
	The final land surface should be fit for its required end use.	Е	1	Low	The end use will continued to be pasture and productive agricultural land.	Section 11.0 Closure.	E	1	Low
	The development and final landform will not lead to significant visual impacts.	E	1	Low	The site will be excavated by 1 – 3 metres by skimming the top from a low plateau. The final surface will be similar visually and, in form, the pre-excavation form. Viewsheds have been generated and show little or no impact with the pit unlikely to be visible from Gibb Road and not visible from Gale Road.	Figure 4, 5, 7,	E	1	Low
	The final landform and soils may be subject to erosion by wind, water or other processes.	С	2	Mod	The sand excavation operations are designed to minimise erosion and dust. Drainage will be internal with no release of surface water.	See Dust Management Section 6.0 and Closure, Section 11.0	D	2	Low
	Acid soils are not exposed or are managed to ensure that there are no long term adverse effects.	E	1	Low	Not present	Section 9.9	E	1	Low

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Environmental	Identified Issues	Unma	anaged l	Risk	Proposed Management	References	Managed Risk			
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk	
HYDRO - GEOLOGICAL PROCESSES	The ecological functions of watercourses are to be maintained.	Е	1	Low	Drainage will be internal with no release of surface water. There will be no significant change to recharge and the pit is set back 100 metres from the headwaters of a small creekline	Section 9.0 Water Management.	E	1	Low	
To maintain the hydrological regimes of groundwater and surface water so that existing and potential uses, including ecosystem maintenance, are	Groundwater may be impacted by changes to recharge, over- pumping, alterations to flow paths or lead to significant evaporation and water loss.	D	1	Low	The operations are based on shallow sand. Excavation will retain a minimum of 0.5 - >2.0 metres separation to the water table in compliance with DWER policies for the South West.  All water is retained on site in the base of the pit. There will be no significant change to recharge and the pit is set back 100 metres from the headwaters of a small creekline.	Figure 3, 7 Section 9.0 Water Management.	E	1	Low	
protected.	Wetlands may be altered by draining or flooding, potentially changing their ecological functions and biodiversity.	Е	1	Low	The only wetlands are regrowth colonisation of Taxandria linearifolia that has spread on the sands to the north where the soil moisture has increased since the land was converted to pasture some decades ago.  The excavation is set back 100 metres from the Taxandria colonisation.		E	1	Low	
WATER QUALITY  To maintain the quality of graintone water	Hydrocarbons, fuels and other chemicals are stored in a manner that they pose no risk to the environment.	С	2	High	Fuel and hydrocarbon management programs are in place. No fuel is to be stored on site. The loader is to be refueled from a mobile tanker that will access the site as needed.	Figure 3 Section 9.0 Water Management.	D	2	Low	
sediment and biota so that the environmental values, both ecological and social, are protected.	Runoff from operations may carry sediment and any deleterious materials off site.	D	2	Low	All water is retained on site in the base of the pit. Runoff from operations is contained and all water is either retained or treated to removed sediment and any deleterious materials. The excavation is set back 100 metres of pasture from the <i>Taxandria</i> colonisation	Figure 3, 7 Section 9.0 Water Management.	E	2	Low	
	Water quality during and after development is not adversely affected or altered.	D	2	Low	See above		D	2	Low	

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Environmental	Identified Issues	Unma	anaged F	Risk	Proposed Management	References	Managed Risk		
Objective Commitm	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
OFFSITE EMISSIONS  To maintain representation, diversity, viability and ecological function at the species, population and community level.	Dust emissions may travel offsite.	В	3	High	Based on the nature of the sand, equipment used and excavation methods, the extraction of sand has potentially the lowest impact and a generic buffer of 300 metres is appropriate and could be less if significant impacts are confined.  There are no residential properties within the application area, and the nearest residential site is located over 500 metres from the excavation.	Figures 1, 3. Section 3.0 Section 6.0	D	2	Low
	Dust emissions may impact on local and on site personnel health or quality of life.	E	1	Low	See above.  Thee is a negligible risk to those dwellings as shown by the DWER assessment score.  Complies with Department of Health Guidelines and has in place the remnant vegetation to the north.	Section 6.1, Tree Belt Buffers	E	1	Low
	Noise levels will comply with the Environmental Protection (Noise) Regulations 1997.	E	1	Low	Noise levels will comply with Environmental Protection (Noise) Regulations 1997.  The site complies with the EPA Generic and research buffer distances.  The closest dwelling are over 500 metres from the excavation.		E	1	Low
	Noise levels and operational procedures will be used to protect on site personnel health and safety.	С	3	High	The operations are designed to minimise on site noise and the potential for offsite noise.		D	2	Low
	Emissions gases and other materials potentially adverse to human health will not be used or will be managed.	D	2	Low	There are no gaseous or other potential harmful emissions from the operations.		D	2	Low
	Potential impacts from blasting will comply with the Environmental			NA	There is no blasting.				NA

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Protection (Noise) Regulations 1997 and guidelines for ground vibration.							
Employ procedures and design the operations to minimise the risk of excessive greenhouse emissions.	E	1	Low	The pit is designed to operate as efficiently as possible.	E	1	Low

Environmental	Identified Issues	Unma	anaged F	Risk	Proposed Management	References	Manag	ed Risk	
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
HERITAGE  Known heritage	Known aboriginal heritage sites will be protected.	E	2	Low	No archaeological or ethnographic sites are known from or recorded on Department of Planning, Land and Heritage databases.		E	2	Low
sites will be protected.	Sites of European heritage will be protected.			NA	None known				NA
	Heritage sites uncovered during operations will be independently assessed and managed through communication with the community, Government and traditional owners.	D	2	Low	A commitment is made to this.	Section 2.5.3	D	2	Low

### Attachment C Explanatory Reports and Management Plans

Environmental	Identified Issues	Unma	anaged F	Risk	Proposed Management	References	Manag	ed Risk	
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
HEALTH  To minimise the impact on the local community	Human health is protected from adverse impacts of dust, noise, other emissions and chemicals.	E	1	Low	Sand grains such as this carry no known health impacts.		E	1	Low
	Transport may impact on local, and regional roads or school bus routes.	E	1	Low	Transport will continue to be along an access road through adjoining properties to Gale Road, which is sealed.  The access road has been used for past sand operations.		E	1	Low
	The operations have been designed to provide sufficient buffers and visual protection.	Е	1	Low	The site complies with the EPA Generic and research buffer distances and Health Department WA Guidelines. The closest dwelling lies at over 500 metres		E	1	Low

### **Explanatory Reports and Management Plans**

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Environmental	Identified Issues	Unma	anaged F	Risk	Proposed Management	References	Manag	ed Risk	
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
CLOSURE AND REHABILITATION  To ensure that premises are closed, decommissioned and rehabilitated in an ecologically sustainable	At the end of excavation the created soils should be deep enough or of sufficient quality to be sustainable to meet the long term end use or ecological values.	В	3	High	A shallow swale 1 – 3 metres deep is to be retained at the end of excavation.  Rehabilitation will be directed towards the final end land use of a return to pasture and productive agricultural land on the floor.  Topsoil will be transferred directly from an area being cleared and spread across the surface of the areas to be rehabilitated If direct transfer is not possible, any material stored in dumps will be respread.	Figure 3, 4, 7 Section 11.0 Closure	D	2	Low
manner, consistent with agreed outcomes and land uses, and without unacceptable liability to the State	All infrastructure, roads, hardstand, non natural materials are to be removed from site progressively when not required and all removed at the end of the project.	С	2	Med	This is committed to.	Figure 3, 4, 7 Section 11.0 Closure	D	2	Low
	No materials are to be left on site that may cause long term detrimental outcomes in terms of impacts to soils, water, heritage, vegetation health or other factors.	С	2	Med	This is committed to.	Figure 3, 4, 7 Section 11.0 Closure	D	2	Low
	All contaminated materials are to be removed from site prior to closure.	С	2	Med	All contaminated materials are to be removed from site prior to closure.	Figure 3, 4, 7 Section 11.0 Closure	D	2	Low

Environmental	Identified Issues	Unma	anaged R	lisk	Proposed Management	References	Manage	ed Risk	
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
RESOURCE REQUIREMENTS  Basic Raw Materials are required for continued use by the community and for future developments.	There is significant basic raw material on site that is suitable for community resources.				The site lies in a local area where a number of sand pits have operated over the years. This operation will replace an exhausted sand pit on the adjoining land.	Figure 1			

Environmental	Identified Issues	Unma	naged F	Risk	Proposed Management	References	Manag		
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
COMMUNITY CONSULTATION  To provide a community consultation process commensurate	The proposal will be advertised and the nearby people will be able to comment.			NA	The City of Busselton has been consulted with respect to the proposed renewal of the sand excavation and will advertise the proposed sand pit.  Margaret River Natural Resources has liaised with all adjoining property owners who do not have any issues with the development.				NA
with the size nature and time line of the project.	A complaints and improvements procedure will assist management of the site.			NA	An ongoing complaints program is proposed.	3.5 Complaints Procedure			NA

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Environmental Factor - Objective	Identified Issues and Commitments	Unmanaged Risk			Proposed Management	References Mana		aged Risk	
		Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
PLANNING COMPLIANCE  To comply with Government Policy, planning zones and procedures.	The project is designed to comply with State and Local Planning requirements.	E	2	Low	The project is designed to comply with State and Local Planning requirements in particular SPP 2.5.  The Land zoning is "Agriculture". The zoning lists basic raw materials within the objectives of the zone. State Planning Policy 2.5 (SPP 2.5) requires basic raw materials to be identified, protected, used in a staged manner and not impinged by competing land uses.  SPP 2.5 prevails over the Town Planning Scheme, which should reflect the intent of the State Planning Policy. This is a renewal of an existing sand operation.  The proposal complies with the City of Busselton, Planning Policy 5, "Rural Land Use and Development" Policy, 2010.	Section 2.5 Land Zonings and Policies	E	2	Low
	The area of potential impacts is not large enough to significantly impact on essential or desirable land uses.	E	2	Low	The disturbance footprint is not anticipated to increase significantly as rehabilitation will follow excavation.		E	2	Low
	The development will not adversely impact on an area identified as having high agricultural or community values.	E	1	Low	The land is pasture and will be returned to pasture on the floor.  The final agricultural values are not expected to be significantly different.		Е	1	Low

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Environmental	Identified Issues	Unma	anaged F	Risk	Proposed Management	References	Mana	ged Risk	
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
SAFETY  To ensure that the project provides high levels of safety to on site	Ensure that the project provides high levels of safety to on site personnel.	С	3	High	The operations are designed to comply and operate to the <i>Mines Safety and Inspection Act 1994</i> .  The operations are registered under the Department of Mines Industry Regulation and Safety, SRS system.  A Fire Management Plan will be provided in combination with normal farm fire management.		D	2	Low
personnel and the community	Ensure that potential impacts are retained on site and do not cause significant risk of safety to the local and wider community.	D	2	Low	The only transport route is Gale Road, which is sealed and is used for other sand mining operations.  The traffic from this site will constitute an average of 6 laden trucks per day which will replace the sand extraction on the adjoining Lot 1 so there should be little or no change to local traffic.  There are no proposed changes to the intensity and scale of the operations or the transport routes. The site is fenced and installed with locked gates.		D	2	Low
	Have in place a transport policy to ensure that transport along public roads is conducted in a safe manner.	E	1	Low	Transport policies such as covering loads are proposed as is truck safety.	A	E	1	Low

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Sand Excavation, Lot 10, Gibb Road, Kaloorup.

Environmental	Identified Issues	Unma	anaged F	Risk	Proposed Management	References	Manag	ed Risk	
Factor - Objective	and Commitments	Likelihood	Consequence	Risk			Likelihood	Consequence	Risk
GEOTECHNICS  To ensure that all ground and geological materials is safe commensurate with the operations	The operational and final land surfaces will be made safe and not subject to subsidence, slippage or other adverse conditions.	С	2	Med	The end use is a very shallow gentle swale and a return to pasture and productive land.		D	2	Low
and final land surface.	The quarry and operations will comply with the Mines Safety and Inspection Act 1994.	С	4	High	Margaret River Natural Resources Pty Ltd is committed with complying with the relevant Acts and Regulations. The site is registered on the DMIRS SRS System and has a Project Management Plan in place.		D	2	Low
	The operational and final surfaces and features are designed to be not affected by extreme climate events.	E	1	Low	The end use is a very gentle swale and a return to pasture and productive land.  There will be no alteration to drainage or other local landforms.		E	1	Low

Sand Excavation, Lot 10, Gibb Road, Kaloorup.

### RISK MATRIX

			Effect / Consequence				
			1	2	3	4	5
Туре			Insignificant	Minor	Moderate	Major	Severe
Environmental Impact			No discernible, adverse impact, individuals of species may be affected locally.	Discernible effect on the environment but no adverse impact, minor number of individuals of species may be affected locally	Minor adverse effect to the environment (including public amenity), moderate loss of individuals of species locally.	Moderate damage to ecosystem function, major loss of individuals of species locally, loss of public amenity.	Significant long-term damage/loss to ecosystem function, extinction of a species locally
	A Almost Certain	Likely that the unwanted event could occur often (once per week) during the life of an individual item or system	Medium 11	High 16	High <b>20</b>	Very High 23	Very High 25
	B Likely	Likely that the unwanted event could occur several times per year during the life of an individual item or system.	Medium 7	Medium 12	High 17	High 21	Very High 24
Likelihood	C Possible	Likely that the unwanted event could occur sometime (once per year) during the life of an individual item or system.	Low 4	Medium 8	High 13	High 18	High 22
	D Unlikely	Unlikely, but possible for the unwanted event to occur once in the life of an individual item or system.	Low 2	Low 5	Medium 9	High 14	High 19
	E Rare	Highly unlikely that the unwanted event could ever occur in the life of an individual item or system.	Low 1	Low 3	Medium 6	Medium 10	High 15

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Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

### 1.0 INTRODUCTION

### 1.1 Background and Proposal

The City of Busselton and the Shire of Augusta Margaret River and nearby areas are undergoing significant development, which requires fill sand for foundations and to lift the elevation of low lying land for construction.

A sand resource has been identified on Lot 101 that is suitable for fill sand with some deeper coarse sand that is capable of use for filtration and specialty uses.

This documentation provides the background for an application for Planning Approval and Extractive Industries Licence to extract the resource.

The proposal is to extract sand from approximately 20.94 hectares on Lot 101 and transport it along Gibb Road north and then west to Bussell Highway.

### 1.2 Proponent

Margaret River Natural Resources Pty Ltd is a well regarded local sand resource supplier that has operated in the Busselton local government area for ten years, supplying sand to the local markets and providing coarse sands for sorting into various water filtration and other purposes.

Contact can be made through;

MARGARET RIVER NATURAL RESOURCES PTY LTD, as trustee for Margaret River Natural Resources Trust.

28 Cutler Road Jandakot, WA 6164

Quarry Manager – Roger Cook 08 93417 1111 0419 198 049

### 1.3 Location and Ownership

Lot 101 lies approximately 8 kilometres north from Cowaramup Townsite, 3 km east from Bussell Highway.

### 1.4 Project Objectives

The proposal is to continue to provide a source of local sand to assist in minimising the cost of construction in the local and wider area.

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

### Importance and Rationale

#### Nature of the resource

The sand is a sub rounded to rounded quartz sand generally medium grained; with a significant portion of the grains being larger than 1.5 mm. It is dark grey brown in the surface with a small amount of humus, then grading to brown sand at depth with some associated gravel.

The whole resource area has been investigated using an excavator digging test holes on a grid pattern. The sand varies from yellow to white and from 1-3 metres deep with an average of 1.5 metres.

The sand occurs as a discontinuous sheet of coarse sand overlain by finer fill sand derived from the ocean when the sea lapped the Whicher Scarp.

The sand appears to be of aeolian origin, and extends to 3.0 metres depth but averages 1.5 metres. The sand is similar to the sand that has been extracted from nearby pits.

Sand in the local area, that is free from excessive clay, is restricted in areas which are cleared. Therefore this site is important because it is cleared pasture and will be returned to pasture.

The DMIRS has recognised the risks from sterilisation of resources of sand in the southern areas and is currently undertaking an assessment of future community needs.

#### See:

- Western Australia, Western Australian Planning Commission, State Planning Policy 2.4, Basic Raw Materials.
- Western Australia, Western Australian Planning Commission, State Planning Policy 2.5, Agriculture and Rural Land Use.
- Department of Planning and the WAPC released the draft Basic Raw Materials Demand and Supply Study for the Bunbury – Busselton Region.
- Department of Planning 2016, Basic Raw Materials Fact Sheet.
- Abeysinghe P B, 2003, Silica Sand Resources of Western Australia, Geological Survey of Western Australia, Mineral Resources Bulletin 21.
- Department of Planning 2009, Basic Raw Materials Applicants Manual.

# The aims of the proposal are to;

Provide a supply of white and yellow silica and fill sand.

- Provide a supply of sand for the construction industry to be used in the local Region together with a small amount of coarser sand that is suitable for filtration purposes.
- Maximise the use of basic raw materials in the local area, to enable greenhouse gases, transport, and other environmental issues associated with alternative resources, to be minimised.
- Help to keep the prices of local basic raw materials at the lowest possible levels, by maintaining small transport distances. This benefits the whole community.
- Comply with State Planning Policy No 2.5, Agricultural and Rural Land Use Planning 2016, which states that basic raw materials should be taken prior to sterilisation of the area by development.
- Return the excavated area to pasture.

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

### 2.0 PLANNING ASSESSMENT

### 2.1 Current Land use

Lot 101 is a grazing property, that lies in a local area of existing quarries that have extracted sand and gravel. Much of these resources are now used and alternative resources are now required.

The extraction area is cleared apart from scattered regrowth trees of Peppermint Agonis flexuosa on the sand resource. There are around 20 regrowth Peppermint on the resource area

There are no dwellings within 500 metres. Arrangements have been made with the landholders to the south where sand has been extracted.

The same transport route as the sand from the property to the south are to be used, (See the attached permission from the respective landholders.

### 2.2 Proposed Land use

Sand extraction with an end use to parkland pasture.

#### 2.3 End Use

After sand excavation the land will be returned to productive agricultural land.

The contoured surface will therefore be restored slopes and form that match the adjoining land form and land uses.

# 2.4 Land Zonings and Policies

# 2.4.1 State Government Policies and Planning Schemes

### State Planning Policy 1.0, State Planning Framework Policy

The State Planning Policy Framework provides for the implementation of a planning framework through the recognition and implementation of Regional Planning Policies above Local Planning Schemes and Policies.

Within each layer of planning, there are a number of key policies and strategies to provide guidance to planning and development to enable sustainable communities to develop, expand and prosper without compromising the environment and future generations.

Planning is governed under the *Planning and Development Act 2005*. This Act enables Government to introduce State and Regional Planning Schemes, Policies and Strategies to provide direction for future planning. The State and Regional Schemes sit above Town Planning Schemes and Strategies introduced by Local Government.

Strategies and Policies provide guidance on how planning is to be undertaken and how proposed developments are to be considered. These Strategies and Policies are at the State, Regional and Local levels.

Schemes are gazetted documents that provide for consideration and approval of proposed developments. These are normally at the Regional and Local Level.

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

In addition to the documents produced under the Planning and Development Act 2005, the Local Government Act 1995 provides Local Governments with a mechanism to prepare Local Laws to manage issues of local significance.

With respect to the supply of sand and gravel the, the overarching document is the;

State Planning Policy 1.0 State Planning Framework.

A number of State Policies have been released under the State Planning Framework Policy.

State Planning Policy 2.0, Environment and Natural Resources Policy State Planning Policy 2.4, Basic Raw Materials State Planning Policy No 2.5, Agricultural and Rural Land Use Planning State Planning Policy No 4.1, State Industrial Buffer Policy

These are considered in turn.

A number of other key State Government Policies are also relevant to the local regional planning such as the State Planning Strategy 2050 released in 2014.

# • State Planning Strategy, 2050 (2014)

State Planning Strategy 2050 comprises a range of strategies, actions, policies and plans to guide the planning and development of regional and local areas in Western Australia and assists in achieving a coordinated response to the planning challenges and issues of the future by State and Local Governments.

The approach in the strategy considers Basic Raw Materials as listed below.

ELEMENT	2050 OUTCOMES	MEASUREMENT	ASPIRATIONS
Basic raw material (BRM) supply	Accessible and affordable supplies of BRM are available close to	The cost of supplying basic raw materials to the building and construction on industry	Appropriate polices are in place to manage existing and future BRM supplies over the long term.
	demand		<ul> <li>BRM are optimally used for their highest purpose.</li> </ul>
			The securing of BRM sites is managed through robust strategic sequential land use planning and development control prior to final land use
			Demand for BRM is partly managed through compact settlement structures that contain high-density built form.

The environmental management of the quarry has been developed to minimise short and long term impacts on the local community and environment.

The operations have been designed to continue to provide good environmental management that minimises environmental change and enables continued rural land uses.

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### • State Planning Policy 2.0, Environment and Natural Resources Policy

This policy provides for the protection of all natural resources under a number of sections;

- 5.1 General Measures
- 5.2 Water Quality including stormwater and wetlands
- 5.3 Air Quality

Attachment C

- 5.4 Soil and Land Quality
- 5.5 Biodiversity
- 5.6 Agricultural Land and Rangelands
- 5.7 Minerals Petroleum and Basic Raw Materials
- 5.8 Marine Resources and Aquaculture
- 5.9 Landscape
- 5.10 Greenhouse Gas Emissions and Energy Efficiency.

In addition to recognising the importance of protecting air quality, soil and land quality, water and wetlands and landscapes, the importance of Basic Raw Materials to the community is identified with reference to SPP 2.4 Basic Raw Materials, State Gravel Strategy 1998 and State Lime Strategy 2001. See Section 2.1 of this management plan.

Section 5.7 of SPP 2.0, deals with Minerals, Petroleum and Basic Raw Materials.

Part of Section 5.7 states:

Basic raw materials include sand, clay, hard rock, limestone and gravel together with other construction and road building requirements. A ready supply of basic raw materials close to development areas is required in order to keep down the cost of land development and the price of housing.

Planning strategies, schemes and decision making should:

Identify and protect important basic raw materials and provide for their extraction and use in accordance with State Planning Policy No 10 (2.4); Basic Raw Materials.

Support sequencing of uses where appropriate to maximise options and resultant benefits to community and the environment.

The other factors of the natural environment are provided with the best protection possible, by this management plan, by selection of the site, operational staging and footprint and rehabilitation, bearing in mind the constraints of excavating and processing the resource.

# • State Planning Policy No 2.5, Agricultural and Rural Land Use Planning, 2016

SPP 2.5 Agricultural and Rural land Use Planning predominantly deals with the continued rural use of suitable land and its protection for the future. The policy was updated in December 2016 and provides strong measures to identify, protect and use basic raw materials.

SPP 2.5 does reiterate the need to protect and use basic raw materials.

Basic Raw Materials are included in the definitions as

Sand (including silica sand), clay, hard rock, limestone (including metalurgical limestone), agricultural lime, gravel, gypsum, and other construction materials. The materials may be of State, regional or local significance depending on the resource location, size, relative scarcity, value and demand for the product.

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Amongst seeking to protect agricultural values, Policy Objective 4 (c) states

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Outside the Perth and Peel Planning regions, secure significant basic raw material resources and provide for their extraction.

Section 5.9 deals with Basic Raw Materials and seeks to achieve the following in an environmentally acceptable manner;

Protect the resources until the resource is extracted (5.9.a)

Identify significant basic raw materials on sub-regional and local planning strategies, region and local planning schemes (5.9.b, 5.9.c, 5.9.d)

The extraction of basic raw materials should not be generally prohibited (5.9.e)

Provide for sequential land use (5.9.f)

Limit sensitive land uses to locations demonstrated to not limit existing or potential extraction of basic raw materials (5.9.g)

Provide for the consideration of native vegetation or significant biodiversity values and may require retention and protection of vegetation and environmental assets (5.9.h)

Have regard for the potential impacts of fragmentation and connectivity of native vegetation (5.9.i)

Maintain adequate buffers to protect water quality in public drinking water source areas (5.9i)

SPP 2.5 also supports preventing conflicting land uses (5.12.1), supports the generic buffers recommended by other Government documents such as the EPA Guidelines for separation distances (5.12.3), and seeks to restrict subdivision from impinging on basic raw material resources.

Policy SPP 2.5 is also supported by Guidelines that seek to protect the Landscape and secure Transport Routes.

### . State Planning Policy No 4.1, State Industrial Buffer Policy

SPP 4.1 discusses the need to consider adjoining land uses when locating buffers but does not prescribe set buffers for operations such as this. The development and processing of the resource has been designed to maintain maximum buffer distances. In situations where the buffers are less, actions such as the provision of perimeter bunding to provide visual and noise management, tree planting and operational procedures are used to mitigate and reduce impacts.

This is discussed further in Section 2.11 Surrounding Landuses and Buffers of this document.

# Basic Raw Materials Demand and Supply Study for the Bunbury – Busselton Region draft 2012

In August 2012, the Department of Planning and the WAPC released the draft Basic Raw Materials Demand and Supply Study for the Bunbury – Busselton Region.

# Attachment C

# **Explanatory Reports and Management Plans**

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The document is used to determine the future requirements for the various basic raw materials in the local urban developments and the Bunbury – Busselton Region. It predicts that by 2021 an additional 8706 dwellings will be required in the region.

A total of 43 753 000 cubic metres sand is predicted to be required until 2030 alone so fill sand such as this is a much needed commodity.

# 2.4.2 Local Government Policies and Planning Schemes

The City of Busselton has one Local Planning Scheme; TPS 21.

The City of Busselton also has a land use strategy to provide a context for local planning within the regional planning strategies;

City of Busselton Local Planning Policy 5, Rural Land Use and Development Policy 2010

In addition the City of Busselton has an extractive industry bylaw;

Lot 101 lies within Policy Area 3 for Extractive Industries.

All the listed planning instruments provide guidance on local planning, but, in addition, approval is required under the;

• City of Busselton Local Planning Scheme 21.

The relevant policies have all been considered with respect to this application. The Quarry complies with, or is compatible with, all policies, strategies and schemes.

A summary of each of the relevant policies, strategies and schemes is provided below, with a comment on how the excavation of sand relates to each.

# City of Busselton Local Planning Scheme Number 21

The City of Busselton Scheme 21 lists the site as occurring in the Agriculture Zone.

The Agriculture Zone aims to preserve agricultural land uses and not compromise the landscape and natural environment.

Extractive Industries are an "A" use within that zone. Approval under Local Planning Scheme 21 is normally granted with a number of conditions.

Lot 101 is listed as lying within the "Agriculture Zone".

# City of Busselton, Planning Policy 5 "Rural Land Use and Development" Policy, 2010

The City of Busselton, Planning Policy 5, "Rural Land Use and Development" Policy, 2010 compliments the Local Planning Scheme and has policies with respect to the extraction of sand.

Policy 5A Extractive Industry Provisions seeks the protection and staged use of basic raw materials whilst minimizing environmental and social impacts. The Policy outlines a comprehensive set of assessments and management with respect to extractive industries, including, but not limited to;

Visual Assessment,

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- > Route Assessment and Transportation,
- > Community Referral by the City,
- > Environmental Considerations,
- Buffers and setbacks,
- Dust and Noise,
- Land Clearing,
- > Water Tables and Acid Sulfate conditions,
- > Site Restoration and Rehabilitation.

# **Extractive Industries Licence**

An Extractive Industries Licence is issued under City of Busselton Local Law

### **Current Land Zonings**

Lot 101 is zoned "Agriculture".

Lot 101 lies in Policy Area 3 – "Extractive Industry Constrained" in City of Busselton, Planning Policy 5, "Rural Land Use and Development" Policy, 2010

### 2.4.3 End Use – Sequential Planning

The extraction of sand is seen as an interim use prior to a return of the area to pasture.

No sequential land planning can be made because the future use is not known. Therefore the most appropriate end use is to restore the existing cleared and parkland pasture land with native vegetation around the perimeter and in strategic locations.

This would enable semi-rural land uses and rural uses on the landform. Any use other than rural will require rezoning of the land. Even so the proposed revegetation would be suitable for rural living if rezoning was to occur at some point in the future.

# 2.4.4 Legislative Framework - Stakeholders

There have been no significant changes to the scale and nature of the local land uses over the past few years. Sand excavation has been approved to the south and the adjoining lot to the east.

Legislation	Environmental	Discussion	Action
	Factor regulated/affected		
Aboriginal Heritage Act 1972	Aboriginal heritage sites	Recorded Heritage Sites A database search of DPLH has been conducted and no site recorded	A commitment is made to halt activities that may impact on a site if any is found during excavation, pending assessment by consultants.
Planning and Development Act 2005. City of Busselton LPS 21.	Development approvals for on site constructions and any ensuing environmental impacts.	Planning Consent is required from the City of Busselton under City of Busselton LPS 21.	A concurrent application for development approval is lodged.
City of Busselton, Planning Policy 5 "Rural Land Use and Development" Policy, 2010	The application and management of quarries is covered by the Policy.	This assessment and Management Plan has considered the issues outlined in the Policy and has addressed them and other factors as necessary.	The Excavation and rehabilitation Plan uses "Best Practise" to mitigate potential environment and social impacts.
City of Busselton Extractive Industries Local Law 2010	The operations of the quarry are regulated by both the Planning Approval and Extractive Industries Licence	An Extractive Industries Licence is required.	An application for an Extractive Industry Licence is concurrently lodged.
Health Act 1911	Environmental and health impacts from waste water treatment and community health.	No matters of significance that would trigger this legislation have been identified.	The proposal complies with the Health Department Guideline for Dust separation. (See Dust Management) No waste materials will be disposed of on site.
Department of Planning, Land and Heritage Transport Impact Guidelines 2016	New developments may need to consider transport options.	This is a small sand pit located in an area where sand and gravel extraction has occurred for many years. This operation will be similar to the closed sand pits in terms of access and scale of activities or transport.	Discussions will be held with the City of Busselton to determine what arrangements need to be implemented with respect to road maintenance
Western Australian Planning Commission Planning Bulletin 111/2016	New developments may need to consider fire risk and mitigation such as a bushfire policy and BAL attack document.	This is a sand pit with no structures that present a fire risk.  The pit acts as a fire management zone as it is devoid of vegetation.	No assessment is required because there are no significant fire risk and WAPC 2016 Planning Bulletin 111/2016 does not require a BAL Attack assessment.
Environmental Protection Act 1986 Part IV - Assessment	constitute a significant environmental impact.	This is a small sand pit in an area where small quarries are common.	No referral to the EPA will be required as there is no chance of this being a "Significant Environmental Impact".
Environmental Protection Act 1986 Part V – DWER Licence	Environmental factors that may be significantly impacted related to Prescribed Premises-Processing and Screening	If screening is to prepare in excess of 5 000 tonnes per year the operation will require a Department of Water Environment Regulation Licence.	A DWER Licence will be applied for prior to screening which triggers the "Prescribed Premises"; 5 000 tonnes per annum.  It is unlikely that the washing of sand will exceed 5 000 tonnes per year and if there is no screening Part (V) of the
Environmental Protection (Noise) Regulations 1997	Noise impacts.	The excavation is located over 500 metres from any sensitive premises with other existing and old extraction	Environmental Protection Act may not be triggered.  Noted. See Noise Management.
-		close by. The proposed excavation therefore	

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		complies with the EPA generic buffer	
		guidelines.	
Environmental Protection (Clearing of Native Vegetation) Regulations 2004	Clearing and disturbance of native vegetation.	Clearing Permit under the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 is required under the Regulations.	A Clearing Permit is unlikely to be required for scattered trees with some trees likely to be able to be retained.
Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)	Matters listed on the EPBC database.	The matters listed under the EPBC Act 1999 which might apply to this site such as Black Cockatoo habitat and Western Ring Tail Possum Habitat.	The proposal does not require the clearing of Black Cockatoo habit. See below.
Wildlife Conservation Act 1950	Provides for the protection of flora and fauna.	The clearing of vegetation is covered under the Environmental Protection (Clearing of Native Vegetation) Regulation. There is potential for Western Ringtail Possums to live locally. These are listed as "Vulnerable".	The proposal does not require the clearing of Black Cockatoo habit with the only vegetation to be impacted being isolated regrowth Peppermint.  The potential for impact on Possums is considered low for the following reasons.  The clearing of Peppermint trees is minimised with the scattered trees to be retained.  The existing Peppermint Trees are isolated and do not afford suitable habitat for Possums.  Additional Peppermint Trees will be planted in clumps with wildlife linkages.
Conservation and Land Management Act 1984	Parks and Reserves and issues relating to flora and fauna.	There are no known issues or nearby reserves that will trigger this legislation.	Noted.
Biodiversity Conservation Act 2016	The legislation seeks to protect and manage biodiversity in all its forms through regulation, conservation and restoration.	There are no known issues that trigger this legislation.	Noted.
Heritage of Western Australia Act 1990	Heritage	No heritage matters are identified locally or on quarry footprint. DPLH databases were searched.	Noted.
Waterways Conservation Act 1976	Water quality and management of surface water	There are no watercourses on the extraction site although a creekline commences to the north of the proposed pit.	A Water Management Plan has been prepared and is included. The Water Management Plan has been approved by the DWER.
Rights in Water and Irrigation Act 1914	Water quality and management of surface water	See above	See above.
Country Areas Water Supply (CAWS) Act 1947	Water supplies	The site does not lie within a surface or groundwater control area.	Noted
State Agreement Acts	Specific acts that relate to certain large projects that may impact on some locations.	Not applicable	No motoriale are pro-
Contaminated Sites Act 2003	Contaminated materials that may arise from excavation or be used in	The only factor that is likely to fall under this category is the storage and use of maintenance items and on site maintenance.	No materials are present or to be used which would trigger this legislation apart from normal fuel and maintenance.

	excavation and processing.		A Water Management Plan has been prepared that includes commitments to remove any contaminated soils or other material regularly and at the end of excavation as part of the closure actions.
Dangerous Goods Safety Act 2004	Potential for dangerous good to impact on the environment.	Refers to fuel, which is required and blasting under the <i>Dangerous Goods Safety (Explosives) Regulations 2007.</i>	Margaret River Natural Resources will comply with the requirements for fuel through management plans that will be implemented. Fuel and Servicing Management Plans are included in the attached Water Management Plan.
Mines Safety and Inspection Act 1994	Safety and management of mining operations which in turn may impact on the environment.		Mine Safety  The site will be registered under the SRS and a Project Management Plan, Risk Assessment and Emergency plans approved. The Project Management Plan addresses all aspects of mining. The SRS System addresses ongoing Health and Safety.
Project Management Plan – SRS System	Safety and management of mining operations which in turn may impact on the environment.	Compliance with the Project Management Plan when it is submitted and approved.	Mine Safety  The site is registered under the SRS and a Project Management Plan, Risk Assessment and Emergency plans approved. See Above

Table 2 Stakeholder Register

Stakeholder	Date - Timing	Potential Considerations	Proponent Response - Outcome			
Internal Stakeholders						
Internal Management	Ongoing     Day to day management of the operations,     Future directions and ownership.		The methods of operation are not proposed to be e significantly different from other sand quarries in the local area or from other sand extraction operations conducted to the northwest in the City of Busselton.			
External Stakeh	olders					
EPA	<ul> <li>This is a small quarries are of</li> </ul>	I sand pit in an area where small ommon	No referral is necessary.			
Department of Biodiversity Conservation and Land Management		ve flora and fauna	Minimal clearing is required and will be considered under a Clearing Permit Application as required.			
Department of Environment and Energy Commonwealth • The listed matter that might apply is to Western Ringtail Possum. There will be impact on species preferred for feeding breeding habitats for Black Cockatoos. • The Western Ringtail Possum is listed "Vulnerable" under the EPBC Act 1999.		gtail Possum. There will be no becies preferred for feeding or tats for Black Cockatoos. Ringtail Possum is listed as	The potential for impact on Possums is considered low for the following reasons.  The clearing of Peppermint trees is minimised. The existing Peppermint Trees are isolated and do not afford suitable habitat for Possums. Additional Peppermint Trees will be planted in clumps with wildlife linkages.			
City of Busselton	Planning School Issues Extraction quarry under Regulates la	ctive Industries Licence for the the Local Law. and zonings and planning in with the Western Australian	Margaret River Natural Resources Pty Ltd will work with the City of Busselton on complying with the conditions and minimising local impacts.     There have been discussions with the City of Busselton with respect to the new entrance from Gibbs Road, to service the farming operations on Lot 101. This was required because the land was agisted			

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	Controls the measures used to prevent bush	to the holder of Lot 102 who accessed Lot 101	
	fires.	directly through a gate.	
<b>N</b>	Regulates truck use on local roads.		
Nearby Residents	The quarry has setbacks and buffers exceeding 500 metres and complies with the EPA Generic Buffer Guidelines. The scale and type of operations are similar to those operating in the local area.	discussed the proposal with all adjoining lot owners who appear comfortable with the proposed	
Department of Lands Planning and Heritage (DAA) and traditional land holders	Maintains heritage databases	Department of Planning Lands and Heritage database has been searched and no sites have been found.	
DWER	May provide advice on aspects of environmental impact and management.     Issues clearing permits under the Environmental Protection Act 1986. (Not required)	If clearing of the scattered regrowth trees is proposed for which a Clearing Permit is required, a Clearing Permit will be applied for.	
	Published guidelines for water quality management for extractive industries.     Licenses bores and oversees water use.     Has control over the management of ground and surface water in the area, including water catchments.	Complies with DWER Guidelines for water management and separation to the groundwater of > 2 metres, generally and with the 0.5 metres separation provided by the South West Guideline for extractive industries. The Water Management Plan has been approved by DWER The site lies within Geographe Bay Rivers Surface Water Protection Area.	
	A DWER Licence is required under Part IV of the Environmental Protection Act 1986 for crushing or screening if the annual volumes exceed 5000 - 50 000 tonnes. (Category 70 Prescribed Premises).	exceeds 5 000 tonnes per year.  • It is unlikely that the washing of sand will exceed 5 000 tonnes per year and if there is no screening Part (V) of the Environmental Protection Act may not be triggered.	
WAPC	Prepares State Planning Policies.     SPP 2.5 now covers this area,	Noted	
DMIRS Safety Division	Conditions on the safety of the operations.  Controls the safety and methods of excavation through the <i>Mines Safety and Inspection Act</i> 1994.  Responsible for regulation of mines under the	Noted and in place.	

Mining Act 1978.

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# 3.0 BUFFERS AND SOCIAL IMPACTS

There are no proposed changes to the scale and nature of the excavations. The access points and intensity of excavation will not change.

# 3.1 Consideration of nearby sensitive premises

The quarry is designed to maximise the setbacks to the closest sensitive premises.

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As part of the development of the management plans for the proposed quarry extensive analysis of the local landform, land uses and location of sensitive premises were made by Landform Research from the available sources of published information, aerial photography, historical aerial photography, site mapping, review of the nearby and surrounding land uses, local and regional planning and local and wider environmental attributes

The main environmental issues identified in relation to buffers and setbacks to sensitive premises, in addition to those generally recognised by the various Government and Published guidance's are;

- Visual amenity
- Dust management
- Noise management
- Blasting
- Local amenity
- Cumulative impacts of quarries

# 3.2 Policies

### Generic and State Buffers

A number of Government Policies relate to buffer distances and the protection of basic raw materials. State Planning Policy No 4.1, State Industrial Buffer Policy, (draft July 2004) discusses the need to consider adjoining land uses when locating buffers but does not prescribe set buffers for operations such as this.

SPP 4.1 discusses the need to provide buffers both on site and offsite with respect to industry including extractive industries. It does not however specify any distance for the buffer, but notes that site specific studies should be prepared that will demonstrate that the extractive industry can operate in a manner compatible with nearby sensitive premises.

The State Industrial Policy 4.1 does not specify a set buffer distance, but notes that buffers are to be based on "scientific study" and are flexible. It further specifies the buffers by reference to other documentation such as the Environmental Protection Policies, EPA and DWER standards and DPLH Generic Industrial Buffer Guidelines; that is the EPA 300 - 500 metre generic buffer used in SPP 2.4 and SPP 2.5 that are used in the absence of supporting or scientific studies and information.

EPA guidance "Separation Distances between Industrial and Sensitive Land Uses", June 2005 lists the generic buffers for sand quarries as 300 – 500 metres depending on the extent of processing.

The Draft DWER Buffer Guidelines (DER 2015) have been withdrawn. The generic buffer for screening up to 50 000 tonnes was 500 metres.

The buffer documents now defer to the EPA 2005 Guidance Statement.

The buffer referred to can be both on site and offsite although in this case only on site buffers are required.

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A generic buffer relates to the distance at which there are unlikely to be any problems without some further investigations and does not mean that smaller buffers are not acceptable.

SPP 2.5 supports preventing conflicting land uses (5.12.1), supports the generic buffers recommended by other Government documents such as the EPA Guidelines for separation distances (5.12.3), and seeks to restrict subdivision from impinging on basic raw material resources.

The issue of appropriate buffers is a matter of the distance and protection measures to prevent impact on adjoining land users. This applies mainly to noise, dust and visual impact, all of which are treated separately.

The walls of the pit, perimeter bunding and nature of the ridge landform will be used to reduce noise transmission.

Excavation will be worked from inside out on the floor of the pit working below natural ground level.

Based on the nature of the sand, equipment used and excavation methods, the extraction of sand has potentially the lowest impact and a generic buffer of 300 metres is appropriate and could be less if significant impacts are confined.

There are no residential properties near the application area, with over 500 metres separation to all sensitive premises.

The sand pit therefore complies with the EPA Generic Buffer Guidelines.

### City of Busselton Rural Areas and Land Use Development Policy - 2010

Section 5A of the Policy; Extractive Industry Provisions Section 6.2 provides for some setbacks.

Section 6.2.1 limits extractive industries to 500 metres from a tourist facility where the owners object., Section 6.2.2 Limits the setback to 500 metres from a dwelling where the owner objects with Section 6.2.3 limiting the separation to generally no closer than 300 metres depending on the size and scale of the operation.

City of Busselton Policy 5A - Rural Areas land Use and Development Policy provides guidelines for the buffers to sensitive premises.

Lot 101 lies within Policy 3 Extractive Industry Constrained. Section 6.2.3 of the Policy provides for sand to generally not be extracted within 300 metres of a sensitive premises, dependant on the "nature and scale of the operation and the content of a Dust and Noise Management Plan".

The proposed quarry complies with the City of Busselton Rural Areas and Land Use Development Policy – 2010, with sensitive premises having setbacks of over 500 metres.

A perimeter buffer of 20 metres with earth bunding is proposed for adjoining lots in compliance with Section 6.4 City of Busselton Policy 5A – Rural Areas land Use and Development Policy. That buffer will then be battered down to match the excavated area.

# 3.3 Community Consultation

The Proposal will be advertised to the local property owners as part of the consideration by the City of Busselton.

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Margaret River Natural Resources Pty Ltd have consulted extensively with all adjoining properties and have held discussions with the City of Busselton.

As Lot 101 was farmed by the owner of Lot 102 access from Lot 102 was provided through the fence between the two properties. However with the sale of Lot 101, an upgraded access had to be provided to service the farming operations on Lot 101.

This crossover upgrade resulted in some local people on Gibb Road expressing concern with the potential use of Gibb Road south. Gibb Road south is a partially winding narrow road. However Gibb Road north is a better grade of road and is suitable for the transport of sand.

Therefore Margaret River Natural Resources Pty Ltd held discussions with all adjoining property holders and the City and have determined that the best access route is Gibb Road north. See the attached Transport Plan.

A summary of the discussions with the local people is provided in Table 2, Stakeholder Register.

# 3.4 Heritage

A search of the Department of Aboriginal Affairs database does not reveal aboriginal sites on Lot 101.

The site has been an operating farm for many years, with ongoing soil disturbances through that time.

Should any archaeological site be uncovered, work will cease in that area pending an assessment of the site by an independent consultant, traditional owners and the Department of Planning Lands and Heritage as required.

# 3.5 Complaints Mechanism

The following complaints mechanism is proposed.

- > The contact details will be displayed at the entrance to the operations.
- > A complaints book will be provided and maintained.
- Upon receipt of a complaint it will be investigated and action taken if the complaint is determined to be legitimate.
- When a complaint is found to be legitimate, any reasonable actions to mitigate the cause of the complaint will be taken, to prevent a recurrence of the situation in the future.
- Details of any complaints, the date and time, means by which the complaint was made, the nature of the complaint, the complainant, investigations and any resulting actions and the reasons, will be recorded in the Complaints Book.

- The City of Busselton will be informed of any complaint or any other report provided to a Government Department within 3 working days.
- The complaints book will be made available for viewing or requested details made available to the Shire or any other official upon request.



Figure 4 Photograph of the sand resource. The Peppermint Trees are to be retained



Figure 5 Sand resource

Landform Research

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### 4.0 PHYSICAL ATTRIBUTES

### 4.1 Geology and Geomorphology

The sand lies between the Leeuwin Complex and the Yilgarn Craton in a down faulted basin filled with Permian overlain by Cretaceous sediments.

The land system is the Yelverton System (DPIRD Mapping) that now lies above the Whicher Scarp and was formed as a north facing bay at a time of higher sea level.

The general formation of the sand systems are thought to be a marine with dunes, for the surface finer sands, with the basal sands being considered to have potentially originated from the Permian glacial times.

The geology is discussed in Wilde S A and D R Nelson, 2001, Geology of the Western Yilgarn Craton and Leeuwin Complex, Western Australia – Field Guide, Geological Survey of Western Australia and Marnham J R, G J Hall and R L Langford, 2000, Regolith-Landform Resources of the Cowaramup-Mentelle 1:50 000 Sheet, Geological Survey of Western Australia.

The sand resource lies on the plateau erosion surface that sits across the site at an elevation. The sand resource is located on a plateau sand and gravel ridge that rises from around 68 metres AHD to 74 metres AHD.

### 4.2 Regolith and Soils

The soils and excavation of Sands are well known from the other sand pits that have operated and currently operate across the local area. A small amount of gravel and gravelly soil occurs in the west of the resource.

The resource typically has a grey sand overburden up to 100 mm thick over leached white silica sand grading to yellow sand. Yellow sand occurs more in the west closer to the laterite duricrust, with the leached white sand more common in the areas of lower elevation or areas that have been subject to leaching in the geological past.

The finer sand overlies discontinuous thin layers of coarser sand.

Under the sand is the sandy loam subsoils that are developed on the Cretaceous sediments.

The soils are well described in Marnham J R, G J Hall and R L Langford, 2000, Regolith-Landform Resources of the Cowaramup-Mentelle 1: 50 000 Sheet, Geological Survey of Western Australia.

# 4.3 Climate

The climate of the area is classified as Mediterranean with warm to hot summers and cool wet winters.

Temperatures are recorded at Witchcliffe, where the maximum temperatures in the hottest and coldest months, December to January and July, are 24 to 27 degrees C and 16 - 17 degrees C respectively. In winter the average minima drop to 8 degrees C in July.

Average annual rainfall for the area is 958 mm. Most of the rain falls during the winter months April to October inclusive. Evaporation exceeds rainfall in all but the wetter months.

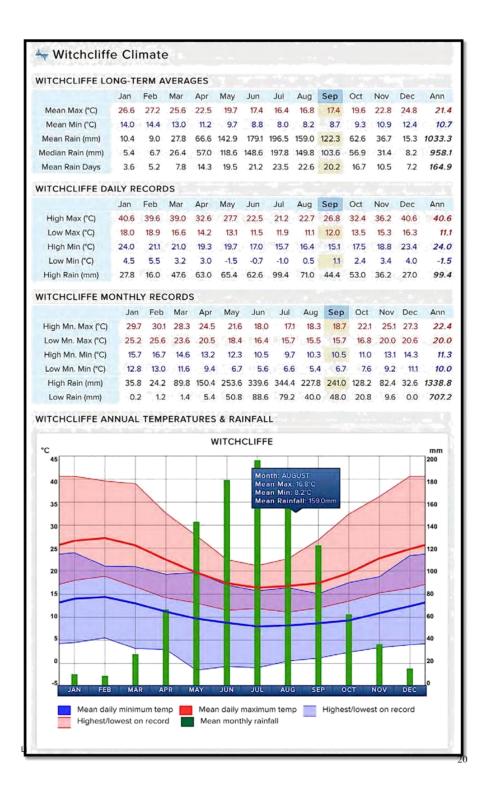
Wind direction is predominantly from the east in the morning and from the north west to south west in the afternoon during the summer months, with winter winds being lighter but having a component of strong winds in winter storms.



Figure 4 Photograph of the sand resource. The Peppermint Trees are to be retained

Attachment C

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# 4.4 Hydrogeology

### See Section 9.0 Water Management Plan

### Surface Water

There is no surface runoff of water on the sand resource due to the porosity and permeability of the sand, with precipitation draining to the water table.

Only the areas that are well above the water table have been selected for excavation. In summer the local soils dry out, but in winter the rate of precipitation wets the sand. There are no winter-wet conditions.

The site is not subject to any watercourses or flood paths but the headwaters of a creek originates to the north of the eastern portion of the pit, originating from water entering the overlying sands and then running along the more clayey basement of Cretaceous sediments. The setback to the headwaters of the creek are over 100 metres from the edge of the sand pit.

The surface water and superficial groundwater are the only relevant considerations for this proposal.

It is noted that the clearing of the former forest from Lot 101 will have led to significantly increased recharge and the formation of the creeklines which are more permanent features.

### Groundwater

There is generally no surface runoff of water from the sand due to the porosity and permeability of the sand, with precipitation draining to the water table. It has been estimated that 30% of the rainfall will reach the superficial aquifer with an unknown amount filtering into the deeper aquifers, based on the pasture on the sand.

The groundwater issues were considered by the Environmental Protection Authority in Bulletins 512, 788, 821 and 818, and whilst these do not specifically refer to the extraction of basic raw materials, and are for the Lake Clifton Catchment, they do consider the impact of clearing, planting trees and rural, residential developments. The figure the EPA used for recharge from native vegetation was 10-15% rainfall, whereas cleared land had a recharge of 30-40%.

Recharge from pasture is anticipated currently to be near 30% based on the vegetation and elevation above the water table. Recharge on excavated areas will also be in the order of 30% because of smaller separations to the water table based on the existing sand ridges accepting and retaining moisture from smaller rainfall events which do not reach the water table. (Environmental Protection Authority Bulletins 512, 788, 821 and 818). This will result in little change to recharge with excavation.

Department of Water 2010 Murray Drainage and Water Management Plan at Pinjarra places the transmissivity as 5-15 metres per day or around 9.2 metres per day for similar sand in a similar hydrogeological situation.

The infiltration rates ensure that the sand does not become saturated and no water exists in the resource sand areas.

The resource area is elevated with a shallow seasonal superficial water table perched at the top of the underlying Cretaceous sediments when the vertical infiltration rate is exceeded by the winter precipitation.

### 13.1 Attachment C

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The site sits within the South West Groundwater Areas Allocation Plan 200000 and lies in the Dunsborough – Vasse Subarea for Superficial and Leederville Formation. The underlying Yarragadee Aquifer will not be impacted.

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In reality it is only the Superficial Aquifer that is relevant to this proposal in terms of the depth to groundwater beneath the base of the sand pit.

There are no acid sulphate or salinity issues, with the soils and water being fresh and elevated in the landscape.

In the south west, the Department of Water South West Region Guidelines Water Resource Considerations for Extractive Industries permits a final land surface of 0.5 metres above the highest winter water table. The south west guideline is more applicable to this site than the guideline WQPN 15 because the end use of the land will be to continued agriculture use.

The excavation of sand from the site complies with the DOW South West guidelines and WPQN 15 and uses the management actions wherever there is environmental benefit.

The protection of surface and ground water from contamination by hydrocarbons is viewed by Margaret River Natural Resource as a critically important issue in managing its environmental responsibilities at this site. The company has examined this risk and adopted a range of policies and procedures to mitigate the impact of hydrocarbon spills on the environment. DWER has approved the attached Water Management Plan.

# 4.5 Vegetation

The resource area is cleared, to pasture with scattered regrowth but relatively mature Peppermint trees of about 20 in number. These trees are to be retained with a 10 metre buffer.

The main vegetation on site is the Jarrah Marri Forest remnant towards Gibb Road.

If any vegetation is to be cleared a Clearing Permit will be applied for.

# 4.6 Fauna

The fauna on site will already be significantly depleted by the clearing as there are just scattered Peppermint trees on site.

The proposal does not require the clearing of Black Cockatoo habit with the only vegetation to be impacted being isolated regrowth Peppermint.

- > The potential for impact on Possums is considered low for the following reasons.
- > The clearing of Peppermint trees is minimised.
- The existing Peppermint Trees are isolated and do not afford suitable habitat for Possums.
- Additional Peppermint Trees will be planted in clumps with wildlife linkages. 100 Peppermint trees will be planted to link the remnant Jarrah – Marri Forest west of the pit to the small creekline vegetation.

# **Explanatory Reports and Management Plans**

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# 5.0 PROJECT DESCRIPTION

# 5.1 Construction

#### Construction Time

The construction time will be minimal and will be mainly restricted to the construction of the transport route to Gibb Road.

The sand resource will be cleared and then excavated from the face. Any plant used on site will be mobile plant and will not require construction.

# 5.2 Excavation

Excavation methods are to be carried out as a sequence.

The whole resource area has been investigated using an excavator digging test holes on a grid pattern. The sand varies from yellow to white and from 1-3 metres deep with an average of 1.5 metres.

- Topsoil will be removed and recovered for spreading directly onto areas to be revegetated.
- If topsoil cannot be directly transferred it will be stored in low dumps at the
  perimeter of the excavation footprint.
- There will be little or no overburden, which will consist of subgrade sand.
- Overburden will then be pushed from the excavation area to provide perimeter bunding to assist in visual noise and dust management.
- Sand will be excavated from the floor of the pit to a depth of 1 3 metres with an
  average of 1.5 metres. Gravel will only be excavated in the west of the pit and
  constitutes a small resource of < 50 000 tonnes</li>
- The sand resource delineated comprises sightly over 150 000 tonnes.
- The sand to be used for fill will be loaded directly to road truck by loader. The
  loader will stay at the face and the road trucks will be restricted to access roads
  spreading out from the centre of the operational area. Drivers will be instructed to
  stay in their trucks within the loading area.
- The loader will work at the face, approaching the face in a perpendicular manner to enable the natural slump of sand to make the working face safe.
- Trucks will be confined to a dedicated ring road that will be moved as required as
  the face progresses. The trucks will approach in an anticlockwise direction so the
  driver is facing the loader. Drivers will be required to stay in their trucks while in the
  loading area.
- All vehicles will have radio contact.

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- Operations will occur on the floor of the pit with the face providing visual and noise screening to the closest residences. That is the pit will be orientated so that the face is located between the excavation area and nearby sensitive premises such as dwellings or chalets.
- It is also possible that some sand will be suitable as concrete sand for concrete batching. Any such sand will normally require screening to remove roots and other deleterious organic matter.
- At the completion of excavation, the final soil slope on the floor of the excavation
  will be flat and slightly undulating. The batters will be graded to ensure the final
  slopes form an interim stable land surface in compliance with the Mines Safety and
  Inspection Act (1994) and Regulations (1995) at 1:4 vertical to horizontal.
- Rehabilitation will progressively follow mining, wherever possible with completed areas of the excavation being revegetated as soon as practicable.

### 5.3 Pit Design and Staging

EXCAVATION	
Total area of excavation applied for, including the land already open	Proposed excavation – 20.94 hectares (approx.)
Rate of excavation based on average anticipated volumes.	Generally up to 20 000 tonnes per year of sand including a smal amount of gravel, with an anticipated maximum of 30 000 tonnes per year depending on contracts.  If a large contract is won which will require additional truck movements, Margaret River Natural Resources will notify the City at least one week in advance of the commencement of the contract.
Life of project	10 years
Area cleared per year	No native vegetation. < 1 hectare pasture required per year.
Dewatering requirements	Nil
Maximum depth of excavations	1 - 3 metres in benches as required.

A perimeter buffer of 20 metres with earth bunding is proposed for adjoining lots in compliance with Section 6.4 City of Busselton Policy 5A – Rural Areas land Use and Development Policy. That buffer will then be battered down to match the excavated area.

Excavation will continue down to an elevation of 1 to 3.0 metres, well above the highest winter water table which will be predominantly >2.0 metres above the superficial water table as the sand resource is located on the plateau ridge.

In the south west, the Department of Water South West Region Guidelines Water Resource Considerations for Extractive Industries permits a final land surface of 0.5 metres above the highest winter water table. The south west guideline is more applicable to this site than the guideline WQPN 15 because the end use of the land will be to continued agriculture use.

To maintain this type of operation normal methods of open cut excavation will be used which will require a sufficiently large footprint to enable haul roads to extend to the floor at suitable grades to ensure efficient and safe excavation conducted in a manner that minimises environmental impact.

The development of the pit will depend on the internal haul roads and access, efficiency, safety and environmental management. The footprint of disturbed ground is not proposed to be enlarged after allowing for progressive rehabilitation.

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The pit is anticipated to have a life of ten years.

#### Final Contours

For weathered materials such as sand, a recommended batter slope 1:4 vertical to horizontal will be established for the batter slopes with a gently undulating floor of the pit. As the pit will average only 1.5 metres deep the final land surface will be similar to the existing land surface except that it will be slightly lower.

The Peppermint trees on the resource area will be retained and therefore lead to a slightly undulating final surface. The trees will be provide with a 10 metre setback and batter slope.

The Concept Final Contours are shown on the attached plan which does not allow for the retention of the trees apart from in concept.

Rehabilitation will be progressive, but because of the nature of the excavation will be restricted to completed faces. The majority of the pit will not be able to be rehabilitated until the completion of excavation. Batters will be rehabilitated when formed.

Wherever possible, rehabilitation will be continued as areas are completed to ensure that the amount of ground that is open at any one time is minimised. As access is currently through the existing pit, rehabilitation of this pit is not possible at this time.

#### Geotechnical parameters

The final profile of the excavated surface will be to Mines Safety and Inspection Act 1994 as explained in documents such as Guidelines on Safety Bund Walls Around Abandoned Open Pits (DOIR 1991).

The sand pit has steeply sloping faces during excavation in compliance with the DMIRS face angles for sand excavation. These will be battered down to 1:4 vertical to horizontal as a geotechnically stable landform that can be used for agricultural purposes.

# 5.4 Processing

Much of the sand is sold as fill without any processing. Some sand may be screened.

When coarse sand is identified and extracted there may be the potential for a small wash plant to remove the fines from the coarse sand. The fines, which may contain organic matter, will then be used to assist with the restoration of the sand pit if available.

It is unlikely that the washing of sand will exceed 5 000 tonnes per year and if there is no screening Part (V) of the Environmental Protection Act may not be triggered.

A DWER Licence will be required under Part V of the *Environmental Protection Act 1986* for screening if the annual volumes exceed 5 000 - 50 000 tonnes. (Category 70 Prescribed Premises).

# 5.5 Stockpiles

Stockpiles may be needed for sand if the white and yellow sand and coarse sand is taken separately.

Stockpiles will only be required if the sand is screened and these will be located on the floor of the pit and be a maximum of 4 metres high, which, with the lowered elevation of the pit floor and perimeter bunding of topsoil, will mean that the stockpiles are not anticipated to be

### 5.6 Equipment

- The only facilities proposed for the site are a large shed for the storage of mobile plant and minor spare parts.
- Ablutions are to be a serviced portable system.

visible from Gibb Road and not visible from Gale Rad.

- · A loader will excavate sand and load the trucks.
- · An excavator will be used for higher faces and specialty work.
- A bulldozer is unlikely to be required but may be required to push down a face or other construction work.
- · Mobile screen to sieve the sand is required for specialty sands.
- · The only other vehicles are the road trucks
- Refueling will be conducted from mobile tanker in the pit. There will be no fuel stored on site
- · Major maintenance will continue to be conducted offsite.

### 5.7 Hours of Operation

Hours of operation will be 7.00 am to 5.00 pm Monday to Friday inclusive, excluding public holidays. This is similar to the operations of nearby quarries in the local area.

### 5.8 Access and Security

The access road from Gibb Road will be used for the transport of sand or to service the sand operations. That access point is for rural purposes only and will be required as an emergency exit or for farm purposes when sand extraction has been completed.

The site will be secured by locked gates when it is not being actively worked. The boundary fencing will be maintained to prevent inadvertent and unauthorised entry.

Warning signs for trucks will continue to be used to alert road users to the entrance onto Gibb Road. Maintenance of signage will be undertaken through the City of Busselton.

### Transport

Transport will be along Gibb Road north as outlined in the attached Transport Management Plan.

That access has been used for sand transport from the excavations on Lot 1. The scale and intensity of the transport will be similar to that previously conducted from Lot 1. Sand extraction on Lot 1 is complete with little sand being extracted so there is unlikely to be any cumulative impacts from the transport of sand.

Landform Research

Gibb Road is partially sealed at the northern end near dwellings and a vineyard. The remainder of the transport route is gravel with suitable traffic and width characteristics to enable for the transport of basic raw materials.

The number of truck movements will vary throughout the year depending on the size of contracts. To transport the required amount of sand a certain number of trucks must be used. See the attached Traffic Management Plan.

Road transport will use a variety of road approved vehicles such as rigid trucks, semitrailers or rigid (8) wheeler trucks to a 5 axle dog trailer.

With a calculated volume of sand of 200 000 tonnes and a ten year life of the operations that equates to around 20 000 tonnes of sand extracted every year, but due to the variable nature of contracts, up to 30 000 tonnes of sand is anticipated to be transported in any one year.

With an average truck size of say 25 tonnes that equates to up to 1 200 laden truck movements in any one year for 30 000 tonnes extracted. If sand was transported on 200 days of the year that equates to an average of 6 laden truck movements per day.

It is suggested that for a large contract the Shire of Busselton be notified at least 1 week prior to the commencement of a large contract and informed of the tonnages, likely truck movement and anticipated volumes to be transported during that contract. This process is used at other sand pits and provides the City with an opportunity to discuss any specific issues with the operator.

A road maintenance agreement will be determined with the City of Busselton based on the City of Busselton Planning Policy 5, Rural Land Use and Development Policy 2010.

Table 3 Seasonal Closure and Campaign Closure

	CLOSURE OBJECTIVE	Completion Criteria	Actions for Care and Maintenance Greater than 12 months
1.0 C	OMPLIANCE		
1.1	All legally binding conditions and commitments relevant to closure and rehabilitation will be met.	1.1	Prior to undertaking temporary closure.  ➤ Review the latest documentation.  ➤ Assess compliance with the conditions and commitments  ➤ Faces and the landform are to comply with DMIRS Safety Guidelines and be stable for the long term.
2.0 S	AFETY		be dual of the leng term.
2.1	Make the site safe.	2.1	Prior to vacating;  Secure the site and any plant or structures to be left.  Mobile plant and other equipment not required will be removed from site.  The site will be cleaned, structures will be removed.  Provide fencing, bunding, signage or other measures as required to provide a safe site, particularly above any faces.  Security  Complete activities to make the site safe.  Provide bunding and warning signs above faces as required.  Provide locked gates or log access restraints as required or maintain staff on site.  Check and maintain perimeter fences.  Visual audit of completed ground, to verify compliance.
	YDROGEOLOGY		
3.1	Ensure that there are no materials	3.1	<ul> <li>Remove fuel service materials.</li> <li>Remove any materials from which leaching may occur.</li> </ul>

Landform Research

Attachment C

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

	that could cause pollution or environmental harm.			
4.0 B	IODIVERSITY			
4.1	Minimise the risk to on site or offsite biodiversity.	4.1	Implement the Dieback Management Plan.     Implement the Weed Management Plan.     Inspect the site for Significant Environmental and Declared weeds. Treat accordingly     Inspect adjoining native vegetation and rehabilitation for edge weed effects. Treat accordingly.	
5.0 S	TAKEHOLDERS			
5.1	Ensure stakeholder issues are considered.	5.1	Prior to temporary closure, as necessary, consult with the relevant stakeholders to check whether the closure planning, where possible, considers their interests and carry them out as necessary. If care and maintenance continues modify procedures in response to changes in stakeholder position, policies or conditions.	

# 5.9 Water Use

There is not anticipated to be a significant requirement for water use. The only water use will be limited water as required or dust suppression on the access road and for washing coarse sand if sufficient sand is available.

It is unlikely that the washing of sand will exceed 5 000 tonnes per year and if there is no screening Part (V) of the Environmental Protection Act 1986 may not be triggered.

If washing is undertaken the sand will be washed with water supplied from the existing soak just north of the sand pit, with water returning to the superficial groundwater system through seepage into the basal soils with little evaporation or use.

Water will continue to be required for dust suppression. This is discussed under Dust Management in the Offsite Impacts Management Plan.

Separations to groundwater comply with DWER requirements of > 500 mm.

A rounded figure of 1 000 litres or 1 kL water use per day is anticipated based on past experience at other pits, for dust suppression. For 100 days of full water requirements in a year, considering the low extraction volumes, winter and other wet days, the water requirements are anticipated to be 1 000 kL of water for dust suppression annually. A Dwelling normally uses around 300 kL per year as a comparison.

### 5.10 Workforce

The workforce will vary, depending on the level of operation and market demands, but usually 2-4 persons will work on site plus truck drivers as they access the operations.

# 5.11 Safety

Excavation is conducted to *Mines Safety and Inspection Act 1994 and Regulations 1995*. Excavation practices, and operations procedures are in compliance with the Act. Health and safety issues are overseen by the Department of Mines Industry Regulation and Safety.

Every morning prior to start there is a daily briefing or consideration of the potential hazards, any incidents such near misses, health and safety and any other relevant issues.

#### Site Safety

Margaret River Natural Resources has procedures in place to manage safety, health, environmental impact, site completion and rehabilitation. All workers are required to wear full protective safety and high visibility gear when on site.

All vehicles have two way radio capability. No light vehicles are permitted on site without registering with mobile plant on site. Full personal protection is required for all persons on site at all times.

All personnel are provided with site induction, safety and environmental awareness training.

#### Emergency

The site is within mobile phone contact and all vehicles are equipped with two way radios.

- The loader will excavate from the face using an in out movement, only approaching
  the face from a perpendicular movement which is the safe option. The face will be no
  higher than the reach of the bucket, unless the sand free falls at the angle of repose in
  which case the face can be higher. For higher faces, benches or an excavator will be
  used.
- Personal protection is worn by all persons on site, with a minimum of hi viz, safety boots, long clothing, hearing and eye protection and helmets when near the face or operating machinery.
- Road trucks are separated from the operating loader. Site warning signs and directions will be installed as required to maintain safety.
- · Safety bunds or temporary fences will be used above any active vertical faces.
- · Warning signs are maintained as required.
- Emergency preparedness plans will be developed and implemented.
- Staff and contractors are inducted and trained as necessary and have the relevant qualifications to fulfill the tasks they are assigned to.
- Where applicable Safe Operating Procedure Sheets are made available for hazards.
   Workers and staff on all sites are trained in the use of the procedures and all employees provided with site induction and training as necessary prior to commencing work on the site.

### **Emergency**

- The site is within mobile phone contact.
- · Safety management and operating procedures will be implemented.

### Fire Management

The excavation area will form a natural firebreak; the access road will also assist. Water available on site can be used for fire fighting.

### Attachment C

# **Explanatory Reports and Management Plans**

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The safety of workers is managed through a Safety Management Plan developed through the Mines Safety and Inspection Act 1994 and Regulations 1995.

Normally developments in bushfire areas are required to have fire management plans in

Western Australian Planning Commission Planning Bulletin 111/2016 provides for an exemption of a bushfire plan requirement because there will be no structures that will burn and the open ground will form a fire break. It also provides for an exemption where the proposed activity is a continuation of existing activities. This applies to this continuation of sand extraction.

The Department of Mines Industry Regulation and Safety, SRS and PMP systems, with the registration of all quarries, requires bushfire planning to be covered under that system. The PMP (Project Management Plan) will be required to be produced and approved prior to excavation being commenced.

The management actions that are used to minimise fire risk are summarised below.

- Vehicles will be restricted to operational area, particularly on high fire risk days.
- Diesel rather than petrol powered vehicles are used.
- Perimeter fire breaks will be maintained for Lot 101.
- The mobile plant on site will be available to assist with emergency fire management when safe to do so.
- Fire risk is addressed and maintained through the site Safety Management Procedures (Project Management Plan)
- Water supplies will be drawn from existing farm supplies with the proposed dam to
- The farm fire fighting unit is available for fire management.
- The site is secured from unauthorised access by maintaining the existing fencing and locked gates.
- Public access will not be permitted.
- An emergency muster area is provided.
- On site communications and worker induction and training will be provided.
- The site is within mobile phone range, the surrounding area is relatively flat and any bushfire smoke will readily be noticed.

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# 6.0 DUST MANAGEMENT

### 6.1 Environmental Dust

### Background

Excessive dust has the potential to impact on both the workers and the adjoining land, and its potential for generation must be taken in context.

There are a number of key aspects to dust impacts;

- · What is the source of particles?
- What is the potential for the particles to be disturbed?
- · What is the nature of the particles and how are they likely to behave?
- What types of impacts are the particles likely to have if they move?
- · What management actions can be used to mitigate or reduce dust impacts?

Most dust on site will be generated during vehicle movements.

Commonly called "dust," scientists and regulators refer to the term particulate matter (or PM) to describe the range of particles that exists in the air breathed in.

Particulate matter exists naturally in the atmosphere, eg sea-salt spray and pollens. PM can be increased due to human activities such as vehicle exhaust, industrial processes, power stations, mining, farming and wood heaters, or smoke from bushfires.

Exposure to PM can be associated with health and amenity impacts if the exposure is excessive.

The likely risk of these impacts depends on a range of factors including the size, structure and composition of the PM and the general health of the person.

Particulate matter needs to be suspended in the air to carry any distance. The particles must be smaller than sand grains, which will only carry short distances because the grains are too large to move at any more than bouncing. The particles that are able to be suspended are called Suspended Particulate Matter and the total amount of that is referred to as TSP.

### Research

Little published data is available from general mining in Western Australia even though monitoring is undertaken at some sites. There is data specifically from mining, (predominantly coal) from New South Wales (NSW Health) where particulate levels have been measured to be;

PM <2.5 microns as 2-5% of emissions (One micron is 1 / 1000 of 1 mm).

PM< 2.5 are invisible and called "fine particles". They are the main health issue and are caused by vehicle emissions whether they are along roads or on private land. Vehicle emissions will not occur at night or at other times when the site is not active.

PM 10 (particles between 2.5 and 10 microns) are invisible and called "coarse particles". They can be breathed in, but are removed by alveoli and mucous. (NSW Health). This dust may be generated when land is cleared and topsoil disturbed or the site is subject to traffic in summer.

PM>10 microns as 50 - 70%

PM>10 is visible dust and will, based on the resource, be the vast majority of the particles.

Normally all sizes of dust are generated together, and there will be visible dust being generated when invisible dust is being formed. Therefore any visible dust present is a good sign and early indicator of a dust risk. A summary of the sources and proportions of dust is shown in; NSW EPA and NSW Ministry of Health Environmental Health Branch 2015, Review of the health impacts of emission sources, types and levels of particulate matter air pollution in the ambient air in NSW.

This is backed up by occupational monitoring through the Department of Mines Industry Regulation and Safety. Unpublished data from those quarries shows quarries are compliant or can readily be made compliant with the health and safety and community standards through normal dust management practices. See Section 1.4 Occupational Dust.

In Australia the research relates mainly to coal mines, but new research relating to the drilling of natural stone – rock quarries provided good data generally. Whilst there is no drilling and cutting on this site there is data in the research for the carry of the particles which is relevant.

Sairanen M and O Selonen, 2018, Dust formed during drilling in natural stone quarries, Bull. Eng. Geol. Environ. 77:1249 to 1262.

That research found that the particles generated from the quarries tested were PM>10 microns or greater. The PM<2.5 microns almost totally originated from external sources and vehicles, and not the actual grinding of the rocks.

The other key findings were that for coarse particles (Total suspended particles – TSP and PM10, the mass concentrations of the particles decreased rapidly in all directions with most pronounced decreases upwind and at 50 metres the concentration mass was "barely distinguished from the altering median level". The same was also found for the fine particles PM 2.5 to PM1.0.

That drop off was also correlated to the visual appearance of dust. That is there was no visual dust past 50 metres and that was confirmed by the sample results. Background "concentration was attained 69 – 90 m for coarse particles and at 55 – 105 m distance for fine particles".

For the quarry haul road dust, the background concentration of dust was reached at a distance of 30 metres. This quantifies the potential dust impacts from roads.

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### Sand Quarry - minor Gravel Extraction

Sand excavation is at the lowest risk from dust, producing very little dust material, with the exception of the vehicle dust generated from unsealed roads and the dust from fine clays within the sand that can be disturbed by vehicles movements when dry. The sand particles are comparatively large and only move in stronger winds by bouncing to about 300 - 500 mm above the ground surface when dry and are readily stopped by any vegetation, even pasture.

The main particles on site are large sand grains, which are not mobilised to the atmosphere and cannot be breathed in. The small amounts of fine clay and other particles from roads are "coarse particles" and do not provide a significant health risk even if generated.

For this operation the main transport routes (Northern portion of Gibb Road and beyond) are sealed and it is only the portion of Gibb Road near the resource and access road to the site and the internal roads that are not sealed but are wetted down as required.

With the pit being over 500 metres from dwellings there is a negligible risk to dwellings as shown by the DWER assessment score. See Table 5 below.

Occupational dust associated with the quarrying processes falls under the *Mines Safety* and *Inspection Act 1994* and *Regulations 1995* overseen by the Department of Mines Industry Regulation and Safety who regularly inspect the site.

#### Tree Belt - Buffers

Dust particles are readily stopped by tree belts and distance, with which the site complies. Tree belts slow the wind and allow the dust to settle. See *Planning Guidelines Separating Agricultural and Residential Land Uses, Department of Natural Resources Queensland* 1997( Pages 65 – 111) and Department of Health WA, 2012, Guidelines for Separation of Agricultural and Residential Land Uses which uses the same criteria (Pages 112 – 118).

The Queensland Guidelines predominantly relate to agricultural spray drift, but based on particle size also relate to dust.

The Guidelines provide for a buffer of 300 metres for open agricultural land, dropping down to 40 metres where an effective tree belt is in place. The Western Australian Department of Health also uses the same guidelines. These buffer distances for spray drift are greater than that required for dust particles as shown by Sairanen M and O Selonen, 2018, with the buffers of 30 metres for roads and 100 metres for the pit.

The Guidelines are based on field studies and demonstrate the effectiveness of tree belts and distance in providing screening against particulate travel.

A minimum of 500 metre buffer distances is available for dwellings from the sand pit, which complies with the Guideline and the Queensland, Health Department and research. In addition there are scattered and clumps of trees in the intervening space.

there are scattered trees in the intervening space that will assist in slowing wind speed.

The average number of laden trucks per day will be 6 with 6 unladen truck movements in.

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# 6.2 Assessment of Dust Risk

### **Dust Guidelines**

Dust management is an integral part of the extraction and processing of any basic raw material.

The most common form of disturbance is by mobile plant and vehicle impacts. In this local area dusty roads have the most potential to produce dust, such as the access road which is no different to any other local unsealed road.

The potential for dust emissions falls under the *Guidance for the Assessment of Environmental Factors, EPA, March 2000.* Assessments of the potential dust risk are normally made using the Land development sites and impacts on air quality, *Department of Environmental Protection and Conservation Guidelines, November 1996.* 

These guidelines are still in place but are incorporated into the DEC (DER) 2011 Guideline for Managing the Impacts of Dust and Associated Contaminants from Land Development Sites, Contaminated Sites Remediation and other Related Activities.

The DEC (DER) in 2008 released a draft Guideline for the Development and Implementation of a Dust Management Plan.

Even so a dust risk assessment has been completed using the DEC (DWER) 2011 Guideline.

Table 4 Dust Risk Assessment from DWER (DEC)

PART A Number	Item	
		Score
1	Nuisance potential of the material	Low for excavated material and with dust control in place - 2
2	Topography and vegetation screening	Screened and sheltered - 1
3	Area of site activities	Active trafficked areas at any one time are 1 - 5 hectares in area - 3
4	Type of work being undertaken	The small scale of excavation is equivalent to partial earthworks - 6
	Summer total without dust measures	Maximum = 12

PART B Number	Item	
		Score
1	Distance to premises	Premises between 500 to 1000 metres - 6
2	Effect of prevailing wind	Isolated premises affected by one wind direction The premises is not really affected, not in the path of prevailing winds which are easterly and south westerly - 1
	Total Part B	Maximum = 7

Activity	Calculated Score	Allocated Risk of Dust
1	Part A x Part B	

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Excavation with or without dust	Maximum	Classification 1
suppression.	Premises = 12 x 8 = 84	Negligible Risk,
		The actions and contingencies proposed are consistent with the DWER Policy Dust management will be required for pit best practice and worker environment.

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# 6.3 Buffers

The sand operations comply with the EPA Generic Buffers for sand excavation and the Health Department and research. See Section 6.1.

# 6.4 Occupational Dust

There is very low risk from occupational dust to workers on site, and if dust levels on site are low they are also low offsite.

# 6.5 Actions and Management

Table 5 Dust Management

ACTIVITY	POSSIBLE RISK SEVERITY and FREQUENCY	OPERATIONAL PROCEDURES AND COMMITMENTS	RISK AFTER MANAGE MENT
EARTHWORK			
Land Clearing, construction earthworks and building the bund	Low - Occasionally to open new ground	This involves removing the topsoil for use in revegetation and topping the screening bunds, followed by removal of the overburden.  Clearing will be conducted to only remove the area required for immediate mining to expose the resource and construct the operational features.  If winds are sufficiently strong, or other weather conditions are unacceptable to negate the effects of dust management, operations will cease until conditions improve and compliance can be achieved.  Visual monitoring of the visual dust is the best and fastest method of monitoring dust risk and dust generation and faster response can be achieved than alarms or monitors. If visual dust is significant then smaller particles may also be present.	Low
Land restoration	Low - Once per year or less frequent	Land restoration is infrequent and normally conducted only once per year.     Scheduled activities such as ripping, overburden and topsoil spreading will be conducted at times of low dust risk	Low
EXCAVATION	- PROCESSING		
Excavation	Low - Frequent	There are no changes to the sand excavation methods. Sand excavation is moving away from the dwelling to the north Excavation will be conducted on the floor of the pit to provide maximum shelter for dust protection. The treed buffers to the north provide compliance with Government Guidelines.	Low
Loading and stockpile creation	Low - Frequent and in campaigns	Few stockpiles are used.  Loading from the face produces little dust and is covered under excavation.	Low

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Transport	Low - small numbers	It is noted that the average number of laden trucks per day will be 6 with 6 unladen truck movements in.     All loads will be covered. (No tarp of cover – No load).	Low
Road condition	Low - Frequent	The access road is sealed. All loads for transport outside the pit are covered. The access road and crossover are maintained in good condition (free of potholes, rills and product spillages). Gibb Road is maintained by the City of Busselton for small potholes and by the City for more major works. An agreement for road maintenance will be discussed with the City of Busselton and a contribution to maintenance provided as assessed during the discussion.	Low
Health and Amenity		<ul> <li>A readily auditable trigger of no visible dust to cross the property boundary with the exception of the western – south western boundary where there are no nearby dwellings, in line with DWER Licence and best practice in WA.</li> <li>The research (Sairanen M and O Selonen, 2018) has demonstrated that visual assessment of dust agrees with the measured concentrations of dust.</li> <li>The trigger for dust management is the generation of visual dust.</li> <li>The loader operator will determine the amount of dust being generated and they are in the best position to assess dust generation and to direct remediation.</li> <li>On site induction training will include observation and mitigation where possible of all dust emissions.</li> <li>Occupational dust associated with the quarrying processes falls under the Mines Safety and Inspection Act 1994 and Regulations 1995 overseen by the Department of Mines Industry Regulation and Safety who regularly inspect the site.</li> <li>Included in the program are personal dust monitoring assessments. If on site dust is managed, offsite dust risk is also managed.</li> <li>Operations will temporarily cease if conditions occur where dust cannot be managed.</li> <li>The latest weather conditions to increase the awareness of dust risk.</li> </ul>	
Complaints		All complaints relating to dust are to be investigated immediately on receipt of a complaint.     A record of all dust complaints is to be maintained together with the mitigation measures to be used to reduce the dust impacts.	

# 6.6 Dust Monitoring

Most dust generated from processing and vehicle movements has a very large visible component.

The loader operator is in the best position to assess dust and implement management to mitigate or reduce the dust risk and generation.

Human monitoring can detect potential dust risks prior, and take action prior, to significant dust being generated. They notice dust immediately such as from tyres, whereas machine monitoring has to rely on significant dust being generated, travelling to the boundaries of the premises and triggering an alarm. The operators would be negligent if they let the dust get to that level of impact prior to taking action. (The research by Sairanen M and O Selonen, 2018 demonstrates that visual assessment of dust agrees with the measured concentrations of dust).

The auditable condition is visible dust crossing the boundary of the premises; the lot boundary. A readily auditable trigger of no visible dust to cross the property boundary with the exception of the western – south western boundary where there are no nearby dwellings, in line with DWER Licence and best practice in WA.

# Attachment C

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This is the condition used on Department of Water Environment Regulation Licences and all other quarries such as sand and hard rock quarries in Western Australia and has worked well in the past.

It is also the method used by the Department of Mines Industry Regulation and Safety to rapidly assess occupational dust on site.

All operators on site are instructed to be vigilant to dust generation and management and report any excessive dust or potential dust management issues.

Visual monitoring is even more effective when complemented by an extensive reporting and complaints process and this is used.

The effectiveness of the dust management is shown by no complaints regarding dust normally being received. No complaints are known relating to dust from excavation within the past five years.

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#### 7.0 NOISE MANAGEMENT

#### 7.1 Operations

Noise Management is designed to comply with Best Practise, such as Institute of Quarrying Australia/Queensland Government, Noise Management.

#### 7.2 Regulatory Framework

Noise can originate from a number of operations and may impact on onsite workers, or travel offsite and impact on external sensitive premises. Both potential noise impacts are addressed by reducing the noise generated from the quarrying and processing operations.

Offsite noise is governed by the Environmental Protection (Noise) Regulations 1997.

The Environmental Protection (Noise) Regulations 1997, require that sensitive premises including dwellings in non industrial and rural areas, are not subjected to general noise levels (excluding blasting), during the hours 7.00 am to 7.00 pm Monday to Saturday that exceed 45 dBA. Allowable noise to 55 dBA is permitted for up to 10% of the time and to 65 dBA for 1% of the time. Noise levels are not to exceed 65 dBA during normal working hours.

Between 9.00 am and 7.00 pm on Sundays and Public Holidays, and between 7.00 pm and 10.00 pm on all days, the base level is 40 dBA.

At night, between 10.00 pm and 7.00 am Mondays to Saturday, and before 9.00 am on Sundays and Public Holidays the permitted level drops to 35 dBA.

The 10% and 1% "time above" allowances apply at night and on Sundays and Public Holidays as well.

There are penalties for tonality of 5 dB, modulation 5 dB and 10 dB for impulsiveness, that are added to the permitted levels. That is, if the noise is tonal or modulated the permitted levels drop by 5 dB. Impulsiveness is not likely to be relevant for the quarry under normal circumstances.

The Noise Regulations provide for Construction Noise exemptions to enable construction of the site such as the building of the screening bund and opening the pits.

Influencing factors that raise the allowable noise levels are activities such as external industrial noise, some nearby land uses and busy roads. These are not relevant to this site.

Under Schedule 1 of the Noise Regulations the premises on which the extraction of basic raw materials are extracted, is classified as Industrial Land for the purposes of calculating influencing factors. This was defined as the whole cadastral boundaries in State Administrative Tribunal decision {2013} WASAT 139, Bushbeach v City of Mandurah. In this case the premises is quite small and approximates the area of disturbance and will have little impact on the influencing factors.

At a distance greater than 15 metres from the sensitive premises (eg dwelling), and commercial premises, a base level of 60 dBA applies at all times, with the 10% time permitted to be up to 75 dBA and the 1% permitted to be up to 80 dBA. For industrial premises the base level is 65 dBA at all times with the 10% time permitted to be up to 80 dBA and the 1% permitted to be up to 90 dBA.

# 7.3 Environmental Noise Management

The types of equipment proposed to be used are listed below. Not all plant will be on site at any one time and that provides for contingencies to reduce the operational noise on site if necessary at certain times.

Based on the experience of Landform Research and the operation of many other sand quarries the proposed sand excavation will easily be able to comply with the Noise Regulations at the closest dwellings.

#### Anticipated equipment required for the production of the various resources are.

Equipment	Sand Extraction
Rubber tyred loader (Komatsu WA 430 or similar)	Loading sand from the face
Semi trailer or other road trucks	Transporting product
Excavator	Operating at the face in the of the pit
Mobile screen	Small screen may be used to operate occasionally in the centre of the pit for screening sand for specialty uses
Bulldozer	May be required, occasionally to push down the top sand resource or lower the faces.

Table 6 Noise Management

OPERATIONAL PROCEDURES	COMMITMENTS	MANAGED RISK
Comply with the Environmental Protection (Noise) Regulations 1997.	Margaret River Natural Resources is committed to continued compliance with the Regulations.     The proposed operations are designed to comply with the EPA generic buffer distances	Noted
<ul> <li>Maintain adequate buffers to sensitive premises.</li> </ul>	<ul> <li>It is noted that the average number of laden trucks per day will be 6 with 6 unladen truck movements in.</li> </ul>	Low
<ul> <li>Locate exposed features behind natural barriers and landform.</li> </ul>	<ul> <li>It is noted that the average number of laden trucks per day will be 6 with 6 unladen truck movements in.</li> </ul>	Low
Maintain all plant in good condition with efficient mufflers and noise shielding.	This is used and is committed to. All plant is to be maintained in sound condition.	Low
Maintain haul road and hardstand surfaces in good condition (free of potholes, rills and product spillages) and with suitable grades.	No changes to the access roads are proposed.     See dust management	Low
Implement a site code outlining requirements for operators and drivers for noise management.	<ul> <li>A site code is to be implemented and Margaret River Natural Resources is committed to site induction and training for all personnel for all parts of the operations.</li> </ul>	Low
Shut down equipment when not in use.	Shutdown is used to save fuel and maintenance costs in addition to noise minimisation.	Low
<ul> <li>Fit warning lights, rather than audible sirens or beepers, on mobile equipment</li> </ul>	Lights or low frequency frog beepers are to be used rather	Low

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wherever possible.	than high pitched beepers to restrict noise intrusion.	
<ul> <li>Provide a complaints recording, investigation, action and reporting procedure.</li> </ul>	<ul> <li>A complaints recording and investigation procedure is proposed and will be implemented and maintained.</li> </ul>	Low
Provide all workers with efficient noise protection equipment.	<ul> <li>All personal noise protection equipment will be provided to staff as required.</li> </ul>	Low
Minimise and conduct at the least disruptive times.	Quarrying is to be conducted during the approved working hours.	Low

#### 7.4 Occupational Noise

Occupational noise associated with the quarrying processes falls under the Mines Safety and Inspection Act 1994 and Regulations 1995.

The management of occupational noise is normally handled by providing all necessary hearing protection, as well as conducting worker inductions and educational programs for all staff. Regular site audits of quarry and mining operations are normally conducted by the Department of Mines Industry Regulation and Safety.

As part of its commitments, Margaret River Natural Resources are pro-active with its worker safety awareness;

- > by providing all necessary safety equipment such as ear protection,
- > identifying sections of the plant where hearing protection is required, as well as,
- conducting induction and educational programs for its staff.

Warning signs are used to identify areas of potential noise associated with mobile plant.

The DMIRS will conduct inspections of all quarries.

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#### 8.0 VISUAL MANAGEMENT

There are a number of management actions that can be taken in quarries to minimise visual impact and these will be used wherever possible. The general management actions are summarised below together with the visual impact issues that relate to this site. The actions will be used where applicable and as the opportunity presents to minimise visual impact.

Guidance on visual impact is contained in *Department of Planning*, 2007, *Visual Landscape Planning in Western Australia (DoP 2007)*. Guidance can also be found in *Forest Commission of Victoria*, *undated*, *Landscape Types of Victoria*.

The pit is set back a minimum of 470 metres from Gibb Road behind a significant buffer of trees and rehabilitated land, with the remainder of the pit over 500 metres away.

To assess the potential for the site to be visible the local roads of Gibb and Gale Roads were driven to determine the potential for the pit to be seen. Google Earth Pro was then used to generate sight lines from the pit back to the nearby land uses and from Gibb Road back towards the pit.

The pit is not identified as being significantly impacted by viewsheds apart from a very small area in the north west of the pit, if the intervening trees were not in place. However in that location there is considerable vegetation within the road verge of Gibb Road which will protect the views of the pit. In addition steps are taken during excavation to mitigate or minimise view impacts.

Visual Impact can occur in a number of circumstances, by the operation being set too high in the landscape, by being too close to neighbours and by insufficient visual protection.

There are a number of management actions that can be taken in quarries to minimise visual impact and these will be used wherever possible. The general management actions are summarised below and are used where applicable and as the opportunity presents to minimise visual impact.

- The quarry is located on the top of a natural plateau ridge which minimizes the viewsheds.
- The pit is almost all 500 metres plus from Gibb Road
- · The pit is at a distance, behind natural barriers of the pit and the intervening trees.
- Excavation will take place from the floor of the pit below natural ground level
- The access road is at low elevation and truck movements are not visible.
- Overburden and interburden dumps are pushed into positions where they will form screening barriers, particularly to the west, north west.
- Progressive rehabilitation of all completed, excavated or disturbed areas will be implemented.

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#### 9.0 WATER QUALITY MANAGEMENT

#### 9.1 Water Source Protection Areas

Department of Water Environment Regulation – South West Region Guideline –Water resource considerations for extractive industries apply to this site.

The excavation on Lot 101 complies with DWER Guidelines for water management and separation to the groundwater of > 2 metres in most situations and at all times 0.5 metres (500 mm), for all other areas including the edge of the low lying areas.

### 9.2 Water Requirements

The pit is relatively small with short access roads and operated intermittently in campaigns.

The water requirements are anticipated to be minimal and sourced from farm supplies. In most cases dust suppression will not be required.

Around 1 000 kL per year is to be used for minor dust suppression and for washing product.

Whilst to wash any product will pump more water, with little evaporation the water will be seep back to the superficial water table.

The proposed operation complies with all Government Policies and Guidelines.

Potable water is brought to the site as needed.

#### 9.3 Water Quality Protection Guidelines

All facilities and procedures on site are designed to comply with the DWER – DMIRS Water Quality Protection Guidelines for Mining and Mineral Processing and are all complied with:

- > Minesite stormwater
- > WQPN 15 Extractive Industries near sensitive water resources
- Department of Water Environment Regulation South West Region Guideline Water resource considerations for extractive industries.

#### 9.4 Surface Water

The sand resource is located on plateau sand ridge which rises from around 68 metres AHD to 74 metres AHD. The sand resource is separated from the headwaters of the small creekline by 100 metres. The site lies within the Geographe Bay Rivers Surface Water Area. See the attached Updated Water Management Plan.

#### 9.5 Groundwater

See also section 4.4 Hydrogeology.

The resource area is elevated with a shallow seasonal superficial water table perched at the top of the underlying Cretaceous sediments when the vertical infiltration rate is exceeded by the winter precipitation. Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

Excavation will continue down to an elevation of 1 to 3.0 metres, well above the highest winter water table which will be predominantly >2.0 metres above the superficial water table as the sand resource is located on the plateau ridge.

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The water table measurements taken on 14 November 2018 and 6 September 2019 show that the sand resource is approximately 2.0 metres deep in the south east and centre thickening to 3.5 metres deep in the north west. With a separation of 0.5 metres to the water table the thickness of resource will be 1-1.5 metres in the east and centre and up to 3.0 metres in the west. Gravel resource occurs in the north west with the sand.

In the south west, the Department of Water South West Region Guidelines Water Resource Considerations for Extractive Industries permits a final land surface of 0.5 metres above the highest winter water table. The south west guideline is more applicable to this site than the guideline WQPN 15 because the end use of the land will be to continued agriculture use.

Around 1 000 kL per year is used for minor dust suppression and is to be sourced from a soak at the headwaters of the small creekline. See the attached Updated Water Management Plan.

#### 9.6 Salinity

Precipitation falling on the site is fresh.

The groundwater obtained from the bore on site is fresh and there is no likelihood of significant or other salinity increases apart from minor evaporation, which is no different from any garden.

The existing bore provides a monitoring point for water quality.

The groundwater is not exposed, apart from a small sump in the base of the pit to act as a water source.

#### 9.7 Dewatering

No dewatering is proposed. All water is to be retained in the pit and infiltrates into the sand.

#### 9.8 Recharge

The area has no surface drainage because of the permeable and porous nature of the sand. There is no surface drainage from the excavation site. All excess water infiltrates the permeable sand.

There will be no alteration to drainage lines, and neither surface water nor ground water will be affected. On closure the surface will continue to be free draining to the water table.

The resource area is pasture and will be returned to pasture.

The groundwater issues were considered by the Environmental Protection Authority in Bulletins 512, 788, 821 and 818, and whilst these do not specifically refer to the extraction of basic raw materials, and are for the Lake Clifton Catchment, they do consider the impact of clearing, planting trees and rural, residential developments. The figure the EPA used for recharge from native vegetation was 10-15% rainfall, whereas cleared land had a recharge of 30-40%.

It is noted that the clearing of the former forest from Lot 101 will have led to significantly increased recharge and the formation of the creeklines as more permanent features.

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Recharge from pasture is anticipated currently to be near 30% based on the vegetation and elevation above the water table. Recharge on excavated areas will also be in the order of 30% because of smaller separations to the water table based on the existing sand ridges accepting and retaining moisture from smaller rainfall events which do not reach the water table. (Environmental Protection Authority Bulletins 512, 788, 821 and 818). This will result in little change to recharge with excavation.

#### 9.9 Acid Sulfate Risk

Definitive survey procedure is produced in *DEC (DWER) 2013, Identification of Acid Sulfate Soils and acidic Landscapes* and within document *Acid Sulfate Soil Management Advisory Committee NSW, 1998, Acid Sulfate Manual.* This information forms the basis for much of the assessment procedures in Australia, including those adopted by the Western Australian Planning Commission and the Department of Environment Regulation.

The main method of assessment is based on geological examination. If at risk conditions are identified than laboratory testing may be required but must be completed carefully because there is a high risk of false positives with the available testing regimes.

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

Acid Sulfate is a natural phenomena, that can be exacerbated by disturbance. For it to be present there needs to be;

- > 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.

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

The site has been inspected by Lindsay Stephens of Landform Research and the resource area tested with excavation test holes to 3.0 metres depth. None of the at risk parameters occur on site.

On site the soils are yellow sands that are oxidised and do not carry any risk of acid sulphate potential. Some minor iron induration is encountered in the faces of the pit, generally below the proposed base of the pit.

This concurs with Nattaporn-Prakongkep, R J Gilkes, B Singh and S Wong, 2011, Mineralogy and chemistry of sandy soils in the Perth metropolitan area of the Swan Coastal Plain, Department of Environment and Conservation who concluded that there is no risk of acid sulfate soils in sands unless there is peat or organoferricrete present and excavation proceeds below the water table. In such situations no testing would be required because there is no risk. None of these conditions are encountered.

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#### 9.10 Unauthorised Access and Illegal Dumping

- The potential for rubbish to be dumped relates to unauthorised access to the site.
   Access is restricted by current farm fencing and locked gates. The pit is 500 metres from the nearest road.
- Wastes generated from on site operational activities will be recycled wherever possible and periodically disposed of at an approved landfill site.
- Any illegally dumped materials are to be removed promptly to an approved landfill or other suitable site, depending on the nature of the material.

#### 9.11 Wastewater Disposal

A serviced portable toilet is proposed to be in place while the site is operating. Serviced means they are pumped out by a licensed contractor.

#### 9.12 Refuelling - Copied from the attached Updated Water Management Plan

Fuel management will be in accordance with the relevant guidelines. The methods to be used are summarised below.

Documents specific to the fuel and maintenance are the DOW - DMIRS Water Quality Protection Guidelines for Mining and Mineral Processing

- WQPN 60 Tanks for mobile fuel storage in PDWSAs.
- > WQPN 15 Extractive Industries updated 2019.
- Department of Water Environment Regulation South West Region Guideline Water resource considerations for extractive industries.

#### Refuelling - Fuel Management Plan

- There will be no onsite fuel storage. The loader will continue to be refuelled on site from a mobile tank or tanker. This method is used on most mine and construction sites as well as many farming properties.
- Refuelling on site will occur in the active pit area to allow for containment if any spill did occur.
- The main risk of contamination is the minor drips that occur during the removal of hoses etc. Minor spills are quickly degraded by soil microbial matter.
- The only other risk is from a tank rupture, but tanks are designed to manage this
  eventuality and are approved to the relevant standards. Soil contaminated by large
  spills will be removed from the site to an approved disposal area.

- The operators of the mobile refuelling facilities are trained in re-fuelling duties including the management of any spills.
- In the event of a spill or adverse incident, activities will be stopped in that area until the incident is resolved.
- Spillage will be contained in plant and working areas by shutting down plant or equipment if the plant or equipment is the source of the spill (provided it is safe to do so). The sand will provide high absorbency and will retain any spill.
- Soil contaminated by spills will be removed from the site to an approved disposal area.
- All significant adverse incidents (such as a fuel spill of >5 litres) in one dump, are to be recorded, investigated and remediated. A record is to be kept of incidents, and DWER, and City of Busselton notified within 24 hours of an incident.

#### 9.13 Servicing and Maintenance - Copied from the attached Updated Water Management Plan

Documents specific to the fuel and maintenance are the DWER Water Quality Protection Guidelines for Mining and Mineral Processing

WQPN 15 - Extractive Industries updated 2019.

The main risk of contamination comes from tank or hose rupture on earth moving machines.

- All major servicing of vehicles will be conducted off site.
- The loader will continue to be parked at a secure site at night and minor servicing will be conducted there.
- Regular inspections and maintenance of fuel, oil and hydraulic fluids in storages and lines will be carried out for wear or faults.
- In the event of a small service item being required during operations, such as lubricating
  and maintenance activities, these will be carried out in designated areas in the pit.
  Equipment for the containment and cleanup of spills is to be provided as required.
- Waste oil and other fluids derived from the routine maintenance of mobile machinery, will be transported off site and disposed off at an approved landfill site.
   Grease canisters, fuel filters, oil filters and top-up oils are stored in appropriate containers in a shed or brought to the site as required.
- If any spillage occurs it will be contained in the plant and working areas by shutting down plant or equipment if the plant or equipment is the source of the spill (provided it is safe to do so).
- Accidental spill containment and cleanup protocol will be implemented as necessary.
- Non essential or old operating plant and materials will be removed from the site. Locked gates and the existing fences will be maintained to prevent illegal dumping and contamination of water.

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- There will be no waste disposal on site. Wastes generated will be recycled wherever possible and periodically disposed of at an approved landfill site. Any waste materials derived during routine maintenance activities will be stored in appropriate sealed containers within a designated storage area or taken from site and disposed of at an appropriate facilities. approved facility.
- Regular inspections (at least weekly) are conducted to ensure no wastes, litter and the like are present in or around the excavation and processing area.

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#### 10.0 BIODIVERSITY

#### 10.1 Flora

The excavation area is cleared and will be returned to pasture and productive agricultural land of pasture.

There are about 20 Peppermint Trees on the resource area, If these are to be cleared a Clearing Permit will be applied for prior to clearing. At this time it is not proposed to clear the Peppermint trees, but rather excavate around the trees, leaving a 10 metre buffer to each tree.

The creekline is dominated by Taxandria linearifolia regrowth and colonisation.

If cleared, to compensate and to provide an offset, 100 Peppermint Trees (*Agonis flexuosa*) will be planted in clumps between the remnant Jarrah Marri Forest that is closer to Gibb Road and the small creekine. This will create a habitat for Ringtail Possums which is not currently available because the existing Peppermint Trees are scattered and isolated and will not currently provide suitable habitat for the possums.

#### 10.2 Fauna

The site is pasture apart from scattered regenerating native plants. Native fauna is likely to be severely depleted on this pasture.

Areas of native vegetation adjoin to the west and south, which will provide habitat or refuge for any displaced species.

The fauna on site will already be significantly depleted by the clearing as there are just scattered Peppermint trees on site.

The proposal does not require the clearing of Black Cockatoo habit with the only vegetation to be impacted being isolated regrowth Peppermint.

The potential for impact on Possums is considered low for the following reasons.

- The clearing of Peppermint trees is minimised.
- The existing Peppermint Trees are isolated and do not afford suitable habitat for Possums.
- Additional Peppermint Trees will be planted in clumps with wildlife linkages. 100 Peppermint trees will be planted to link the remnant Jarrah – Marri Forest west of the pit to the small creekline vegetation.
- This will create a usable habitat for the Ringtail Possums if they occur locally and link the forest to the Taxandria linearifolia along the creekline.

#### 10.3 Wetlands

There are no wetlands on the resource area. The creekline which commences 100 metres from the pit will have greater water in it since the removal of the forest which one occupied the whole of Lot 101. Therefore the soils around the creekline have increased in water since clearing and the *Taxandria linearifolia* has therefore been able to colonise the pasture and increase the size of the *Taxandria* Thicket along and around the creekline.

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# 10.4 Stygofauna and Troglofauna

Stygofauna, occur in caves and "are aquatic subterranean animals, found in a variety of groundwater systems". Troglofauna occur in air chambers in underground caves or smaller voids.

There is no limestone or similar rock on the resource area and therefore no potential for significant or unusual stygofauna in sand.

### 10.5 Weeds and Plant Diseases

Weed and plant disease management plans are attached at the end of this document.

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#### 11.0 CLOSURE

#### 11.1 Background

The excavated area was cleared prior to excavation and will be returned to pasture with some clumps of Peppermint trees between the creekline and the remnant Jarrah – Marri Forest

Experience by Landform Research in rehabilitation of sand quarries has shown that when completed well there is no need for irrigation of the rehabilitation and in the local areas.

It should be noted that Margaret River Natural Resources is part of the group that owns Lot 101. It is therefore in their interests to efficiently and correctly rehabilitate the excavated area.

#### Closure Objectives

The closure and rehabilitation is developed from a set of closure objectives that are designed to provide a parkland pasture end land use.

The closure objectives are shown Table 9 below.

In Table 9 the methods to be used to achieve the closure and rehabilitation objectives are shown, referenced to each of the closure objectives.

In order to provide monitoring and auditing of the closure and rehabilitation objectives a set of Completion Criteria are developed in Table 10 where the monitoring and restoration procedures are listed. The Completion Criteria are provided with a number, which is listed in each table as relevant.

Occasionally with sand excavations an operation is placed under care and maintenance or has a temporary closure. In such a situation some actions have to be taken to ensure the site is safe and does not have the potential to provide additional environmental impact. The provisions for temporary closure are shown in Table 4.

As part of the development of the closure and rehabilitation an inventory of the materials on site is provided in Table 8.

The materials inventory is a checklist of the materials that might occur when extracting materials from the ground and does not necessarily indicate that such materials are present on site.

#### Closure Summary

The extraction of sand is an interim use prior to reconstruction to a restoration of pasture.

Dieback and Weed Management in addition to monitoring and replanting failed areas is proposed.

Appropriate topsoil management is an important element in achieving successful rehabilitation and pasture re-establishment on the restored surface.

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Rehabilitation will progressively follow mining, with completed areas of the excavation being revegetated as soon as practicable.

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The final land surface will be smoothed and sloped to be compatible with the existing natural landform of the area, averaging 1.5 metres below the current land surface.

Appropriate contour banks will be used to control and harvest surface water from the post mined landform.

A definitive time for seeding and the planting is not prescribed, but rather a commitment to establish the vegetation within the first autumn/winter following placement of the overburden/topsoil.

#### **Proposed Final Contours**

Final contours are discussed in Section 5.3 Pit Design and Staging.

In summary the end land surface will be in accordance with the safety considerations of the Mines Safety and Inspection Act 1995 and the requirements and guidelines of the DMIRS; for example Guidelines on Safety Bund Walls Around Abandoned Open Pits 1991.

The depth of the pit will continue to be reformed to an undulating floor generally 2 metres above the water table but reducing to >0.5 metre separation in the south near the wetter pasture with perimeter faces battered down to 1:4 vertical to horizontal. The depth will be determined by the base floor having a separation to the highest water table of 0.5 to 1.0 metres as outlined in the attached Updated Water Management Plan that has been approved by DWER...

#### Materials Inventory

The materials remaining at closure from sand mining are natural soil materials that do not produce any remaining or lingering environmental risk.

An audit of the potential materials that may be present from mining at closure is presented below.

Table 7 Materials Inventory

Туре	Comment	Treatment	Reference
Soil	Topsoil is natural and	None required.	
	contains no detrimental materials.	To be used in rehabilitation.	
Subsoils -	Subsoil sand is natural	Non required.	
Overburden and contains no detrimental materials.		Generally taken as resource.	
Waste rock and non surface material and tailings	Not present. The pit bottoms in earthy yellow sand which is a natural material normally occurring on the surface.	None required.	
Saline surface water	The water quality is fresh.	No treatment necessary	
Saline ground water	The water quality is fresh.	No treatment necessary	
Acidic materials and drainage	Not present. The sand does not contain sulfides and there is no risk of acidic materials developing. The sand does not carry acidic materials or any at risk materials. Concurs with Nattaporn-Prakongkep, R J Gilkes, B Singh and S Wong, 2011, Mineralogy and chemistry of sandy soils in the Perth metropolitan area of the Swan Coastal Plain, Department of Environment and Conservation.	No treatment necessary.	Field geological examination by Landform Research and the soil test holes excavated in a grid across the resource area.
Sodic or dispersive materials  Asbestos –	The water quality is fresh.  None present.		Field geological examination by Landform Research Field geological
asbestiform minerals	rione present.		examination
Radioactive materials	Not present	The sand does not contain radioactive minerals. The activity level is much lower radioactivity than other locations such as coastal locations where heavy minerals are more prevalent.	Published WA Geological Survey radiometric mapping
Metallic or chemical materials	Not present	No metallic or sulfidic materials or minerals are present in these sands.	Field geological examination and experience and published information.
Tailings storage	Not required		
Ablutions waste		Serviced portable toilet system is provided.	Water Management Plan
Dangerous Goods and Hazardous Materials	None will remain on closure.	There are normally no hazardous materials used for sand mining apart from fuel, and servicing. The only other materials are for tasks such as weed management and	

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	FUEL The various plant will be refueled from mobile tanker.  None will remain on closure.	are dealt with under those sections.  Any soil or other materials with drips and spills will be removed offsite to an approved waste site or location.	Water Management Plan
	SERVICE MATERIALS Only minor lubrication will be conducted on site All major servicing will be conducted offsite.  None will remain on closure	Any wastes will be collected and removed from site promptly to an approved recycling or waste disposal area.  Only minor servicing will be conducted on site. All major servicing will be conducted offsite.	Water Management Plan
General waste		Regularly removed from site to an approved disposal area	Water Management Plan

#### 11.2 Closure Implementation

The closure planning will be updated from time to time as the excavation progresses forwards. This will include both anticipated costs and procedures.

The following procedures will be used for final closure and rehabilitation of any stage of excavation and on completion of the sand pit.

- The closure of completed areas of the operations will be progressive with closure of all remaining ground at the end of operations.
- Maintenance and monitoring will be conducted until completion criteria is met. A three year cut off is provided for rehabilitated soils.
- c) Unexpected or early closure will be completed in the same way as permanent closure below but the full rehabilitation will be completed as one operation.

Table 8 Closure and Rehabilitation Techniques

CLOSURE OBJECTIVE	Completion Criteria	Actions for Permanent Closure of any stage or the operations.
1.0 COMPLIANCE		
1.1 All legally binding conditions and commitments relevant to mine closure and rehabilitation will be met.	1.1a 1.1b	Rehabilitate any areas that are no longer required to local pasture with clumps of native vegetation. Review the latest documentation. Comply with legal requirements and commitments and conditions of approval. Assess compliance with the conditions and commitments and end use. Reform the land surface to have a landform similar to the natural form but at a lower elevation. Design the rehabilitation to comply with, and be able to achieve the completion criteria and commitments. Compile an audit table of all conditions and commitments that relate to closure and conduct an audit of those items upon the completion of each stage of rehabilitation and annually until sign off.

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			Visually audit against all conditions.					
2.0 L	2.0 LANDFORM AND SOILS							
2.1	All non natural structures, with mining will be removed.  All wastes will be removed from site.	2.1 2.2a 2.2b	<ul> <li>All non natural inert materials associated with quarrying will be collected and removed from site unless required for internal roads.</li> <li>All ground once occupied such as hardstand is to be deep ripped and soils reconstructed as required.</li> <li>If not required, roadbase, hardstand and any other inert materials left over from the site operations will be scraped and picked up and will be used to backfill the pit faces or reused.</li> <li>Visual audit of completed ground, to verify compliance.</li> <li>Visual audit of completed ground, to verify compliance with "no contamination to be left".</li> <li>Soil testing will be undertaken if there is evidence of adverse materials</li> </ul>					
			remaining such as fuel spills.  As a result of any testing remediation will be undertaken to ensure that the site is not contaminated.  Check samples will be collected to verify a lack of contamination.					
2.3	The land surface will be visually similar to the surrounding landform.	2.3	<ul> <li>Complete the activities to make the site safe.</li> <li>Faces and the landform are to comply with DMIRS Guidelines and be stable for the long term.</li> <li>Ensure that the batters are formed to comply with DMIRS and geotechnical requirements.</li> <li>Where possible match the landform to the adjoining excavated and non excavated surfaces.</li> <li>Push down or backfill faces and slopes.</li> <li>The surface will be undulating with similar slopes to the pre − mined condition.</li> <li>The excavated floor is to be undulating at between 0.5 m - &gt; 2.0 metres separation to the locally perched seasonal water table with batter slopes less than 1 : 4 vertical to horizontal.</li> <li>The excavated surface is to be resistant to wind and water erosion.</li> <li>Visual observations and survey of the landforms to confirm compliance.</li> </ul>					
2.4	The land surface and soils are to be capable of supporting pasture with clumps of native vegetation – trees.	2.4	<ul> <li>The soils are to be constructed from overburden overlain by topsoil, leaf litter, vegetation fragments as available in areas of native vegetation.</li> <li>Deep rip the floors and batter slopes along contour. Deep rip any compacted hardstand or internal roads.</li> <li>At the end of the current excavation the overburden topsoil followed by the vegetation will be spread across the excavated area as the key part of the final rehabilitation.</li> <li>The topsoil cover of 50 – 100 mm will be pushed to the edge of the current excavation in separate windrows where available. This is usually the top 50 mm to 100 mm. Topsoil will be respreads as the final surface covering.</li> <li>Visual observations and discussions with operators.</li> </ul>					
	3.0 HYDROGEOLOGY							
3.1	The reformed surface be >2 metres above the highest groundwater table.	3.1	<ul> <li>Push down or backfill faces and slopes.</li> <li>The excavated floor is to be undulating at between 0.5 m - &gt; 2.0 metres separation to the locally perched seasonal water table with batter slopes less than 1: 4 vertical to horizontal.</li> <li>Surface water drainage will be similar to the current drainage in quantity and direction of flows.</li> <li>Visual observations and survey of the landforms to confirm compliance.</li> </ul>					

#### 4.0 BIODIVERSITY The rehabilitated **Biological Hygiene** areas will, in time, form sustainable Implement the Dieback Management Plan. Implement the Weed Management Plan. pasture with clumps of trees and local native **Topsoil Recovery** vegetation. Overburden will be removed by pushing to the perimeter of the proposed pit to form perimeter bunding to the pit. This material will be used for later rehabilitation. When stored topsoil is used it may be diluted and mixed with fresh topsoil. Revegetation > Where possible any disturbed areas that are no longer required will be rehabilitated using the methods described above within 12 months of becoming available. Topsoil and vegetation fragments will be transferred directly from an area being cleared and spread across the surface to provide seed sources and habitats wherever possible. If direct transfer is not possible, any material stored in dumps will be respread Larger vegetation will be formed into occasional piles for habitat creation on the lower elevations. Pre-seeding weed control is only likely to be required where topsoils are used that contain weed species. This is unlikely to be the case on this site where the existing vegetation is in excellent condition even though some exotic species are currently present within the "natural" vegetation. Any weeds likely to significantly impact on the rehabilitation will be sprayed with Roundup or other herbicide or grubbed out, depending on the species involved. Fusilade will be used where grasses present an impediment to rehabilitation. Weed affected topsoil and overburden will be buried. Native vegetation in the clumps connecting the remnant forest to the creekline. Rehabilitation will take place during the first winter months following the clearing of the existing Peppermint Trees if they are cleared as a result of the grant of a Clearing Permit Local species (Agonis flexuosa) are to be used in revegetation (100 plants) sourced as tube plants and used because they are the favoured habitat of the Western Ringtail Possum. Any materials brought to the site will be dieback and weed free Trees/shrubs will be installed as tube plants during June - July in clumps on the rehabilitated land surface and will be provided with a 10 g tree fertiliser tablet placed beside the plant. The planting density will be 50 tube plants per hectare, planted in clumps. The clumps of trees will be fenced to exclude stock, and rabbit guards installed if deemed necessary at the time of planting. If no stock are retained on site, fencing will not be necessary. Tube plants are to be established in low undulations and not on the high points of furrowed soil. The planting rate is to achieve the completion

criteria allowing for deaths.

Pasture

- The sowing of pasture and crop will be integrated into the normal farming systems. Seeds of pasture species will be spread by normal farm practice at rates and species determined by the land holders/farm manager with advice from either a consultant or the Department of Primary Industries and Regional Development.
- The pasture species will be matched to the soil types and rainfall. The location falls into the "High Rainfall Coastal" planting regime with sandy soils. Suitable perennial legumes include Birdsfoot trefoil, Lucerne, Strawberry Clover, and Sulla. Perennial pasture includes Perennial

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4.2	The re-established surface will be free from Declared or Significant Environmental weeds that could compromise the success of the rehabilitation or	4.2	Ryegrass, Phalaris, Cocksfoot, and Summer Active Tall Fescue, Kikuyu and Rhodes Grass. Annual pasture species include Italian Ryegrass, Serradella, subterranean clover.  The actual species used will be determined by the individual season, nature of the rainfall in the preceding months and stocking/hay production proposed by the landholder which may change from time to time.  Seeding rates are 2 – 5 kg/ha depending on the species used; for example Ryegrass is seeded at 3 kg/ha whereas Rhodes Grass is seeded at 4 kg/ha.  If sufficient vegetation does not germinate the area will be over-seeded in early Autumn with a mixture of pasture species.  Completion Criteria  Pasture with clumps and linkages of 100 local native Peppermint between the forest remnant and the creekline vegetation if the existing Peppermint on site are to be cleared under a Clearing Permit.  Inspect the site for Significant Environmental and Declared Weeds.  If found, inspect adjoining native vegetation for edge effects.  Inspect rehabilitation and the edges of access roads.  Provide weed control using the methods outlined in the Weed Management.  Implement Dieback protection measures outlined in the Dieback Management Plan.  Observations, discussions with operators and vegetation assessment.
	impact on adjoining vegetation.		
5.0 S	TAKEHOLDERS		
5.1	The interests of all relevant stakeholders will be considered during operations, closure planning and closure.	5.1	<ul> <li>Prior to closure, consult the stakeholders to check whether the closure planning, where possible, considers their interests and carry them out as necessary.</li> <li>Consult with City of Busselton, in relation to their requirements for closure.</li> <li>Review the latest documentation.</li> <li>Comply with legal requirements and commitments.</li> <li>Closure audit.</li> </ul>
6.0 S	AFETY		
6.1	The site will be left safe for parkland pasture end use.	6.1	<ul> <li>Provide warning signs as required.</li> <li>Provide fences, bunding and warning signs above faces as required.</li> <li>Provide locked gates or access restraints as required.</li> <li>Inspect all areas and ensure the land surfaces and access points, are stable to erosion from wind and water.</li> <li>The disturbed land will be made safe and in compliance with the <i>Mines Safety and Inspection Act 1994 and DMIRS</i> Mine Closure Guidelines.</li> <li>Surfaces will be formed to DMIRS Guidelines and match natural ground.</li> <li>Holes, sumps drains, ditches and the like will be filled and removed.</li> <li>The land surface is to have a landform similar to the natural form.</li> <li>Audit of completed ground, to verify compliance.</li> <li>Visual observations of the landforms.</li> </ul>

# 11.3 Monitoring

Table 9 Monitoring and Remediation

	CLOSURE		Completion	Measurement Tools	Performance	Remediation
	OBJECTIVE		Criteria	Wicasarciniciti 100is	Indicators	remediation
1.0 C	OMPLIANCE					
1.1	All legally binding conditions and commitments relevant to mine closure and rehabilitation will be met.	1.1a	The disturbed land will be made safe and in compliance with the Mines Safety and Inspection Act.	Conduct an audit of all legally binding conditions.	All legally binding conditions have been complied with.      Audit at least annually.      Monitor for 3 years.	➤ Reform the land surface and bring the operation into line with the conditions and legal requirements.
		1.1b	Comply with the requirements of the Planning Consent and Extractive Industries Licence.	Conduct an audit of the environmental conditions.     This includes Clearing Permits, DWER Licences and other conditions.	<ul> <li>All conditions have been complied with.</li> <li>Audit at least annually.</li> <li>Monitor for 3 years.</li> </ul>	Undertake any action that is necessary to bring the site into compliance.
	ANDFORM AND SO		S T1	> 15 - 1 - Ft 5	N 1	
2.1	All non natural structures, with mining will be removed.	2.1	The site will be cleaned, and non natural materials associated with mining will be removed.	Visual audit of completed ground, to verify compliance.	No non natural structures will be retained on site. Conduct at closure.	Remove any foreign materials.
2.2	All wastes will be removed from site.	2.2a	All non local hardstand and roads will be collected and removed or buried in a safe location.	<ul> <li>Visual audit of completed ground, to verify compliance.</li> <li>Discussion with staff and operators.</li> </ul>	<ul> <li>Non local materials associated with excavation</li> <li>Conduct at closure.</li> </ul>	Remove or bury non natural materials.
		2.2b	Any contaminated soil or materials will be removed to an approved waste disposal site.	<ul> <li>Visual audit of completed ground, to verify compliance.</li> <li>Discussion with staff.</li> <li>Soil testing if there is evidence of material remaining.</li> </ul>	<ul> <li>No visual evidence or sample data (if conducted) of contaminated or waste materials.</li> <li>Conduct at closure.</li> </ul>	<ul> <li>Remove any remaining facilities and remediate or remove any contaminated soil.</li> <li>Retest and remediate as necessary.</li> </ul>
2.3	The land surface will be visually similar to the surrounding landform.	2.3	> The land surface will be visually similar to the surrounding landform.	Visual observations from the key viewscapes.	➤ The land surface will be visually similar to the surrounding landform.  ➤ At closure and for 3 years.	Repeat the relevant site closure procedures.
2.4	The land surface and soils are to be capable of supporting pasture with clumps of native	2.4	Reconstructed soil properties will be appropriate to pasture.	Visually observe the land surface.	At closure and for 3 years or sign off.	Repeat the relevant site closure procedures with respect to soil preparation.

	vegetation -									
0.011	trees.									
	3.0 HYDROGEOLOGY 3.1 The reformed 3.1 > The   > Implement site   > Floor to be   > Reform the land									
	surface be 0.5m to >2.0 metres above the highest groundwater table.	3.1	rehabilitated surface will have a separation of be 0.5m to >2.0 metres above the highest groundwater table.	survey.  Use piezometers or test pits as necessary to confirm compliance.  Visual observations and site survey.	undulating some 1.5 metres on average below the natural surface.	surface with backfill or other measures to bring the surface into compliance.				
4.0 B	IODIVERSITY The rehabilitated	4.1	➤ The	➤ Conduct visual	> The rehabilitated	<ul> <li>Where deficient,</li> </ul>				
	areas will, in time, form sustainable pasture with clumps of Peppermint trees connecting the remnant forest and the creekline vegetation.		rehabilitated areas will be pasture with clumps of trees and local native vegetation.	audits and as necessary plant counts.	areas will be pasture with clumps of trees and local native vegetation.  At closure and for 3 years or sign off.	provide additional tube planting or seeding.				
4.2	The re- established surface will be free from Declared or Significant Environmental weeds that could compromise the success of the rehabilitation or impact on adjoining vegetation.	4.2	No significant infestations of environmental or declared weeds.	<ul> <li>Visual audits.</li> <li>Maintain ongoing records.</li> </ul>	Exotic and weed species will not compromise rehabilitated areas.     At closure and for 3 years or sign off.	Undertake additional weed management such as spraying or mechanical removal.     Continue monitoring and management to check compliance.     Repeat as necessary for 3 years or until sign off.				
5.0 S	TAKEHOLDERS					Ü				
5.1	Ensure stakeholder issues are considered.	5.1	Prior to closure, consult any relevant stakeholders to check whether the closure planning considers their interests.	<ul> <li>Verify the closure plan against the Stakeholder interests.</li> <li>Site audit and discussions with operators.</li> </ul>	<ul> <li>Stakeholder interests are incorporated into the closure planning where possible.</li> <li>At closure and for 3 years or sign off.</li> </ul>	Undertake any action that is required to meet the requirements of the stakeholders.     Repeat as necessary the various steps in the closure planning and revegetation.				
	AFETY	6.4	The disturbed	Vioual audit of	Enong and the					
6.1	The site will be left safe for parkland pasture end use.	6.1	➤ The disturbed land will be made safe and in compliance with the Mines Safety and Inspection Act 1994 and DMIRS Mine Closure Guidelines.	<ul> <li>Visual audit of completed ground, to verify compliance.</li> <li>Discussion with staff.</li> </ul>	<ul> <li>Faces and the landform are to comply with DMIRS Guidelines and be stable for the long term.</li> <li>At closure and for 3 years or sign off.</li> </ul>	Undertake any action that is necessary to make the site safe.				

# Excavation – Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

# 11.4 Weed Management Plan

Weed management is to be used to minimise impact on adjoining remnant vegetation and on adjoining properties as well as maintaining the agricultural capability of the rural lot.

Margaret River Natural Resources is part of the group that owns Lot 101. It is therefore in their interests to efficiently and correctly rehabilitate the excavated area.

The management of weeds is essentially similar to that for plant diseases. The impact of weeds is really the impact within the local area and the more they are controlled the better. It is desirable that the site does not become a haven for environmental weeds and therefore a management and control program is warranted at all sites.

Weeds can be declared under the *Agriculture and Related Resources Protection Act* 1976 which requires that Declared Weeds are eradicated. Other weeds are not Declared but may be classified as Environmental Weeds because they are well known for impacting on vegetation.

#### Weeds are most likely to impact on;

- > Disturbed areas such as overburden dumps, topsoil stockpiles.
- Edges of access roads.
- Edges of firebreaks adjacent to surrounding vegetation.
- > Locations accessible to the public on which rubbish is dumped.

#### The main sources of weeds are;

- · Weeds from edge effects from access and local roads.
- · Gradual creep of weeds along access roads.
- Rubbish dumped by the public. This is not likely as the resource is set well back from Gibb Road
- Materials or waste brought to site by employees.
- Soil and seeds from vehicles arriving at site. This often applies to trucks that have carried something else such as grain, or vehicles to be used in earthworks.
- · Wind blown seed from surrounding land.
- Birds and other vectors. This is more common than is often given credit for. eg Solanum species.
- The Dieback Management Actions will be used to assist weed management.

#### **Weed Management**

- Weed Management will integrate with normal farm weed management.
- Inspections are to be conducted to monitor the presence and introduction of Environmental and Declared Weeds on an annual or more frequent basis. On identification, Declared and significant environmental weeds will either be removed, buried, or sprayed with a herbicide.

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

 All vehicles and equipment to be used during land clearing or land reinstatement, are to be clean and free from soil or plant material when arriving at site.

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- No soil and vegetation will be brought to the site apart from that to be used in rehabilitation.
- · Plants to be used in rehabilitation are to be free from weeds.
- Weed affected top soils may need to be taken offsite, used in weed affected areas, buried by 500 mm soil/overburden or taken offsite.
- · Illegally dumped rubbish is the major source of weeds and will be removed promptly.
- No weed contaminated or suspect soil or plant material is to be brought onto the site.
- When clearing land or firebreaks vehicles will work in conjunction with dieback principles and push from areas of better vegetation towards areas of lower quality vegetation.
- Weeds are to be sprayed with broad spectrum spray prior to planting or seeding in weed affected soils as required.

#### 11.5 Dieback Management

Dieback of vegetation is often attributed to *Phytophthora cinamomi* even though there are other Phytophthora species and other diseases such as *Armillaria* that can cause dieback like symptoms. Microscopic soil-borne fungi of the genus *Phytophthora* kill a wide range of native plants and can cause severe damage to many vegetation types, particularly those from the families Proteaceae, Epacridaceae, Xanthorrhoeaceae and Myrtaceae.

In most cases dieback is caused by a pathogen which infests the plant and causes it to lose vigour, with leaves dying, and overtime may kill the plant. As such the management of Dieback is essentially related to plant hygiene when coming onto a site and within a site.

There are several guides to the management of Dieback.

- Department of Parks and Wildlife (DBCA) Dieback Hygiene Manual 1992 is a practical guide to Dieback management.
- Department of Parks and Wildlife (DBCA) Best Practice Guidelines for the Management of Phytophthora cinamomi, draft 2004.
- Dieback Working Group 2005, Management of Phytophthora Dieback in Extractive Industries.
- Dieback Working Group, 2000, Managing Phytophthora Dieback, Guidelines for Local Government.

Jarrah Dieback (Phytophthora cinnamomi) is scattered across this part of the State, but in many cases such as this site the vegetation is not interpretable because of the levels of disturbance.

On this site, even though there is no current evidence of dieback or other species normal best practice, plant disease management actions will be used,

The aim of dieback management during excavation is to minimise the risk of entry
of any additional plant pathogens to the site.

- There is very little risk of the operations spreading dieback onto vegetation on adjoining properties as there is no access to those properties and they are cleared.
- All vehicles and equipment used during land clearing or land reinstatement, will be clean and free from soil or plant material when arriving at site.
- When removing topsoil and clearing, vehicles will run around the perimeter and then push inwards where possible.
- No soil and vegetation will be brought to the site apart from that to be used in rehabilitation and that which is dieback free.
- Plants to be used in rehabilitation are to be certified as from dieback free sources.
- Excavation vehicles will be restricted to the excavation area apart from clearing land.
- Rehabilitated surfaces will be free draining and not contain wet or waterlogged conditions.
- · Illegally dumped rubbish is to be removed promptly.
- When clearing land or firebreaks vehicles are to work from disturbed areas towards
  the pit; or, in situations where dieback interpretation is not possible, from areas of
  higher quality vegetation to areas of lower quality vegetation.

DBCA has determined that material such as sand, taken from deeper in the regolith profile where there is no organic and other plant matter, carries low risk of spreading dieback. (DEC 2004).

The Weed Management Policy will be complied with.

## **Explanatory Reports and Management Plans**

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

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Landform Research

#### Attachment C

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

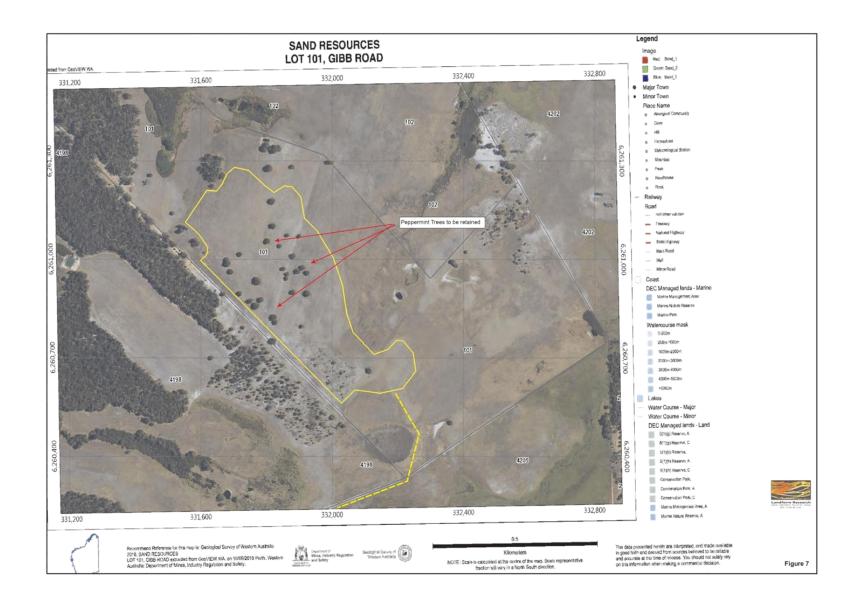
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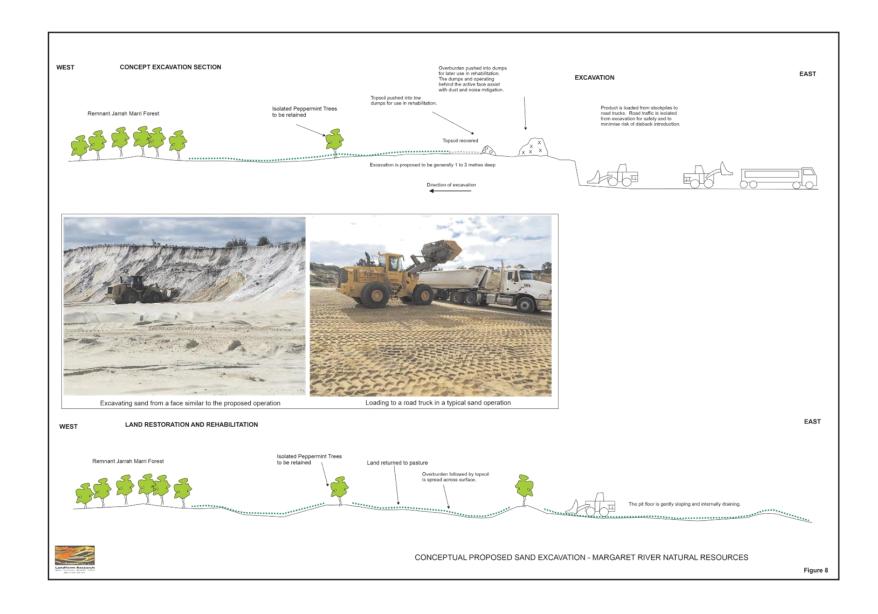
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# Attachment C



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# Attachment C Explanatory Reports and Management Plans



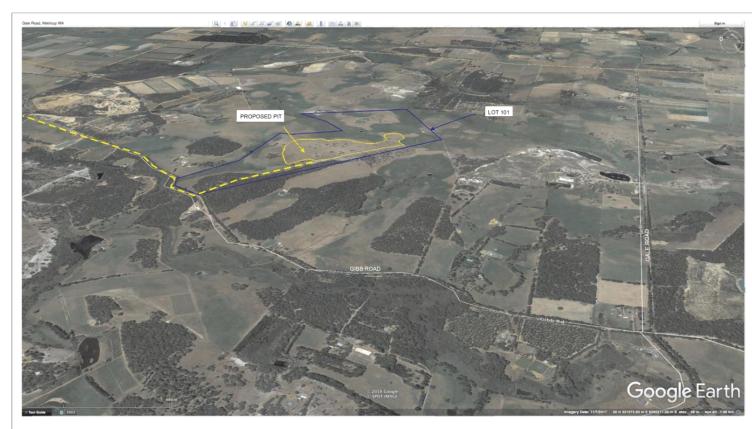
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# Attachment C



MARGARET RIVER NATURAL RESOURCES



OVERVIEW OF THE PIT ON LOT 101, SHOWING THE SURROUNDING EXTRACTIVE INDUSTRIES

**Updated Water Management Plan** 

Proposed Sand Pit Lot 101, Gibb Road, Kaloorup

Margaret River Natural Resources Pty Ltd

21 October 2019

#### 1.0 Geology and Geomorphology

The sand lies between the Leeuwin Complex and the Yilgarn Craton in a down faulted basin filled with Permian overlain by Cretaceous sediments.

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The land system is the Yelverton System (DPIRD Mapping) that now lies above the Whicher Scarp and was formed as a north facing bay at a time of higher sea level.

The general formation of the sand systems are thought to be a marine with dunes, for the surface finer sands, with the basal sands being considered to have potentially originated from the Permian glacial times.

The geology is discussed in Wilde S A and D R Nelson, 2001, Geology of the Western Yilgarn Craton and Leeuwin Complex, Western Australia – Field Guide, Geological Survey of Western Australia and Marnham J R, G J Hall and R L Langford, 2000, Regolith-Landform Resources of the Cowaramup-Mentelle 1:50 000 Sheet, Geological Survey of Western Australia.

The sand resource is located on a plateau sand and gravel ridge that  $\,$  rises from around 68 metres AHD to 74 metres AHD.



#### 13.1 Attachment C

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

#### 2.2 Regolith and Soils

The soils and excavation of sands are well known from the other sand pits that have operated and currently operate across the local area. A small amount of gravel and gravelly soil occurs in the west of the resource.

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The resource typically has a grey sand overburden up to 100 mm thick over leached white silica sand grading to yellow sand. Yellow sand occurs more in the west closer to the laterite duricrust, with the leached white sand more common in the areas of lower elevation or areas that have been subject to leaching in the geological past.

The finer sand overlies discontinuous thin layers of coarser sand.

Under the sand is the sandy loam subsoils that are developed on the Cretaceous sediments.

The soils are well described in Marnham J R, G J Hall and R L Langford, 2000, Regolith-Landform Resources of the Cowaramup-Mentelle 1:50 000 Sheet, Geological Survey of Western Australia.

#### 3.0 Climate

The climate of the area is classified as Mediterranean with warm to hot summers and cool wet winters.

Temperatures are recorded at Witchcliffe, where the maximum temperatures in the hottest and coldest months, December to January and July, are 24 to 27 degrees C and 16 - 17 degrees C respectively. In winter the average minima drop to 8 degrees C in July.

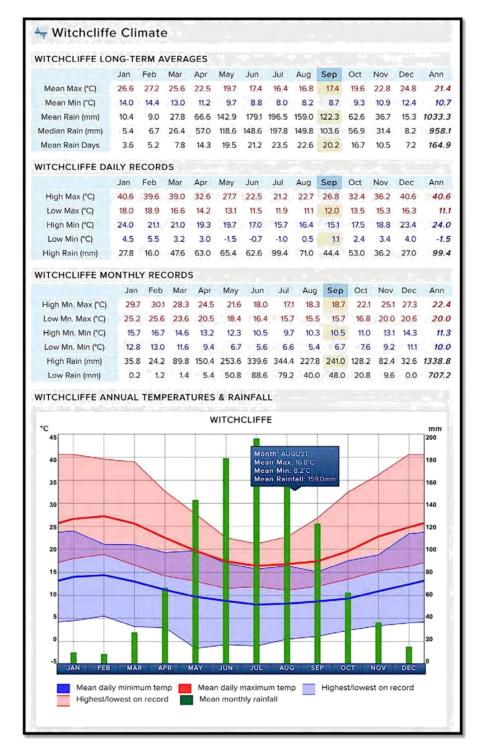
Average annual rainfall for the area is 958 mm. Most of the rain falls during the winter months April to October inclusive. Evaporation exceeds rainfall in all but the wetter months.

The 2 hour 10 year exceedance rainfall event is 39.2 mm.

Wind direction is predominantly from the east in the morning and from the north west to south west in the afternoon during the summer months, with winter winds being lighter but having a component of strong winds in winter storms.

Updated Water Management Plan - Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup Margaret River Natural Resources

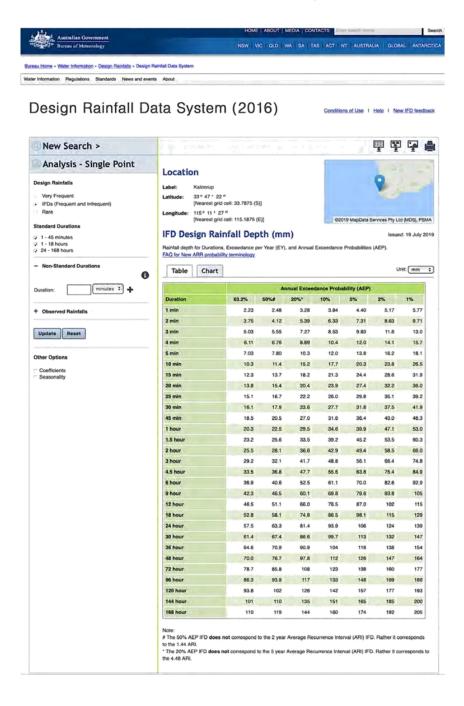
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#### **Explanatory Reports and Management Plans**

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

#### 4.0 Surface Water

There is no surface runoff of water on the sand resource due to the porosity and permeability of the sand, with precipitation draining to the water table.

Only the areas that are well above the water table have been selected for excavation. In summer the local soils dry out, but in winter the rate of precipitation wets the sand. There are no winter-wet conditions.

The site is not subject to any watercourses or flood paths but the headwaters of a creek originates to the north of the eastern portion of the pit, originating from water entering the overlying sands and then running along the more clayey basement of Cretaceous sediments. The setback to the headwaters of the creek is over 100 metres from the edge of the sand pit.

The surface water and superficial groundwater are the only relevant considerations for this proposal.

It is noted that the clearing of the former forest from Lot 101 will have led to significantly increased recharge and the formation of the creeklines which are more permanent features.

Figure 2 shows the dry elevated area where the sand resource occurs. It also shows the water courses that commence down slope from the proposed pit and which will not be impacted by the excavations. See Figure 7 for the on site contours.

The water table measurements taken on 14 November 2018 show that the sand resource is approximately 2.0 metres deep in the south east and centre thickening to 3.5 metres deep in the north west. Additional soil test holes were conducted on 11 September 2019. With a separation of 0.5 metres to the water table the thickness of resource will be 1 – 1.5 metres in the east and centre and up to 3.0 metres in the west. Gravel resource occurs in the north west with the sand. Test hole 13 had a separation to perched groundwater of 5.1 metres on 11 September 2019.

In the south west, the Department of Water South West Region Guidelines Water Resource Considerations for Extractive Industries permits a final land surface of 0.5 metres above the highest winter water table. Draft WQPN 15 BRM extraction near sensitive resources is also relevant for guidance.

There is generally no surface runoff of water from the sand due to the porosity and permeability of the sand, with precipitation draining to the water table. It has been estimated that 30% of the rainfall will reach the superficial aquifer with an unknown amount filtering into the deeper aquifers, based on the pasture on the sand.

The groundwater issues were considered by the Environmental Protection Authority in Bulletins 512, 788, 821 and 818, and whilst these do not specifically refer to the extraction of basic raw materials, and are for the Lake Clifton Catchment, they do consider the impact of clearing, planting trees and rural, residential developments. The figure the EPA used for recharge from native vegetation was 10-15% rainfall, whereas cleared land had a recharge of 30-40%.

Recharge from pasture is anticipated currently to be near 30% based on the vegetation and elevation above the water table. Recharge on excavated areas will also be in the order of 30% because of smaller separations to the water table based on the existing sand ridges accepting and retaining moisture from smaller rainfall events which do not reach the water table. (Environmental Protection Authority Bulletins 512, 788, 821 and 818). This will result in little change to recharge with excavation.

A review of summer and winter ground and aerial photography shows that the pit is located in elevated sandy ground that does not get waterlogged in winter and does not grow good pasture because of the poor soil quality on elevated ground. See Figure 2.

#### **Explanatory Reports and Management Plans**

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

At the end of excavation the soils will be returned to a lower elevation at which soil moisture is more readily available and the pasture will last into summer. The effect will be that the excavated area will appear green on Figure 2, indicating summer soil moisture.

Minor surface water is generated from the slopes above the pit and the haul road. This will form from rainfall infiltrating the ground, running along on top of the granite basement and then emerging at the gutters to the haul road.

All surface water from the access roads will drain to the edges to infiltrate the adjoining sand as is the case with any gravel road.

All surface water will be retained in the pit. DWER has normal guidelines for water management of retaining the 2 hour ten year exceedance of 39.2 mm within the pit.

Whilst the base of the pit is normally sand, the western portion bottoms on less permeable gravel and underlying sediments. Therefore to retain the volume of water from a 2 hour 10 year exceedance event a rainfall of 40 mm is used for simplicity and assuming a saturated catchment.

For that rainfall one hectare of pit will generate 400 m<sup>3</sup> of stormwater. Therefore for each hectare the edges of the pit are to be able to retain that volume of water.

To prepare the pit the topsoil and overburden is pushed to low bunds on the side of the pit and then the pit is extracted to a depth of around 1 to 3 metres. That means the depth of the pit, including the perimeter bund of normally around 1 metre high, is around 2-4 metres in depth.

Assuming that the pit is only 2 metres deep at the lowest elevation, and using a floor slope of 1 to 10 vertical to horizontal for the steepest pit slope, then each linear metre of pit wall will hold 20 m<sup>3</sup> of stormwater. To retain the 2 hour ten year storm event a pit to wall distance of only 20 - metres along the edge of the pit is required per hectare of pit. See the attached cross section..

This demonstrates how the pit will easily retain all the water from the design rainfall event. For a pit that is larger a correspondingly larger basin area is required. In reality the wall and bund around the pit will normally be at least 3 metres which will reduce the required basin size further.

The design of the pit is consistent with Department of Water, *Water resource considerations* for extractive industries, DOW South West Region Guideline and Draft WQPN 15 BRM extraction near sensitive resources.

#### 5.0 Groundwater

Department of Water 2010 *Murray Drainage and Water Management Plan* at Pinjarra places the transmissivity as 5 – 15 metres per day or around 9.2 metres per day for similar sand in a similar hydrogeological situation.

The infiltration rates ensure that the sand does not become saturated and no water exists in the sand resource areas.

The resource area is elevated, with a shallow seasonal superficial water table perched at the top of the underlying Cretaceous sediments when the vertical infiltration rate is exceeded by the winter precipitation.

The site sits within the South West Groundwater Areas Allocation Plan 2000 and lies in the Dunsborough – Vasse Subarea for Superficial and Leederville Formation. The underlying Yarragadee Aquifer will not be impacted.

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In reality it is only the Superficial Aquifer that is relevant to this proposal in terms of the depth to groundwater beneath the base of the sand pit.

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There are no acid sulphate or salinity issues, with the soils and water being fresh and elevated in the landscape.

The excavation of sand from the site complies with the DWER South West guidelines and uses the management actions wherever there is environmental benefit.

The protection of surface and ground water from contamination by hydrocarbons is viewed by Margaret River Natural Resources as a critically important issue in managing its environmental responsibilities at this site. The company has examined this risk and adopted a range of policies and procedures.

The resource area is elevated with a shallow seasonal superficial water table perched at the top of the underlying Cretaceous sediments when the vertical infiltration rate is exceeded by the winter precipitation.

Excavation will continue down to an elevation of 1 to 3.0 metres, well above the highest winter water table which will be predominantly >2.0 metres above the superficial water table as the sand resource is located on the plateau ridge.

The location and extent of the resource to be excavated was developed following extensive aerial and ground observations by Lindsay Stephens of Landform Research. See Figures 2 and 7.

The water table measurements taken on 14 November 2018 show that the sand resource is approximately 2.0 metres deep in the south east and centre thickening to 3.5 metres deep in the north west. With a separation of 0.5 metres to the water table the thickness of resource will be 1-1.5 metres in the east and centre and up to 3.0 metres in the west. Gravel resource occurs in the north west with the sand.

In the south west, the Department of Water South West Region Guidelines Water Resource Considerations for Extractive Industries permits a final land surface of 0.3 - 0.5 metres above the highest winter water table. The south west guideline is more applicable to this site than the guideline WQPN 15 because the end use of the land will be to continued agriculture use.

Around 1 000 kL per year is used for minor dust suppression and is to be sourced from a soak at the headwaters of the small creekline.

Holes were excavated to the base of the resource on 12 November 2018. The local area (Witchcliffe) experienced a very wet August in 2018 with consistent but slightly below average rainfall in September through November. Even so with the heavy rainfall of August and the consistent later rainfall the soils remained moist.

The soil test holes were sunk with an excavator to the base of the resource and the elevation measured below natural ground level. The soil test holes were sunk under the supervision of Roger Cook of Margaret River Natural Resources on 12 November 2018 in locations allocated by Lindsay Stephens of Landform Research to check the previously interpreted elevations of the resource and water tables.

Additional test holes were conducted using an excavator on 11 September 2019 and measured by Lindsay Stephens of Landform Research, which was about the highest winter groundwater for 2019, based on rainfall data. Several test holes were sunk near the 2018 soil test holes to compare the water table from 2018 and 2019. The data was similar in each year as could be expected based on the drainage off the ridge especially to the north west.

The soil test holes are shown on Figure 7 with a section along the resource provided. The contours of the late winter water tables are shown on Figure 6.

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Margaret River Natural Resources

The test holes confirm the resource area and depth assessments previously made and show that the excavation can be completed with no impact on the local water tables or any risk of local flooding.

Within the resource area, the perched seasonal groundwater varies from an elevation of 63.5 metres AHD, in the north west, rising to 71.0 metres in the central parts of the resource.

It is also noticed that within each concept stage the elevation of the seasonal maximum water table varies quite considerably. Therefore the best means of determining the base floor of the pit, between 0.5 and 1.0 metres, is during excavation.

The elevation of the water table provides a starting point for the floor elevation, but it is only during excavation that more precise measurements can be made as the resource and the water table varies in elevation. Even so there should be no exposure of the water table during excavation apart for short periods in the small active area of the pit whist adjustments are made to the final floor elevation.

### Soil test Hole Results.

HOLE NUMBER	EASTING	NORTHING	GROUND AHD	DEPTH TO WATER	GROUND WATER AHD NOV 2018	GROUND WATER AHD SEPT 2019
1	331 452	6261 490	49.0 m	0.0 m	49.0 m	
2	331 676	6261 347	63.6 m	3.5 m	60.1 m	
3	331 689	6261 157	69.3 m	3.2 m	66.1 m	
4	331 820	6260 930	73.2 m	3.5 m	69.7 m	
5	331 939	6260 766	72.4 m	1.5 m	70.9 m	
6	332 047	6260 649	72.3 m	2.1 m	70.2 m	
7	331 828	6260 924	73.4 m	3.3 m		70.1 m
8	331 689	6261 157	69.3 m	2.3 m		67.0 m
9	331 705	6261 312	65.0 m	2.7 m		62.3 m
10	331 697	6260 883	72.1 m	2.7 m		69.4 m
11	331 873	6260 706	72.3 m	>2.5 m		< 69.8 m
12	332 022	6260 833	70.7 m	1.1 m		69.6 m
13	331 854	6261 096	72.2 m	5.1 m		67.1 m
14	331 799	6261 197	72.1 m	> 1.1 m		< 71.0 m
15	331 694	6261 065	72.0 m	2.4 m		69.6 m
16	331 619	6260 969	72.8 m	> 1.7 m		< 71.1 m
17	332 209	6260 890	69.7 m	0.5 m		69.2 m
18	331 489	6261 275	56.7 m	0.0 m		56.7 m

In addition there is a commitment to monitor the water table during excavation using small test holes and/or piezometers in the base of the pit as the pit is excavated. Any areas which do not have the correct separation to the water table will be backfilled as necessary to ensure that the correct amount of sand of around 0.5-1.0 metres is provided above the winter high water table. See Figure 8.

### Protection of the Water Table

The management of water during excavation is contained in the Excavation Management Plan dated 28 November 2018. Excavation is to occur with a separation of 0.5 to 1.0 metres of the winter maximum perched water table.

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

The pasture on the ridge is low grade as it sits on leached white sand well above the water table. In summer the temporary perched water table drops below the underlying subsoil base of loamy and sandy clay sediments. This causes the pasture to die as can be seen from summer aerial photographs.

The aim of the excavation has always been, in addition to extracting the sand, improving the pasture on site by removing the leached white sand from the surface and reconstructing a soil based on loamy yellow sands closer to the water table. The reconstructed soils have much greater water and nutrient holding capacity than the current leached sands.

This means that the final land surface will be 0.5 to 1.0 metres above the highest perched water table.

The best means of not intersecting the water table is to excavate and provide piezometers of temporary test holes to measure the late winter water tables. If the separations are not sufficient the floor of the pit is to be back filled to achieve the separation. Test excavations and piezometers will be used to confirm the separations to the water table.

The water table should not be exposed at any time and if it is exposed in late winter then the floor will be raised to the final floor separation of 0.5 – 1.0 metre separation. The normal excavation at cut will be 0.2 to 0.3 metres below the final floor elevation to enable room for the 0.2 to 0.3 metres of topsoil to be replaced.

If the floor floods in late winter the floor of the pit is too low and the floor will be backfilled to achieve the completion criteria pit floor with a separation of 0.5 to 1.0 metres.

### 13.1 Attachment C

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

### 6.0 WATER QUALITY MANAGEMENT

### 6.1 Water Source Protection Areas

Department of Water Environment Regulation – South West Region Guideline –Water resource considerations for extractive industries apply to this site.

The excavation on Lot 101 complies with DWER Guidelines for water management and separation to the groundwater of > 2 metres in most situations and at all times 0.5 metres (500 mm), for all other areas including the edge of the low lying areas.

### 6.2 Water Requirements

The pit is relatively small with short access roads and operated intermittently in campaigns.

The water requirements are anticipated to be minimal and sourced from farm supplies. In most cases dust suppression will not be required.

Around 1 000 kL per year is to be used for minor dust suppression and for washing product.

Whilst to wash any product will pump more water, with little evaporation the water will seep back to the superficial water table.

The proposed operation complies with all Government Policies and Guidelines.

Potable water is brought to the site as needed.

### 6.3 Water Quality Protection Guidelines

All facilities and procedures on site are designed to comply with the DWER – DMIRS Water Quality Protection Guidelines for Mining and Mineral Processing and are all complied with;

- Minesite stormwater
- WQPN 15 Extractive Industries near sensitive water resources
- Draft WQPN 15 BRM extraction near sensitive resources 2014
- Department of Water Environment Regulation South West Region Guideline Water resource considerations for extractive industries.

### 6.4 Surface Water

See the documentation in Section 3.0 above which is largely taken from the Excavation Management Plan dated 28 November 2018.

### 6.5 Groundwater

See the documentation in Section 4.0 above which is largely taken from the Excavation Management Plan dated 28 November 2018.

### 6.6 Salinity

Precipitation falling on the site is fresh.

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

The groundwater obtained from the bore on site is fresh and there is no likelihood of significant or other salinity increases apart from minor evaporation, which is no different from any garden.

The existing bore provides a monitoring point for water quality.

The groundwater is not exposed, apart from a small sump in the base of the pit to act as a water source.

### 6.7 Dewatering

No dewatering is proposed. All water is to be retained in the pit and infiltrates into the sand.

### 6.8 Recharge

See the documentation in Section 3.0 above which is largely taken from the Excavation Management Plan dated 28 November 2018.

### 6.9 Acid Sulfate Risk

Definitive survey procedure is produced in DEC (DWER) 2013, Identification of Acid Sulfate Soils and acidic Landscapes and within document Acid Sulfate Soil Management Advisory Committee NSW, 1998, Acid Sulfate Manual. This information forms the basis for much of the assessment procedures in Australia, including those adopted by the Western Australian Planning Commission and the Department of Environment Regulation.

The main method of assessment is based on geological examination. If at risk conditions are identified then laboratory testing may be required but must be completed carefully because there is a high risk of false positives with the available testing regimes.

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

Acid Sulfate is a natural phenomena, that can be exacerbated by disturbance. For it to be present there needs to be;

- > 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.

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

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

The site has been inspected by Lindsay Stephens of Landform Research and the resource area tested with excavation test holes to 3.0 metres depth. None of the at risk parameters occur on site.

On site the soils are yellow sands that are oxidised and do not carry any risk of acid sulphate potential. Some minor iron induration is encountered in the faces of the pit, generally below the proposed base of the pit.

This concurs with Nattaporn-Prakongkep, R J Gilkes, B Singh and S Wong, 2011, Mineralogy and chemistry of sandy soils in the Perth metropolitan area of the Swan Coastal Plain, Department of Environment and Conservation who concluded that there is no risk of acid sulfate soils in sands unless there is peat or organoferricrete present and excavation proceeds below the water table. In such situations no testing would be required because there is no risk. None of these conditions are encountered.

### 6.10 Unauthorised Access and Illegal Dumping

- The potential for rubbish to be dumped relates to unauthorised access to the site. Access is restricted by current farm fencing and locked gates. The pit is 500 metres from the nearest road.
- Wastes generated from on site operational activities will be recycled wherever possible and periodically disposed of at an approved landfill site.
- Any illegally dumped materials are to be removed promptly to an approved landfill or other suitable site, depending on the nature of the material.

### 6.11 Wastewater Disposal

A serviced portable toilet is proposed to be in place while the site is operating. Serviced means they are pumped out by a licensed contractor.

### 6.12 Refuelling

Fuel management will be in accordance with the relevant guidelines. The methods to be used are summarised below.

Documents specific to the fuel and maintenance are the DOW - DMIRS Water Quality Protection Guidelines for Mining and Mineral Processing

- WQPN 60 Tanks for mobile fuel storage in PDWSAs.
- WQPN 15 Extractive Industries near sensitive water resources.
- Department of Water Environment Regulation South West Region Guideline Water resource considerations for extractive industries.

### Refuelling - Fuel Management Plan

- There will be no onsite fuel storage. The loader will continue to be refuelled on site from a
  mobile tank or tanker. This method is used on most mine and construction sites as well as
  many farming properties.
- Refuelling on site will occur in the active pit area to allow for containment if any spill did occur.

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

- The main risk of contamination is the minor drips that occur during the removal of hoses etc. Minor spills are quickly degraded by soil microbial matter.
- The only other risk is from a tank rupture, but tanks are designed to manage this eventuality and are approved to the relevant standards. Soil contaminated by large spills will be removed from the site to an approved disposal area.
- The operators of the mobile refuelling facilities are trained in re-fuelling duties including the management of any spills.
- In the event of a spill or adverse incident, activities will be stopped in that area until the incident is resolved.
- Spillage will be contained in plant and working areas by shutting down plant or equipment
  if the plant or equipment is the source of the spill (provided it is safe to do so). The sand
  will provide high absorbency and will retain any spill.
- · Soil contaminated by spills will be removed from the site to an approved disposal area.
- All significant adverse incidents (such as a fuel spill of >5 litres) in one dump, are to be recorded, investigated and remediated. A record is to be kept of incidents, and DWER, and City of Busselton notified within 24 hours of an incident.

### 6.13 Servicing and Maintenance

Documents specific to the fuel and maintenance are the DWER Water Quality Protection Guidelines for Mining and Mineral Processing

WQPN 15 - Extractive Industries near sensitive water resources.

The main risk of contamination comes from tank or hose rupture on earth moving machines.

- All major servicing of vehicles will be conducted off site.
- The loader will continue to be parked at a secure site at night and minor servicing will be conducted there.
- Regular inspections and maintenance of fuel, oil and hydraulic fluids in storages and lines will be carried out for wear or faults.
- In the event of a small service item being required during operations, such as lubricating and maintenance activities, these will be carried out in designated areas in the pit. Equipment for the containment and cleanup of spills is to be provided as required.
- Waste oil and other fluids derived from the routine maintenance of mobile machinery, will be transported off site and disposed off at an approved landfill site. Grease canisters, fuel filters, oil filters and top-up oils are stored in appropriate containers in a shed or brought to the site as required.
- If any spillage occurs it will be contained in the plant and working areas by shutting down plant or equipment if the plant or equipment is the source of the spill (provided it is safe to do so).
- Accidental spill containment and cleanup protocol will be implemented as necessary.

Updated Water Management Plan – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

Non essential or old operating plant and materials will be removed from the site. Locked gates and the existing fences will be maintained to prevent illegal dumping and contamination of water.

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- There will be no waste disposal on site. Wastes generated will be recycled wherever possible and periodically disposed of at an approved landfill site. Any waste materials derived during routine maintenance activities will be stored in appropriate sealed containers within a designated storage area or taken from site and disposed of at an approved facility.
- Regular inspections (at least weekly) are conducted to ensure no wastes, litter and the like are present in or around the excavation and processing area.

Prepared by

Lindsay Stephens



Lindsay Stephens BSc (Geology), MSc (Plant Ecology)

1/ 49 Birdwood Avenue, Como WA 6152

Mem Aus Geomechanics Soc – MEIANZ – FIQA

Tel 08 9474 3978, landform@iinet.net.au

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## AERIAL LOT 101, GIBB ROAD, KALOORUP 331,500 330,000 333,000 334,500 Minor Town DEC Managed lands - Marine Marine Management Area Marine Nature Reserve Marine Park Watercourse mask Water Course - Major DEC Managed lands - Land 5(1)(g) Reserve, A 5(1)(g) Reserve, C 5(1)(h) Reserve. 5(1)(h) Reserve, A 330,000 333,000 334,500



Recommend Reference for this map is: Geological Survey of Western Australia 2018, AERIAL LOT 101.
GIBB ROAD, KALCORUP extracted from GeoVIEW.WA. on 16/09/2018 Perth, Western Australia. Department of Mines, Industry Regulation and Safety.



Geological Survey of Western Australia Killometers

NOTE: Scale is calculated at the centre of the map. Scale representative fraction will vary in a North South direction.

The data presented herein are interpreted, and made available in good faith and derived from sources believed to be reliable and accurate at the time of release. You should not solely rely on this information when making a commercial decision.

Marine Nature Reserve, A

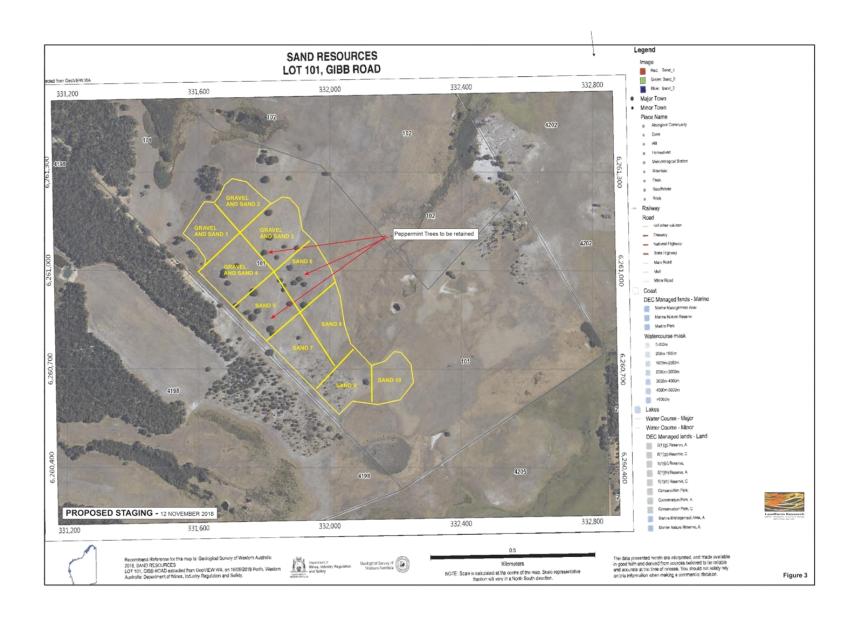




MARGARET RIVER NATURAL RESOURCES LOT 101 GIBB ROAD, KALOORUP AMENDED TRANSPORT ROUTE

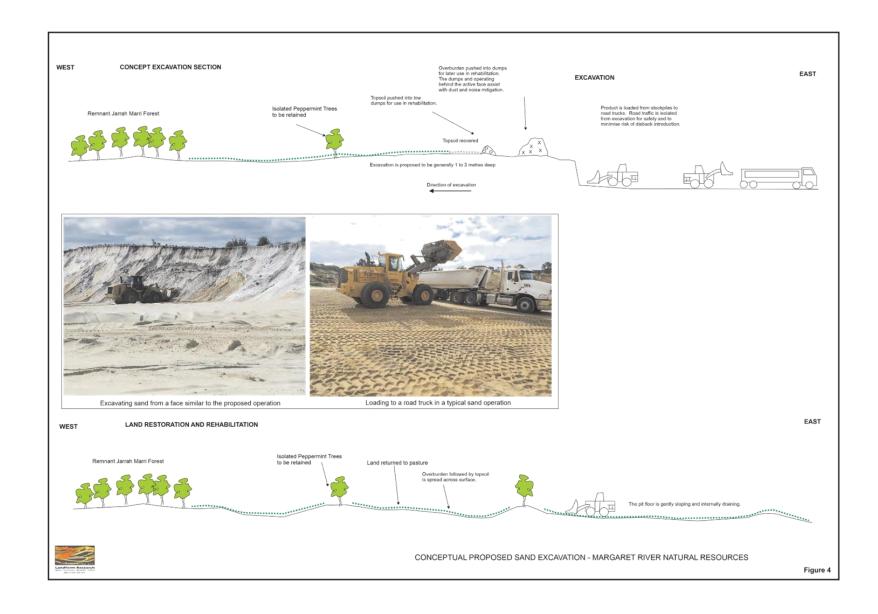
15 JULY 2019





## Attachment C Explanatory Reports and N

## 192 Explanatory Reports and Management Plans

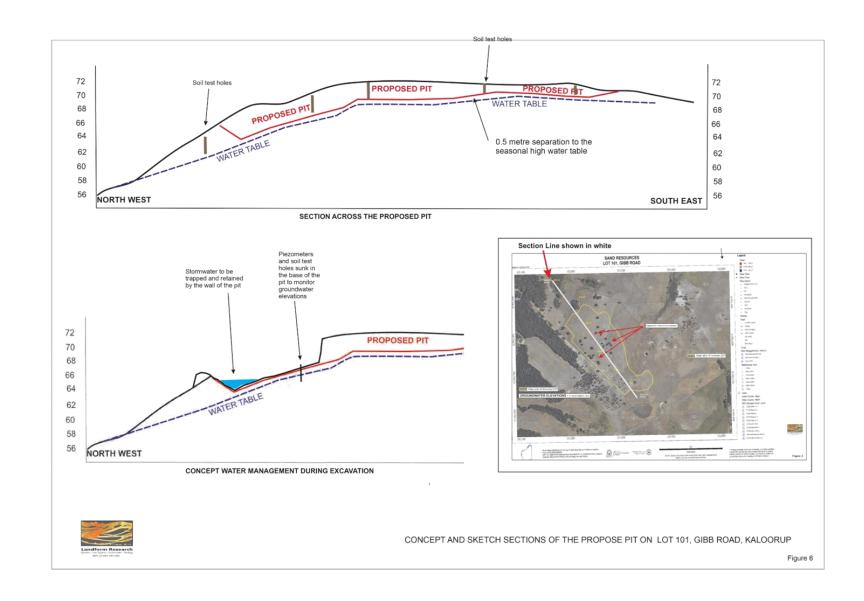


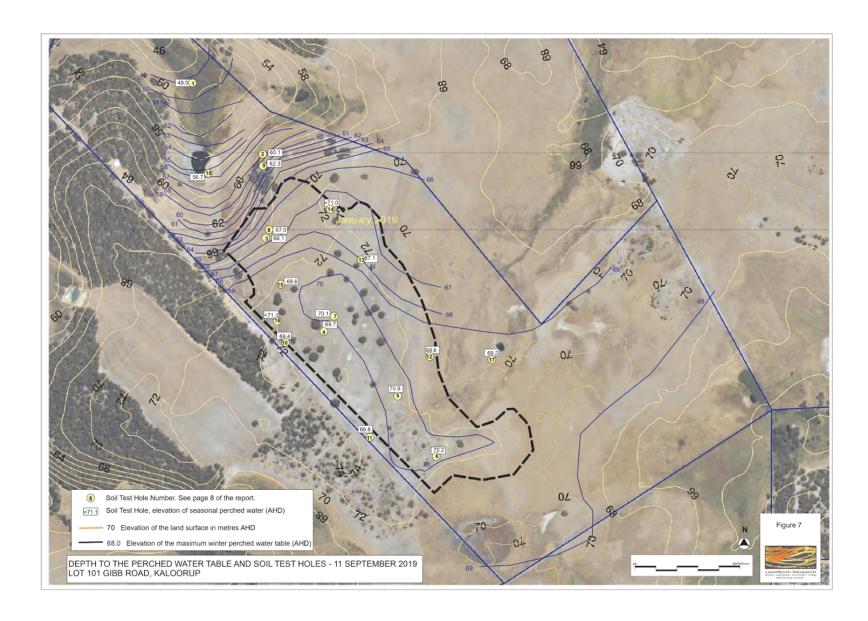
#### Attachment C **Explanatory Reports and Management Plans**



CONTOUR PLAN OF LOT 101, GIBB ROAD, KALOORUP

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# 196 Attachment C Explanatory Reports and Management Plans



### Attachment C

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

**Explanatory Reports and Management Plans** 

### AMENDED TRAFFIC ROUTE AND MANAGEMENT

GIBB - NORTH JINDONG AND ROY ROADS

PROPOSED SAND PIT, LOT 101, GIBB ROAD KALOORUP

13 September 2019

### Summary

The proposed amended transport route for pit traffic along the northern section of Gibb Road to North Jindong Road and Roy Road to Bussell Highway, provides an ability to quickly reach a much safer section of road than was previously proposed along Gale Road.

There is 1.5 km of gravel road along which the trucks will travel and that becomes a traffic management issue for which Margaret River Natural Resources has proposed a Transport Management Plan (attached).

The proposed truck traffic complies with the City of Busselton for the width, construction and current traffic movements along Gibb Road.

Prepared by



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Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

### Amended Transport Route

The original transport route was proposed to cart the sand through Lots 4205 and Lot 1 Gale Road and then along Gale Road.

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On review of the transport options the transport of sand through Lots 4205 and Lot 1 Gale Road and along Gale Road is not now considered the best option.

There is a better and safer option by using North Jindong Road and Roy Roads, which are bitumen roads with two lanes marked by lime marking. Also the City of Busselton have advised that Payne Road is a RAV Network 3 with Conditions, indicating its safer formation.

On the other hand Gale Road, whilst sealed, has several sharp corners where the truck traffic has to slow down. The seal coat is only single lane, meaning that trucks and other vehicles will have to slow and leave the bitumen. See the attached Figures. Figure 1 for location and 7, 8 and 9 for photographs.

Gale Road has been used for the transport of sand and gravel for many years by local operators but is considered less safe than using the amended transport route.

On the other hand Gibb Road has a seal coat for the northern section with the remainder being gravel road in good condition with a width of 7 metres and a transport length of gravel of 1.5 kilometres.

This gravel portion of Gibb Road has very low traffic counts and appears to be used solely to access several dwellings on the section of road.

The sealed section of Gibb Road was constructed to enable the transport of gravel from the City of Busselton Pit with that pit at the northern end of Gibb Road appearing now to only have minor use and use by off road trail bike riding.

The revised transport route is;

- Lot 101 Gibb Road
- Gibb Road north
- Payne Road North Jindong Road
- Roy Road
- Bussell Highway

### Scale and Intensity of the transport

The proposed scale and intensity of the transport is not proposed to change.

The number of truck movements will vary throughout the year depending on the size of contracts. To transport the required amount of sand a certain number of trucks must be used.

Road transport will use a variety of road approved vehicles such as rigid trucks, semi-tippers (16 to 26 tonnes) or rigid (8) wheeler tippers (3-15 tonnes) and potentially with a 5 axle dog trailer.

With a calculated volume of sand of 200 000 tonnes, and a ten year life of the operations, that equates to around 20 000 tonnes of sand extracted every year. However due to the variable nature of contracts, up to 30 000 tonnes of sand is anticipated to be transported in any one year.

With an average truck size of say 25 tonnes that equates to up to 1 200 laden truck movements in any one year for 30 000 tonnes extracted. If sand was transported on 200 days of the year that equates to an average of 6 laden truck movements per day.

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Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

There could be a slightly higher daily average number of truck movements if more smaller trucks access the site. For example if the average load is 20 tonnes then the average number of truck movements to cart 30 000 tonnes of material annually will be 7.5 trucks per day. In any case the average will be less than one per hour.

To be conservative an average of 10 vehicles are suggested per day on 200 days per year allowing for staff and service vehicles.

However with the nature of sand sales, there will be times when more trucks arrive on a particular day and times when there will be less.

A condition of a maximum of 30 trucks on any one day is acceptable to Margaret River Natural Resources.

In addition it is suggested that for a large contract the Shire of Busselton be notified at least 1 week prior to the commencement of a large contract and informed of the tonnages, likely truck movements and anticipated volumes to be transported during that contract. This process is used at other sand pits and provides the City with an opportunity to discuss any specific issues with the operator.

A road maintenance agreement will be determined with the City of Busselton based on the City of Busselton Planning Policy 5, Rural Land Use and Development Policy 2010.

### Existing road

City of Busselton Engineers completed traffic counts along Gibbs Road in May-June of this year. (source City of Busselton)

These traffic counts indicate approximately "30 vehicle per day annual average day traffic" on Gibb Road.

The count was taken 2.6km north of the intersection with Gale Road which is around the location of the entrance to Lot 101.

In addition the City advises that the traffic count was an annual average of 30 vehicles per day. They also advised that there is currently an application for the harvesting of a BlueGum Plantation which will add to the truck movements along Gibb Road. It is estimated that 8 truck movements will be added as a result of the tree harvesting. That will take the average daily traffic to 38 movements per day.

No speed data was available.

If a conservative additional traffic of 10 vehicles per day are added then the current daily traffic loading, on an annual basis, increases to around 48 vehicles average maximum per day.

City of Busselton advised that their last Engineer's inspection of Gibbs Road it was an unsealed road with a 7m wide formation, which is similar to the measurements made by Margaret River Natural Resources on 11 September 2019.

The City of Busselton advised that their engineering section do not have issues with transport vehicles turning right on to Gibbs Road to Payne Road. Payne Road is a RAV Network 3 With Conditions, so this would be preferable to heading south to Gale Road, which is not on the RAV network.

Data provided by the City of Busselton is summarised in the table below. Using the City measurements of 7 metre width gravel then up 70 daily average number of vehicles is applicable as shown in the table below supplied from the City of Busselton. With the predicted average of around 48 vehicles the vehicle movements comply with the current road construction.

It is also noted that the City of Busselton graded Gibb Road on 11 September 2019.

Amended Access Route - Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup Margaret River Natural Resources

Table 3 - Seal Widths and Carriageway widths for Rural Roads

Design Traffic Volumes (AADT) (veh/day) (Note 1)	Carriageway Width (seal width + trafficable shoulders) (m)	Sealed Width (m)
0-75	7	Unsealed (see note 1)
75 - 150	7.5	3.5 (note 2)
150 - 500	8.0	6.0(note 3)
Over 500	8.0 (note 4)	7.0

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Source - Based generally on "Rural Roads Guide", Table 4.1 & 4.2

The northern portion of Gibb Road has a seal coat for the northern section with the remainder being gravel road in good condition with a width of 7 metres and a transport length of gravel of 1.5 kilometres.

That means that transport along Gibb Road becomes a management issue of the predicted truck traffic.

Therefore a traffic management program is proposed for all trucks travelling along the gravel section of Gibb Road. See the attached Traffic Management Plan.

### Site Access

Access to Lot 101 is located at the southern boundary of the lot. The gate is set back 40 metres from the property boundary of Lot 101 to enable a truck to park on Lot 101 prior to entry or exit, without parking on Gibb Road. (Figures 1, 5 and 6). See also the photograph in Figure 7.

The access road runs along the existing fire break for a distance of around 550 metres. The access is straight, with good visibility. The track has been upgraded to the point where trucks can travel safely along the road, but not to the point where the road is so good that trucks will speed. As the access road has some underlying laterite duricrust there are some natural undulations, which will act as speed humps. (Figures 1, 5 and 6). See also the photograph in Figure 7.

The internal access road will also be sheeted with gravel as necessary to provide the safe access. Gravel will be accessed from the gravel resource on the proposed extractive industry area.

For such a small sand resource it is not preferred to provide a wide road that will increase visual impact, but to provide a safe access that is more compatible with the surrounding landscape.

There is not anticipated to be a significant upgrade to the existing access road to achieve the access

The access road is not near any dwellings. The closest dwellings are to the actual entrance rather than other parts of the access road. Figures 1, 2, 3 and 4.

The distances to sensitive premises are;

- 340 metres north across thick native forest
- 460 metres south west
- 525 metres north west
- 640 metres west
- 730 metres south west.

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

With respect to the existing gravel section of Gibb Road, there are thought to be 6 dwellings set back off that section of road, set back at distances of:

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- > 130 metres minimum of 90 metres dense forest
- > 130 metres minimum of 90 metres dense forest
- 145 metres east of Gibb road with pasture and scattered trees between
- > 140 metres minimum of 50 metres forest
- > 145 metres minimum of 90 metres dense forest
- > 330 metres minimum of 90 metres dense forest

There is unlikely to be any significant increase from dust by the additional vehicles considering the scattered rain that falls through the year and the setbacks to the dwellings from Gibb Road.

Jones D N, L Bemede, A R F Bond, C Dexter and C L Strong, 2016, Dust as a contributor to the road effect zone: a case study from a minor forest road in Australia, Australia Journal of Environmental Management Volume 23, No 1 p 67 – 80 noted that dust deposition at a distance of 40 metres from a gravel road in forest varied from 8% to 30% of the deposition at the roadside depending on the level of vegetation cover. They also found that mammals were not significantly impacted by the dust compared to when the road was sealed.

In other studies dust particles have been found to be readily stopped by tree belts and distance, with which the site complies. Tree belts slow the wind and allow the dust to settle. See *Planning Guidelines Separating Agricultural and Residential Land Uses, Department of Natural Resources Queensland 1997 (Pages 65 – 111)* and *Department of Health WA, 2012, Guidelines for Separation of Agricultural and Residential Land Uses* which uses the same criteria (Pages 112 – 118).

The Queensland Guidelines predominantly relate to agricultural spray drift, but based on particle size also relate to dust.

The Guidelines provide for a buffer of 300 metres for open agricultural land, dropping down to 40 metres where an effective tree belt is in place. The Western Australian Department of Health also uses the same guidelines. The guidelines assess dust in the absence of dust control.

The Guidelines are based on field studies and demonstrate the effectiveness of tree belts and distance in providing screening against particulate travel on level ground.

The only dwelling which has less buffers is the dwelling east from Gibb Road, but this is set back behind a row of verge trees that even though they are not 40 meters wide, they are located at the edge of the road and are effective in reducing the wind speed and travel, allowing time for any dust to settle prior to the air travelling across the paddock.

In addition a speed limit of 40 kph will be imposed on truck traffic by Margaret River Natural Resources to minimise noise and dust generated from Gibb Road and to minimise any safety risks.

It is noted that being a public road the *Environmental Protection (Noise) Regulations 1997* do not apply. See Figures 1, 2, 3 and 4. See Figures 7, 8 and 9 for photographs of the transport route.

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup Margaret River Natural Resources

## Timing of the vehicles

Hours of operation will be 7.00 am to 5.00 pm Monday to Friday inclusive, excluding public holidays. This is similar to the operations of nearby quarries in the local area.

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Lindsay Stephens Landform Research Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

### **ROAD TRUCK MANAGEMENT - DRIVER INSTRUCTIONS**

### Margaret River Natural Resources Pty Ltd

All truck contractors are supplied with written guidelines on the operations of the pit.

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Drivers are inducted to the site through the Safety Management Procedures for the site.

Signs are used on site to inform drivers of their responsibilities.

Drivers found breaching site procedures are warned and their employer notified in writing. Drivers breaching procedures on a second occasion are banned from the pit.

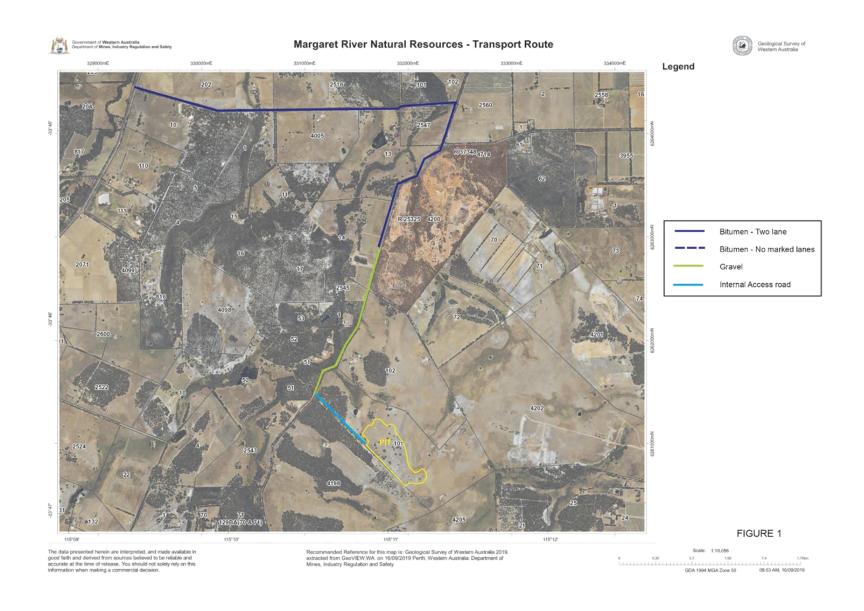
- All companies and contractors transporting sand or gravel will be informed of the operating hours and procedures applying to their contract.
- All trucks must arrive at the site clean and free from earth, sand, gravel, clay, vegetable matter or grain seed. Trucks not clean will not be permitted to be loaded.
- 3. There will be no cleaning or tip off at site.
- 4. All truck drivers and companies will be informed of the "normal operating hours of 7.00 am to 5.00 pm" Monday to Friday, excluding Public Holidays.
- 5. Trucks will be permitted to enter the site and be parked prior to the "start time", to remove the safety hazard of parking on Gibb Road or within the community.
- 6. Parking on Gibb Road is not permitted.
- 7. On entry, trucks will be required to park and wait to be loaded.
- 8. On entry trucks will radio forward of entry on the allocated UHF radio channel.
- Trucks are to enter the site at low power and make their way to the pit to wait for loading or instruction.
- 10. Trucks will not be loaded prior to the "start time".
- 11. Trucks are to leave the pit under low power.
- 12. The speed limit along the access road and within the pit is 25 kph.
- 13. Trucks are to swing anticlockwise into the pit to be loaded.
- 14. Trucks are not permitted to reverse except for safety or emergency.
- 15. No excessive revving of engines on roads is permitted near or within the site apart from safety considerations.
- 16. No air or exhaust brakes are to be used within the pit or on nearby roads except for emergency.
- 17. No horns are to be sounded within the pit or nearby except for emergency.

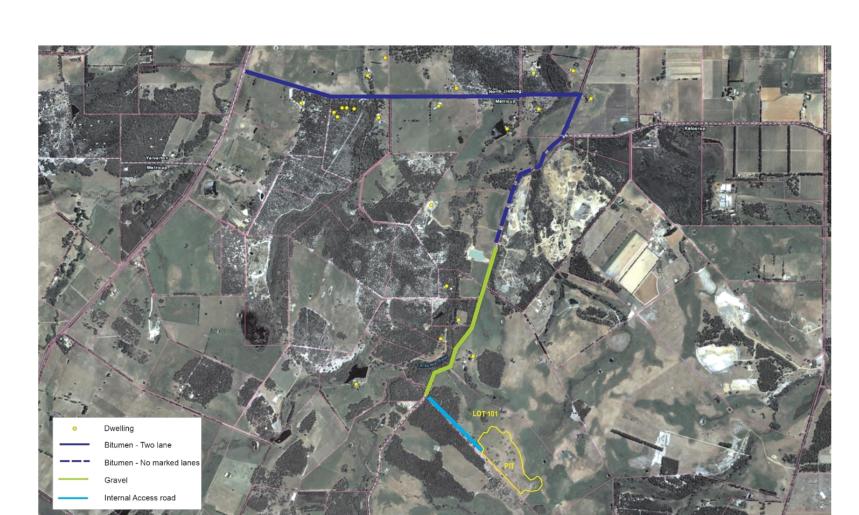
Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup Margaret River Natural Resources

- 18. Truck drivers are not permitted to leave the cab during loading unless they are located in a safe or designated place.
- 19. Communication between trucks and the loader will be via radio and eye contact.

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- 20. Prior to leaving the pit all loads must be secured by tarpaulins or other suitable cover for minimising the loss of sand or gravel.
- 21. Prior to leaving site trucks are to be inspected by the drivers for sand or gravel or other materials adhering to the trucks.
- 22. Trucks are to slow to 40 kph when travelling on the gravel section of Gibb Road.
- 23. Drivers failing to adhere to the "Road Truck Management" will be banned from the pit.



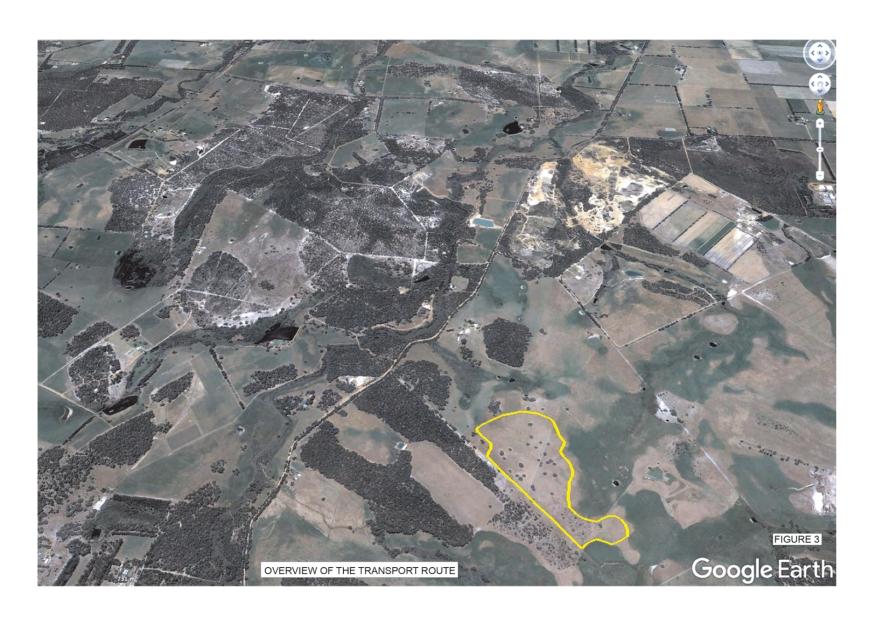


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LOCATION OF DWELLINGS

FIGURE 2

## Attachment C









Location of the access road along the existing fire break

LOCATION OF THE ACCESS ROAD

FIGURE 5



LOCATION OF THE ENTRANCE CROSS OVER AND GATE FIGURE 6

## Attachment C Explanatory Reports and Management Plans

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Access from Gibb Road. Note gate set back to allow for truck parking and passing



Gibb Road south of Gersbach Road



Gibb Road, north from the access point



Gibb Road, north of Gerbasch Road

FIGURE 7









View south along North Jindong Road to intersection with Payne Road (left) and Gibb Road (right)



Roy Road vew west from North Jindong Road

FIGURE 8

25 March 2020













Roy Road central west

FIGURE 9

## Summary of Submissions - Initial Round (2018)

### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

## SUBMISSIONS CLOSE: 31 October 2018 OFFICER: Joanna Wilkinson/Stephanie Navarro

		ADDRESS		
CO. (T	NAME	ADDRESS	Nature of Submission	Comment
	AUTHORITIES			
1.	Water Corporati	ion	The Subject Land is within the Busselton Drainage District (See attached Plan)  The Water Corporation would expect that there will be no adverse flows from this activity as stated in their Documentation, and the Department of Water should be asked to comment if they haven't already be contacted.	Noted. Advice has been sought from Dept. Water and Environmental Regulation.
2.	Main Roads		No objection subject to the following condition:  • The proponent will comply with Main Roads Heavy Vehicles Services haulage routerequirements/	Recommend advice note.
3.	DWER (Natural I	Resource Management)	As per email from Brendan Kelly, Senior Natural Resource Management Officer - Department of Water & Environmental Regulation, dated 8/11/18, 17/01/19, 21/01/19 and 30/01/19, further information required to assess impact on groundwater.  Final Email from Brendan Kelly, Senior Natural Resource Management Officer, dated 26/11/19:  Further to extensive discussions and emails regarding this proposal.  As advised, DWER now has an updated report 'Updated Water Management Plan, Landform Research, 21 October 2019' (Landform).  Firstly, it is clear that the test holes 7, 8, 13 & 15 (Landform, test hole photographs), which are located centrally and to the north-west within the proposed area of operation, have intercepted groundwater.  It is also apparent that groundwater was intercepted in test holes 5 & 6 (Landform, Table 'Soil test hole results', p.8), located centrally and to the south-east within the proposed area of operation.  Landform indicates that groundwater beneath the site appears to contour roughly from 71 mAHD in the south-east to 67mAHD in the north-west of the proposed extraction area.  It is notable that the depth of resource to be recovered will depend on the local topography.  Irrespective, the extraction of sand will be required to remain clear of the groundwater table and this is able to be achieved by the proponent's preferred 'push-up' method of extraction, rather that working to a sand face.  Recommendation  DWER recommends that the City of Busselton apply conditions to any development approval, to maintain a separation distance from groundwater of a suggested 0.5 metre.	Additional information and monitoring requested from Application. Further analysis undertaken and application re-referred to DWER. Refer to follow up response in Attachment E to Council report.

Attachment D

### SUMMARY OF SUBMISSIONS

PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

SUBMISSIONS CLOSE: 31 October 2018 OFFICER: Joanna Wilkinson/Stephanie Navarro

		DWER also recommends the following conditions apply:	
		The extractive industry shall not intercept the water table at any time.	
		<ul> <li>If any interception of groundwater occurs, work shall cease and an advice notice provided to the Shire within 48 hours, followed by agreed remedial action.</li> </ul>	
		Dewatering of the extraction area is not permitted without authorisation under the 'Rights in Water and Irrigation Act 1914'.	
		<ul> <li>There shall be no standing water occurring at the end of the extractive operation / post rehabilitation.</li> </ul>	
		There will be no storage of hydrocarbons, coolants or lubricants on-site.	
		<ul> <li>On-site refuelling of equipment will be from a mobile service vehicle carrying appropriate spill prevention and clean-up equipment.</li> </ul>	
		No major repairs or maintenance will take place on site.	
4.	DWER (Contaminated Sites)	Lot 101 has not been reported to DWER as a known or suspected contaminated site and DWER holds no records for the site. However, DWER understands that truck access to the site is proposed to be through Lot 1 and Lot 4205 Gale Road.	Applicant no longer proposed to take access to Gale Road via Lot 101 and therefore these comments are considered no longer applicable.
		Land at Lot 1 on Plan 54810, as shown on certificate of title 1511/662, was classified under section 13 of the Contaminated Sites Act 2003 (CS Act) as possibly contaminated – investigation required on 12 April 2018.	аррисаме.
		The classification was based on information that Lot 1 has been used for the disposal and possible burial of waste including building and demolition waste. Waste disposal by burial is a land use consistent with landfilling and has the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (Department of Environment Regulation, 2014).	
		Aerial photographs and a site inspection by a DWER Compliance Officer in April 2018, identified large stockpiles of demolition waste including fragments of potential asbestos-containing material (PACM) within Lot 1.	
		Based on the available information, DWER has no objection to the proposed extractive sand mining activity within Lot 101. However, there is the potential for the release of asbestos fibres to the air, associated with disturbance of demolition waste if trucks are allowed through Lot 1. DWER recommends that if another route is not sought, any approval should include the following advice note:	

## Summary of Submissions - Initial Round (2018)

### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

SUBMISSIONS CLOSE: 31 October 2018 OFFICER: Joanna Wilkinson/Stephanie Navarro

	<b>Advice</b> An appropriate management plan should be prepared to address the risks associated with potential disturbance of waste and asbestos-containing materials from vehicles driving through Lot 1.	
	Amended route through Lot 1 referred to DWER on 22 July 2019. Email response from Samantha Lakin, Environmental Officer, Contaminated Sites, Science and Planning with referral response attached and dated 26 July 2019:	
	I refer to your email to the Department of Water and Environmental Regulation (DWER) on 22 July 2019. Your email requests that DWER review information provided in the Traffic Assessment and Management Plan (the management plan) and comment on whether it provides appropriate management measures to address potential contamination risks associated with truck traffic through Lot 1 Gale Road, Kaloorup (the site).	
	The initial application (DA18/0674) proposed a truck route through the centre of the site. DWER provided advice dated 1 November 2018 recommending that if an alternate route is not sought, then an appropriate management plan should be prepared to address the risks associated with potential disturbance of waste and asbestoscontaining materials by vehicles driving through the site.	
	DWER understands that the applicant has proposed an alternate route through Lot 1. The amended route appears to travels along the fence line and fire break on the northern, eastern and south-eastern boundaries of the site. DWER considers the amended route more suitable and may reduce the risk of encountering contaminated materials.	
	The management plan states that the amended route will be covered in gravel to allow a hard surface for truck traffic, and will be inspected prior to gravel deposition, with any foreign materials to be collected and disposed of at an appropriate landfill.	
	Based on the information provided, subject to the truck route being located along the boundary of the site as described in the management plan, DWER considers the measures outlined appropriate.	
DBCA	No objection subject to the following advice:  DBCA supports the stated intention to retain WA Peppermint trees with 10m buffers, and the planting of additional WA Peppermint trees to enhance the site's fauna corridor linkages.  fclearing of vegetation is unavoidable, a permit should be applied for from DWER. The environmental values are likely to be impacted by the proposal and these will be through the assessment of a clearing permit.	Noted.
C SUBMISSIONS – YOUR SAY		
Nathan Tognela	We are residents living across the road from this proposed development. We are strongly opposed and have the following concerns. — Increased traffic on Gibb Road which is still gravel and very narrow and windy. This is our major concern given increased heavy traffic, we do not want trucks on this road given it's currentstate.  Dust and noise, we live in a rural setting and do not want increase dust or noise.  Length of time of this development is of concern.	<ul> <li>Refer to report regarding traffic along Gibb Road.</li> <li>Refer to report regarding amenity impacts along Gibb Road.</li> <li>Approval will be limited to 5 years in accordance with LPPSA.</li> </ul>
	C SUBMISSIONS – YOUR SAY	An appropriate management plan should be prepared to address the risks associated with potential disturbance of waste and asbestos-containing materials from vehicles driving through Lot 1.  Amended route through Lot 1 referred to DWER on 22 July 2019. Email response from Samantha Lakin, Environmental Officer, Contaminated Sites, Science and Planning with referral response attached and dated 26 July 2019;  I refer to your email to the Department of Water and Environmental Regulation (DWER) on 22 July 2019. Your email requests that DWER review information provided in the Traffic Assessment and Management Plan (the management plan) and comment on whether it provides appropriate management measures to address potential contamination risks associated with truck traffic through Lot 1 Gale Road, Kaloorup (the site).  The initial application (DA18/0674) proposed a truck route through the centre of the site. DWER provided advice dated 1 November 2018 recommending that if an alternate route is not sought, then an appropriate management plan should be prepared to address the risks associated with potential disturbance of waste and asbestos-containing materials by vehicles driving through the site.  DWER understands that the applicant has proposed an alternate route through Lot 1. The amended route appears to travels along the fence line and fire break on the northern, eastern and south-eastern boundaries of the site.  DWER considers the amended route more suitable and may reduce the risk of encountering contaminated materials.  The management plan states that the amended route will be covered in gravel to allow a hard surface for truck traffic, and will be inspected prior to gravel deposition, with any foreign materials to be collected and disposed of at an appropriate landfill.  Based on the information provided, subject to the truck route being located along the boundary of the site as described in the management plan, DWER considers the measures outlined appropriate.  DBCA  No objection subject to the following advice:

#### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

#### SUBMISSIONS CLOSE: 31 October 2018

OFFICER: Joanna Wilkinson/Stephanie Navarro

2.	Karen Galloway  241 Gale Road Metricup	OBJECTION – FIRST SUBMISSION  I reside at 241 Gale Road in Metricup, and I hereby wish to lodge an objection to the proposed access route for this application.	•	Gale Road no longer proposed to be used as part of Haulage Route.Refer to report regarding traffic along Gibb Road.
		The topography of this section of Gale Road is not suitable for large volumes of heavy trucks, with sharp bends and road narrowing at the creek line. The Augusta-Margaret River school bus also uses this section of Gale Road, with turning point in front of our entrance ways.  We already have a substantial amount of truck traffic on Gale Road from other pits in this area. Permitting additional trucks from yet another pit will exacerbate the situation. The City of Busselton has a duty of care not to permit any additional heavy vehicles along this particular route. The potential cumulative impact of truck traffic on Gale Road is concerning, should yet another pit be permitted to use this road. There are also 2 tourist attractions on Gale Road, being The Beer Farm and ChurchView Wine Estate. Increased volumes of truck traffic has the potential to negatively impact tourism. The proposed extractive industry is on Gibb Road, Kaloorup. The northern end of Gibb Road leads directly onto Payne Road and provides direct access for truck traffic. The initial northern section of Gibb Road is already bitumised.		

#### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

	Karen M Galloway (email)  241 Gale Road Metricup	DBJECTION – SECOND SUBMISSION     I am becoming increasingly concerned about the number of sand and gravel pits operating within our area.     There have been many sub-divisions in this area over the years, with more and more people living in closer proximity to each other.	•	Number of existing operations within the area not a valid planning consideration.  Setbacks of proposed operations
		Consequently all these pits are starting to impact more and more residents.  Dust producing industries should not be permitted to operate in these populated areas, particularly areas with tourist attractions, which by their very nature are designed to attract people into the area. This region has a "clean and green" image for tourism.  The dust emitted from these extractive industries goes into the environment and people living in the vicinity are affected.  I would appreciate the City of Busselton considering the health risks that residents are potentially being subjected to in this area as a result of all these extractive industries operating.  Research has shown that it only takes a very small amount of airborne silica dust to create a health hazard.  Silica dust is a known carcinogen. (It is worth noting that respiratory diseases are totally preventable).	•	assessed against and deemed to meet LPP5A. Dust management plan and dust bond to be condition of approval.
3.	Martin Staines & K Cameron 496 Gibb Road METRICUP	OBJECTION  Operated a flower and tree farm since 2004. located 500 metres north-west of the intersection between Gibb and Gale Roads and 2km from the proposed development. Concerns regard traffic Safety along Gibb and Gale Road as a result of additional traffic movements and potential conflict between trucks and cars. Concerns regarding compliance of extractive industry practices		Gale Road no longer proposed to be used as part of Haulage Route.Refer to report regarding traffic along Gibb Road.  Ongoing compliance of the site to be managed via conditions of development approval.
4.	Sandy Muir	Concerns regarding use of Gale Road. Gale Road should upgraded. Opposed to haulage on weekends.	•	Gale Road no longer proposed to be used as part of Haulage Route. Refer to report regarding traffic along Gibb Road. Haulage limited to weekdays as per a condition of development approval,
5.	Giancarlo Bertelli	OBJECTION     Concerns regarding haulage along Gale Road and potential safety implications.	•	Gale Road no longer proposed to be used as part of Haulage Route.Refer to Council report regarding traffic along Gibb Road.
6.	Neil Galloway  241 Gale Road, Metricup	Concerns regarding use of Gale Road as part of Haulage Route.     Concerns regarding operations 6 days a week and for 10 years.	•	Gale Road no longer proposed to be used as part of Haulage Route. Refer to Council report regarding traffic along Gibb Road.

#### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

			<ul> <li>Haulage limited to weekdays as pera condition of development approval.</li> <li>Approval limited to 5 years as per condition of approval.</li> </ul>
7.	Joe Lacopo 365 Gibb Road KALOORUP	Concerns regarding vehicle movements indicated within supporting documents. Concerns regarding ongoing compliance of extractive industries within the City. Concerns with inadequate rehabilitation of other extractive industries within the locality. Inadequate weed management practices proposed. Not in keeping with the rural character of the area and vision of a tourist locality.	Traffic impact assessment provided in support of proposal. Would condition maximum number of truck movements per day. Gale Road no longer proposed to be used as part of Haulage Route. Refer to Council report regarding traffic along Gibb Road. Ongoing compliance of the site to be managed via conditions of development approval.  Weed management plan would be condition on development approval.
PUBLIC	SUMISSIONS – EMAIL/OTHER		
8.	Ross Booth  274 Gibb Road KALOORUP	SUPPORT (SUBJECT TO ACCESS ROUTE) We have no issues with the proposed industry, providing the access remains via Gale Road for the term of the industry.	Noted.
	Ross Booth 274 Gibb Road KALOORUP,	Concerns regarding noise.	Refer to Council report regarding noise impacts.
9.	Peter & Ellen Buswell 5 Harnett Street BUSSELTON	1. Margaret River Natural Resources has operated in the area since 2000 – at Tanah Marah Rd in Osmington, Harman's Mill Rd in Metricup. The rehabilitation in both previous pits has been of a high standard.  2. The sandpit could produce filter sand which is used by the local community. The filter sand is used by the local community – including Busselton Water (supplying 25,000 local residents) – local dairies, wineries, farmers, water drillers, landscapers.  3. The sandpit operators have a history of value adding to the resource – screening and washing to produce a range of products – of course filling sand would also be available. Gravel produced is also useful to the community as a whole.	Noted
10.	G & K Coulson	OBJECTION	

#### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

	(Deadline Group Pty Ltd) 43 Gersbach Road KALOORUP	Increased number of trucks in the area which is deteriorating the condition of roads and turning the area into an extraction pit.  The chances of the trucks taking Gibb Rd to access Payne Rd is increased.  There are already enough sand and gravel extraction businesses in the area.		Gale Road no longer proposed to be used as part of Haulage Route. Referto Council report regarding traffic along Gibb Road.  Number of other operations within the area is not a valid planning consideration.
11.	Deborah & Mark Pettersson  465 Gibb Road KALOORUP	<ul> <li>Numerous examples of non-compliance on the site.</li> <li>Concerns regarding existing vehicle movements along Gale Road.</li> <li>No written consent has been provided by the owners of Lot 4205 and Lot 1 Gale Rd</li> <li>DWER is currently investigating the illegal dumping on nearby extractive</li> <li>Lot 4205 has just begun extraction and plans to remove approx. 200 old peppermint trees, possibly containing WRP. Their clearing permit required them to plant 180 peppermint trees prior to clearing but this has not been done.</li> <li>In order for an easement road to go through lot 4205 and be constructed, further clearing of trees could be necessary. This should not be permitted until the existing clearing permit has been amended. There could also be the need to remove possums.</li> <li>Dust and noise from truck movements is likely to impact heavily on our farming practices(cattle).</li> <li>Potential impacts on water courses through our farm drain down from Lot 1 and we are fearful that the construction of an access road and vehicle movements may disturb suspected contaminated waste and contribute to possible air and water contamination.</li> <li>The proposed depth of excavation and removal of sand does not ring true – the water table will be affected.</li> <li>We strongly object to a 10 year licence; it should be 5 years to allow for proper compliance.</li> <li>Concerns regarding operation hours on weekends die to number of tourist operations on the Gale Rd – the Beer Farm, Churchview Estate and the mountain bike group.</li> <li>Would like to see the transport route changed to north on Gibb Rd and then to Roy Rd and Payne Rd, which is a gazetted heavy haulage route.</li> <li>There is no traffic management plan in the application. The applicant underestimates the impact of the 2.5km access Rd and transport route along Gale Rd (also a school bus route). The dust from the easement road would be significant, and a full-time water tank needed through summer</li></ul>		No outstanding compliance matters on the site.  Access through Lot 4205 and Lot 1 no to Gale Road no longer proposed to be used as part of Haulage Route.Refer to Council report regarding traffic along Gibb Road.  Applicant has confirmed peppermint trees to be retained — Tree management plan to form condition of approval.  Location of access track would need to be confirmed.  Dust and noise management to be be submitted.  Access track would need to ensure that stormwater run-off is contained within their site.  Water table issue has been addressed via further water monitoring.  LPP permits a 5 year approval with option to renew.  Condition on approval would limit operating hours to comply with LPP.  Transport route would be conditioned.
	Deborah & Mark Pettersson 465 Gibb Road KALOORUP	Potential health impacts that arise from exposure to silica, ie through cutting, grinding, drilling or otherwise disturbing silica dust.	:	Dust would need to be managed. Applicant has advised that no vegetation is to be cleared. City undertook our own referrals.

#### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

			Remaining vegetation is located within a threatened ecological community buffer. A clearing permit would be required.  Statement that the proposal has been discussed with all adjoining landowners who are supportive of the proposed operation – incorrect. Several nearby residents oppose the proposal.  Suitable buffer distance cited in the report is not correct, but should be determined based on the size of the operation.  No traffic management plan or study has been completed.  Consideration of viewsheds has not included visual impact for nearby residents.  Groundwater levels are assumed, not definite.	Buffers in accordance with LPP     Traffic information submitted by applicant.     Bunding would assist in reducing visual impact of activities.     Groundwater issue remains unresolved.
12.	1.	J Hughes	SUPPORT – PRO FORMA LETTER	21 signatories on separate pro-forma letters.
30000	32-9-	122 Strelly St Bsn		
	2.	S Carmichael	The products which will be produced will be of value to the community as a whole; at a basic level sand &	Noted that none of the signatory addresses
		35 Barlee St Bsn	gravel.	are within close proximity to the
	3.	L Carmichael	The further value adding by washing and screening to produce filter sand, as supplied to Busselton Water	development site.
		4 Quail Cove Bsn	which in turn supplies 25,000 local residents with drinking water.	
	4.	E Burges		
		59 Barlee St Bsn		
	5.	S Peatling		
		5 Chidley Cove West Bsn		
	6.	A Lloyd		
		1 Lorikeet Loop Broadwater		
	7.	D Crowther		
		2 Currawong Dve Broadwater		
	8.	A Vanmaris		
		297 Marine Tce Bsn		
	9.	R May		
		29 Maslin St Capel		
	10.	M Johnson		
		21 Walpole Loop Yalyalup		
	11.	T Lewis		
		2 Fentrail Pl Bsn		
	12.	M Best		
		3 Trojon Cl		
	13.	A, F & T Higgins		
		31 Provincia Pde Yalyalup		
	14.	D Nicholls		
		78 College Ave Bsn		
	15.	J Newman		
	Saute a	7 Cloisters Cove Bsn		
	16.	L Bornatici		

#### SUMMARY OF SUBMISSIONS

PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

	16 Bullock Ct Bsn 17. <b>A &amp; J Pontague</b> 11 Lavender Garden Yalyalup		
13.	Robert Tognela  278 Gibb Road  METRICUP	SUPPORT  Every house block, industrial or commercial development past, present and future requires sand fill and gravel and including open space and playgrounds.	
14.	Robert Tipper 390 Gibb Road METRICUP	OBJECTION  Gale Road is not capable of safely handling the level of truck traffic proposed. Concern with increased traffic from additional developments.	Road upgrades have been assessed.

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

### SUBMISSIONS CLOSE: 31 December 2019

OFFICER: Stephanie Navarro

	NAME & ADDRESS	Nature & Summary of Submission	Comment
GOVT	AUTHORITIES		
1.	Water Corporation	Application was not re-referred to Water Corporation.	Noted.
2.	Main Roads	Application was not re-referred to Main Roads.	Noted
3.	DWER (Natural Resource Management)	As per email from Brendan Kelly, Senior Natural Resource Management Officer - Department of Water & Environmental Regulation, dated 8/11/18, 17/01/19, 21/01/19 and 30/01/19, further information required to assess impact on groundwater.	Recommend conditions to be placed on development approval.
		Final Email from Brendan Kelly, Senior Natural Resource Management Officer, dated 26/11/19:	
		Further to extensive discussions and emails regarding this proposal.	
		As advised, DWER now has an updated report 'Updated Water Management Plan, Landform Research, 21 October 2019' (Landform).	
		Firstly, it is clear that the test holes 7, 8, 13 & 15 (Landform, test hole photographs), which are located centrally and to the north-west within the proposed area of operation, have intercepted groundwater.	
		It is also apparent that groundwater was intercepted in test holes 5 & 6 (Landform, Table 'Soil test hole results', p.8), located centrally and to the south-east within the proposed area of operation.	
		Landform indicates that groundwater beneath the site appears to contour roughly from 71 mAHD in the south-east to 67mAHD in the north-west of the proposed extraction area.	
		It is notable that the depth of resource to be recovered will depend on the local topography.	
		Irrespective, the extraction of sand will be required to remain clear of the groundwater table and this is able to be achieved by the proponent's preferred 'push-up' method of extraction, rather that working to a sand face.	
		Recommendation	
		DWER recommends that the City of Busselton apply conditions to any development approval, to maintain a separation distance from groundwater of a suggested 0.5 metre.	
		DWER also recommends the following conditions apply:	
		The extractive industry shall not intercept the water table at any time.	

#### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

		If any interception of groundwater occurs, work shall cease and an advice notice provided to the Shire within 48 hours, followed by agreed remedial action.  Dewatering of the extraction area is not permitted without authorisation under the 'Rights in Water and Irrigation Act 1914'.  There shall be no standing water occurring at the end of the extractive operation / post rehabilitation.  There will be no storage of hydrocarbons, coolants or lubricants on-site.  On-site refuelling of equipment will be from a mobile service vehicle carrying appropriate spill prevention and clean-up equipment.  No major repairs or maintenance will take place on site.
4.	DWER (Contaminated Sites)	Application was not re-referred to DWER (Contaminated Sites)
5.	DBCA	Application was not re-referred to DBCA.

#### SUMMARY OF SUBMISSIONS

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

PUBL	IC SUBMISSIONS		
1.	Diane Smith-Gander  Service Address: PO Box 445 Cottesloe WA 6911 Impacted property address: 114 Gibb Road Metricup WA 6280	Objection (Your Say Respondent No. 1) Submission raised the following concerns:  Length of consultation period. Traffic route on the basis of disruption to vineyard operations via truck movements and dust including potential water contamination and negative health impacts to vineyard workers of dust particulate matter.  No firm commitment that only sand screening and washing would be undertaken and not clear if chemical processing is proposed on site. Clarification regarding products of extraction, processing on site and likelihood of dust requested. Request that the approval limit operations to non-vineyard operations time of year i.e. May to August.  Objection (Your Say Respondent No. 3) Follow up submission raised the following concerns: Inadequate resources to ensure compliance of operations and truck movements utilising an unapproved haulage route.  Objection (via email) Submission raised the following additional concerns: Inadequate consultation undertaken and requested extension to advertising period Additional information in relation to extractive processes and potential dust escaping from site and trucks along transport route. Request that operations be limited to non-vineyard operation time of years – May to August.	The modifications to the proposed development were initially re-advertised for the standard 14 day advertising period in accordance with clause 64 of the Planning and Development (Local Planning Schemes) Regulations 2015 (the Regulations). The original close of submission date would have been 13 December 2019. However, to the level of interested, the referral period was extended until 31 December 2019.  Transport route has been assessed against requirements of LPPSA and deemed compliant.  Dust management plan to form a condition of approval.
2.	Ross Booth  Service Address: 21a Keane Street Wembley 6014  Impacted property address: 274 Gibb Road METRICUP WA 6280	Objection (Your Say Respondent No. 2) Submission raised the following concerns:  • Width of Gibb Road and conflicts between holiday traffic and truck movement.  Objection (via email) Submission raised the following additional concerns:  • Safety along Gibb Road – insufficient room for vehicles to pass  • Potential health implications from silica.  • Inadequate water supply proposed for dust suppression.  • Impact on amenity, including noise, and property values.	Transport route has been assessed against requirements of LPP5A and deemed compliant.

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

## SUBMISSIONS CLOSE: 31 December 2019

OFFICER: Stephanie Navarro

	Treating 0200		
5.	Riki Mackenzie  Service Address: Lot 17 Irvine Road Metricup 6280  Impacted property address: Lot 17 Irvine Road Metricup 6280	Objection (Your Say Respondent No. 6) Submission raised the following concerns:  Proximity to residential areas.  Increased traffic  Noise pollution from reserving beepers on machinery.  Area has a high environmental and cultural significance.  Dust.  Alternative locations should be considered.	
4.	Amanda Petchell Service Address: 241 Gibb Road Kaloorup 6280 Impacted property address: 241 Gibb Road Kaloorup 6280	Objection (Your Say Respondent No. 5) Submission raised the following concerns: Safety concerns regarding large number of trucks utilising Gibb Road. Gibb Road is single lane with not enough room for a car and a truck (or two trucks) to pass one another. No line markings along sealed portion of Gibb Road. A number of other users of Gibb Road to be considered including livestock trucks and agricultural machinery. Concerns regarding intersection of Payne/Gibb/North Jindong Road with no signage (ie. giveway or stop) – recommend intersection be upgraded.	
3.	Pauline Orr  Service Address: 276 Roy Road Metricup 6280  Impacted property address: 276 Roy Road Metricup 6280	Objection (Your Say Respondent No. 4) Submission raised the following concerns:  Intersection of Roy and Lucy Road will become more hazardous.  Gale Road is considered the be a better and safer option than Gibb Road.  Additional traffic monitoring should be undertaken at the intersection of North Jindong Road and Payne/Roy Road as already a busy intersection.  Additional truck movements will result in additional noise and safety impacts as well as additional wear and tear on the road.  Inadequate resources to ensure compliance with approved haulage route.  Did not receive a consultation letter.	

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PROPOSAL: DA18/0674 Extractive Industry (Sand and Gravel) Lot 101 NO 285 Gibb Road KALOORUP

#### SUBMISSIONS CLOSE: 31 December 2019

OFFICER: Stephanie Navarro

	Service Address: 6 Bluejay Close WOODVALE 6026 Impacted property address 276 Gibb Road Metricup 6280	<ul> <li>Potential health impacts from dust and noise.</li> <li>Safety concerns regarding additional traffic along Gibb Road, width of Gibb Road and blindcorners.</li> <li>Noise from operations will impact amenity of the area. Property is utilised for short stay accommodation.</li> <li>Number of inaccuracies within the submission including:         <ul> <li>Climate data from Witchcliffe used in lieu of closer weather station at Jindong.</li> <li>Dwellings at 274 &amp; 276 Gibb Road not shown on Figure 2.</li> </ul> </li> <li>Large number of pits in the area.</li> </ul>
7.	Giancarlo Bertelli Service Address: 237 Gale Road Metricup 6284 Impacted property address: 237 Gale Road Metricup 6284	Objection (Your Say Respondent No. 8) Submission raised the following concerns:  Dust will have adverse impact in vines located 500m west.  Noise from traffic movements.  Adverse impact of native wildlife.  Large number of pits in the area.
8.	Anne Carter  Service Address: 52 Irvine Road Metricup 6280  Impacted property address 52 Irvine Road Metricup 6280	Objection (Your Say Respondent No. 9) Submission raised the following concerns:  Proximity to Bushland Protection lots with rare flora and fauna.  Dust on existing vineyards and surrounding dwellings  Traffic volumes along Gibb Road. Already a busy road and will require additional maintenance as a result of additional truck movements.
9.	Stuart Love  Service Address: 19A View Street Peppermint Grove 6011 Impacted Property Address:	Objection (Your Say Respondent No. 10) Submission raised the following concerns:  Road safety taking into account narrow and winding nature of Gibb Road.  Traffic data collected during May to June which is considered to be the lowest usagemonths.  Additional traffic will deteriorate road quicker.  Dust and noise impacts from vehicle movements and mining and processing of sand.

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10.	278 Gibb Road Kaloorup 6280  Guiseppe Lacopo Service Address: 365 Gibb Road Kaloorup 6280  Impacted Property Address: 365 Gibb Road Kaloorup 6280	Objection (Your Say Respondent No. 11) Submission raised the following concerns:  Safety impacts from truck movements along Gibb Road.  Impact of dust (including silica) on livestock and dams.  Environmental impacts.
11.	Brycen Godfrey  Service Address: 272 Gibb Road Metricup 6280  Impacted Property Address: 272 Gibb Road Metricup 6280	Objection (Your Say Respondent No. 12) Submission raised the following concerns:  Road safety – narrow gravel road with blind corners that can be difficult to navigated. Potential for conflict between different road users including tourism traffic, bikes etc  Health impacts from dust, including silica dust Environmental impacts including rehabilitation and impacts of flora and fauna.  Enforcement of applicable requirements.
12.	Karen & Neil Galloway  Service Address: PO Box 348 COWARAMUP WA 6284  Impacted Property Address: 241 Gale Road	Objection (via email) – Karen Galloway Submission raised the following concerns:  Compliance with proposed access route and speed limits; Impact on environment Possible extensions of time and scale of extractive. Dust produced and potential impacts on environment including vegetation Concerns regarding potential contamination of surface water, groundwater and soil. Retention of Peppermint Trees on site and impact on Western Ringtail Possum

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13.	Greg and Kathy Coulson Service Address: 285 Gibb Road Kaloorup 6280 Impacted Property Address: 285 Gibb Road Kaloorup 6280	Amount of water available to be used for dust suppression Potential impacts on groundwater and adequate separation distances to be maintained. Silica dust and potential health impacts. Number of extractives aiready operating within the area - 13 operations within a 10km radius of Gibb and Gale Road. Impact on "quiet rural area" and cumulative effect of all these extractives operating within the area.  Objection (via email) — Neil Galloway Submission raised the following concerns: Road safety as Gibb Road is a narrow and windy road with corrugation and potholes Number of users along Gibb Road including residents, viticultural and farming vehicles and tourist and recreational vehicles. Dust from truck movements, screening and stockpiles including potential health concerns. Dust suppression and monitoring methods appear to be inadequate within the supporting information. Impacts on Western Ringtail Possums and their habitat. Visual impacts Large number of other pits within the area.  Objection (via email) Submission raised the following concerns: Gibb Road is narrow and windy and becomes badly corrugated. Additional gravel dust from road will impact visibility and covervegetation. Additional traffic will result in additional wear and tear along Gibb Road which already gets potholes in winter. Potential health impacts from the processing of sand products. Insufficient water usage has been estimated in the supporting documentation for dust suppression. Ongoing issues around the monitoring and compliance.
14.	Martin Staines Service Address: PO Box 151 Cowaramup 6284	Objection (via email) Submission raised the following concerns:  Traffic Safety with a number of other pits within the area. Gibb Road not suitable to be used by trucks due to two sharp narrow bends with minimal vegetation. Health concerns from silica dust that may be emitted from the operations.
	Impacted Address:	

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	496 Gibb Road Kaloorup	<ul> <li>Inadequate assumptions within supporting information regarding amount of water needed for dust suppression.</li> </ul>
		Inadequate monitoring and compliance of extractives within the area.
15.	John Cousins  Service Address: 204 Gibb Road Kaloorup  Impacted Address: 204 Gibb Road Kaloorup	Objection (via email) Submission raised the following concerns:  Safety concerns regarding condition of Gibb Road – corrugations, overhanding trees and sharp concerns  Dust is already an issue within the area  Additional vehicle movements along Gibb Road as a result of development
16.	Malcolm Hawke Service Address: 52 Yaltara Road CITY BEACH WA 6015 Impact Address: 252 Roy Road Metricup WA 6280	Objection (via email) Submission raised the following concerns:  Additional trucks utilising Roy Road and potential safety implications in particular due to entrance to property have poor sightlines.  Health concerns regarding silica dust, including potential impacts on vineyards and livestock.
17.	Diane & Russell Tipper  Service Address 390 Gibb Road  Metricup  Impacted Address 390 Gibb Road  Metricup	Objection (via email) Submission raised the following concerns:  Safety implications from use of Gibb Road with additional haulage trucks.  Insufficient road width to accommodate truck and cars passing.  Additional wear and tear on the road resulting in the road becoming rutted and pot holed.  Health implications from dust

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18.	Deborah and Mark Pettersson  Service Address 465 Gibb Road Kaloorup WA 6280  Impacted Address 465 Gibb Road Kaloorup WA 6280	Objection (via email) Submission raised the following concerns: Condition of Gibb Road which is a gravel road and is already in poor condition from currentvehicle movements. Safety concerns regarding different vehicle uses including residents, diary and viticulture trucks. Dust emissions from screening process and potential health and safety implications. Potential for silica dust to be emitted from the process. More detailed dust information should be submitted Dust emissions from truck movements along Gibb Road Inadequate information provided regarding water source for dust suppression Ongoing compliance issues with other extractive operations within the area. Impact on amenity as a result of dust, noise and disruption to everyday life. Number of tourist operations within the area that will potential be affected by proposal including Middle Earth bike trails, Leuca Creek Farm, the Beer Farm, Churchview Estate, Southern Capes Motorcycle Club, the Humble Horse and Yelverton Brook Eco Retreat.
Late S	ubmissions	
19.	Symen and Gina Bergsma Service Address 192 Roy Road Metricup WA 6280 Impacted Address 192 Roy Road Metricup WA 6280	Objection (via email) Submission raised the following concerns:  Not notified of the application as part of the formal referral process.  Safety implications from vehicle movements along Roy Road with a number of blind spots and crests along Roy Road.
20.	Luigi & Louisa Bove Service Address 195 Roy Road Metricup WA 6280	Objection (via email sent by Symen and Gina Bergsman) Submission raised the following concerns:  • Safety implications from vehicle movements along Roy Road with a number of blind spots and crests along Roy Road.

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#### SUMMARY OF SUBMISSIONS

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	Impacted Address 195 Roy Road Metricup WA 6280 *No email*		
21.	Lauren Wilhelm  Service Address PO BOX 696 COWARAMUP 6284  Impacted Address 20 Lucy Road NORTH JINDONG WA 6280	Objection (via email) Submission raised the following concerns:  Safety implications from vehicle movements along Roy Road with a number of blind spots and crests along Roy Road.  Potential health implications from silica dust Implications on vineyards from dust Insufficient information in supporting documentation in regarding to sand screening and washing.  Concerns regarding chemical processing on site.	

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#### 7.0 NOISE MANAGEMENT

#### 7.1 Operations

Noise Management is designed to comply with Best Practise, such as Institute of Quarrying Australia/Queensland Government, Noise Management.

#### 7.2 Regulatory Framework

Noise can originate from a number of operations and may impact on onsite workers, or travel offsite and impact on external sensitive premises. Both potential noise impacts are addressed by reducing the noise generated from the quarrying and processing operations.

Offsite noise is governed by the Environmental Protection (Noise) Regulations 1997.

The Environmental Protection (Noise) Regulations 1997, require that sensitive premises including dwellings in non industrial and rural areas, are not subjected to general noise levels (excluding blasting), during the hours 7.00 am to 7.00 pm Monday to Saturday that exceed 45 dBA. Allowable noise to 55 dBA is permitted for up to 10% of the time and to 65 dBA for 1% of the time. Noise levels are not to exceed 65 dBA during normal working hours.

Between 9.00 am and 7.00 pm on Sundays and Public Holidays, and between 7.00 pm and 10.00 pm on all days, the base level is 40 dBA.

At night, between 10.00 pm and 7.00 am Mondays to Saturday, and before 9.00 am on Sundays and Public Holidays the permitted level drops to 35 dBA.

The 10% and 1% "time above" allowances apply at night and on Sundays and Public Holidays as well.

There are penalties for tonality of 5 dB, modulation 5 dB and 10 dB for impulsiveness, that are added to the permitted levels. That is, if the noise is tonal or modulated the permitted levels drop by 5 dB. Impulsiveness is not likely to be relevant for the quarry under normal circumstances.

The Noise Regulations provide for Construction Noise exemptions to enable construction of the site such as the building of the screening bund and opening the pits.

Influencing factors that raise the allowable noise levels are activities such as external industrial noise, some nearby land uses and busy roads. These are not relevant to this site.

Under Schedule 1 of the Noise Regulations the premises on which the extraction of basic raw materials are extracted, is classified as Industrial Land for the purposes of calculating influencing factors. This was defined as the whole cadastral boundaries in State Administrative Tribunal decision {2013} WASAT 139, Bushbeach v City of Mandurah. In this case the premises is quite small and approximates the area of disturbance and will have little impact on the influencing factors.

At a distance greater than 15 metres from the sensitive premises (eg dwelling), and commercial premises, a base level of 60 dBA applies at all times, with the 10% time permitted to be up to 75 dBA and the 1% permitted to be up to 80 dBA. For industrial premises the base level is 65 dBA at all times with the 10% time permitted to be up to 80 dBA and the 1% permitted to be up to 90 dBA.

### 7.3 Environmental Noise Management

The types of equipment proposed to be used are listed below. Not all plant will be on site at any one time and that provides for contingencies to reduce the operational noise on site if necessary at certain times.

Based on the experience of Landform Research and the operation of many other sand quarries the proposed sand excavation will easily be able to comply with the Noise Regulations at the closest dwellings.

#### Anticipated equipment required for the production of the various resources are.

Equipment	Sand Extraction
Rubber tyred loader (Komatsu WA 430 or similar)	Loading sand from the face
Semi trailer or other road trucks	Transporting product
Excavator	Operating at the face in the of the pit
Mobile screen	Small screen may be used to operate occasionally in the centre of the pit for screening sand for specialty uses
Bulldozer	May be required, occasionally to push down the top sand resource or lower the faces.

Table 6 Noise Management

OPERATIONAL PROCEDURES	COMMITMENTS	MANAGED RISK
<ul> <li>Comply with the Environmental Protection (Noise) Regulations 1997.</li> </ul>	Margaret River Natural Resources is committed to continued compliance with the Regulations.     The proposed operations are designed to comply with the EPA generic buffer distances	Noted
<ul> <li>Maintain adequate buffers to sensitive premises.</li> </ul>	It is noted that the average number of laden trucks per day will be 6 with 6 unladen truck movements in.	Low
<ul> <li>Locate exposed features behind natural barriers and landform.</li> </ul>	It is noted that the average number of laden trucks per day will be 6 with 6 unladen truck movements in.	Low
<ul> <li>Maintain all plant in good condition with efficient mufflers and noise shielding.</li> </ul>	This is used and is committed to. All plant is to be maintained in sound condition.	Low
<ul> <li>Maintain haul road and hardstand surfaces in good condition (free of potholes, rills and product spillages) and with suitable grades.</li> </ul>	No changes to the access roads are proposed.     See dust management	Low
<ul> <li>Implement a site code outlining requirements for operators and drivers for noise management.</li> </ul>	A site code is to be implemented and Margaret River Natural Resources is committed to site induction and training for all personnel for all parts of the operations.	Low
Shut down equipment when not in use.	Shutdown is used to save fuel and maintenance costs in addition to noise minimisation.	Low
<ul> <li>Fit warning lights, rather than audible sirens or beepers, on mobile equipment</li> </ul>	Lights or low frequency frog beepers are to be used rather	Low

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wherever possible.	than high pitched beepers to restrict noise intrusion.	
Provide a complaints recording, investigation, action and reporting procedure.	A complaints recording and investigation procedure is proposed and will be implemented and maintained.	Low
Provide all workers with efficient noise protection equipment.	<ul> <li>All personal noise protection equipment will be provided to staff as required.</li> </ul>	Low
Minimise and conduct at the least disruptive times.	Quarrying is to be conducted during the approved working hours	Low

#### 7.4 Occupational Noise

Occupational noise associated with the quarrying processes falls under the Mines Safety and Inspection Act 1994 and Regulations 1995.

The management of occupational noise is normally handled by providing all necessary hearing protection, as well as conducting worker inductions and educational programs for all staff. Regular site audits of quarry and mining operations are normally conducted by the Department of Mines Industry Regulation and Safety.

As part of its commitments, Margaret River Natural Resources are pro-active with its worker safety awareness;

- > by providing all necessary safety equipment such as ear protection,
- > identifying sections of the plant where hearing protection is required, as well as,
- conducting induction and educational programs for its staff.

Warning signs are used to identify areas of potential noise associated with mobile plant.

The DMIRS will conduct inspections of all quarries.

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#### 11.0 CLOSURE

#### 11.1 Background

The excavated area was cleared prior to excavation and will be returned to pasture with some clumps of Peppermint trees between the creekline and the remnant Jarrah – Marri Forest

Experience by Landform Research in rehabilitation of sand quarries has shown that when completed well there is no need for irrigation of the rehabilitation and in the local areas.

It should be noted that Margaret River Natural Resources is part of the group that owns Lot 101. It is therefore in their interests to efficiently and correctly rehabilitate the excavated area.

#### Closure Objectives

The closure and rehabilitation is developed from a set of closure objectives that are designed to provide a parkland pasture end land use.

The closure objectives are shown Table 9 below.

In Table 9 the methods to be used to achieve the closure and rehabilitation objectives are shown, referenced to each of the closure objectives.

In order to provide monitoring and auditing of the closure and rehabilitation objectives a set of Completion Criteria are developed in Table 10 where the monitoring and restoration procedures are listed. The Completion Criteria are provided with a number, which is listed in each table as relevant.

Occasionally with sand excavations an operation is placed under care and maintenance or has a temporary closure. In such a situation some actions have to be taken to ensure the site is safe and does not have the potential to provide additional environmental impact. The provisions for temporary closure are shown in Table 4.

As part of the development of the closure and rehabilitation an inventory of the materials on site is provided in Table 8.

The materials inventory is a checklist of the materials that might occur when extracting materials from the ground and does not necessarily indicate that such materials are present on site.

#### Closure Summary

The extraction of sand is an interim use prior to reconstruction to a restoration of pasture.

Dieback and Weed Management in addition to monitoring and replanting failed areas is proposed.

Appropriate topsoil management is an important element in achieving successful rehabilitation and pasture re-establishment on the restored surface.

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Rehabilitation will progressively follow mining, with completed areas of the excavation being revegetated as soon as practicable.

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The final land surface will be smoothed and sloped to be compatible with the existing natural landform of the area, averaging 1.5 metres below the current land surface.

Appropriate contour banks will be used to control and harvest surface water from the post mined landform.

A definitive time for seeding and the planting is not prescribed, but rather a commitment to establish the vegetation within the first autumn/winter following placement of the overburden/topsoil.

#### **Proposed Final Contours**

Final contours are discussed in Section 5.3 Pit Design and Staging.

In summary the end land surface will be in accordance with the safety considerations of the Mines Safety and Inspection Act 1995 and the requirements and guidelines of the DMIRS; for example Guidelines on Safety Bund Walls Around Abandoned Open Pits 1991.

The depth of the pit will continue to be reformed to an undulating floor generally 2 metres above the water table but reducing to >0.5 metre separation in the south near the wetter pasture with perimeter faces battered down to 1:4 vertical to horizontal. The depth will be determined by the base floor having a separation to the highest water table of 0.5 to 1.0 metres as outlined in the attached Updated Water Management Plan that has been approved by DWER...

#### Materials Inventory

The materials remaining at closure from sand mining are natural soil materials that do not produce any remaining or lingering environmental risk.

An audit of the potential materials that may be present from mining at closure is presented below.

Table 7 Materials Inventory

Туре	Comment	Treatment	Reference
Soil	Topsoil is natural and	None required.	
	contains no detrimental materials.	To be used in rehabilitation.	
Subsoils -	Subsoil sand is natural	Non required.	
Overburden	and contains no detrimental materials.	Generally taken as resource.	
Waste rock and non surface material and tailings	Not present. The pit bottoms in earthy yellow sand which is a natural material normally occurring on the surface.	None required.	
Saline surface water	The water quality is fresh.	No treatment necessary	
Saline ground water	The water quality is fresh.	No treatment necessary	
Acidic materials and drainage	Not present. The sand does not contain sulfides and there is no risk of acidic materials developing. The sand does not carry acidic materials or any at risk materials. Concurs with Nattaporn-Prakongkep, R J Gilkes, B Singh and S Wong, 2011, Mineralogy and chemistry of sandy soils in the Perth metropolitan area of the Swan Coastal Plain, Department of Environment and Conservation.	No treatment necessary.	Field geological examination by Landform Research and the soil test holes excavated in a grid across the resource area.
Sodic or dispersive materials  Asbestos –	The water quality is fresh.  None present.		Field geological examination by Landform Research Field geological
asbestiform minerals	rione present.		examination
Radioactive materials	Not present	The sand does not contain radioactive minerals. The activity level is much lower radioactivity than other locations such as coastal locations where heavy minerals are more prevalent.	Published WA Geological Survey radiometric mapping
Metallic or chemical materials	Not present	No metallic or sulfidic materials or minerals are present in these sands.	Field geological examination and experience and published information.
Tailings storage	Not required		
Ablutions waste		Serviced portable toilet system is provided.	Water Management Plan
Dangerous Goods and Hazardous Materials	None will remain on closure.	There are normally no hazardous materials used for sand mining apart from fuel, and servicing. The only other materials are for tasks such as weed management and	

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	FUEL The various plant will be refueled from mobile tanker.  None will remain on closure.	are dealt with under those sections.  Any soil or other materials with drips and spills will be removed offsite to an approved waste site or location.	Water Management Plan
	SERVICE MATERIALS Only minor lubrication will be conducted on site All major servicing will be conducted offsite.  None will remain on closure	Any wastes will be collected and removed from site promptly to an approved recycling or waste disposal area.  Only minor servicing will be conducted on site. All major servicing will be conducted offsite.	Water Management Plan
General waste		Regularly removed from site to an approved disposal area	Water Management Plan

#### 11.2 Closure Implementation

The closure planning will be updated from time to time as the excavation progresses forwards. This will include both anticipated costs and procedures.

The following procedures will be used for final closure and rehabilitation of any stage of excavation and on completion of the sand pit.

- The closure of completed areas of the operations will be progressive with closure of all remaining ground at the end of operations.
- Maintenance and monitoring will be conducted until completion criteria is met. A three year cut off is provided for rehabilitated soils.
- c) Unexpected or early closure will be completed in the same way as permanent closure below but the full rehabilitation will be completed as one operation.

Table 8 Closure and Rehabilitation Techniques

CLOSURE OBJECTIVE	Completion Criteria	Actions for Permanent Closure of any stage or the operations.
1.0 COMPLIANCE		
1.1 All legally binding conditions and commitments relevant to mine closure and rehabilitation will be met.	1.1a 1.1b	Rehabilitate any areas that are no longer required to local pasture with clumps of native vegetation. Review the latest documentation. Comply with legal requirements and commitments and conditions of approval.  Assess compliance with the conditions and commitments and end use. Reform the land surface to have a landform similar to the natural form but at a lower elevation.  Design the rehabilitation to comply with, and be able to achieve the completion criteria and commitments.  Compile an audit table of all conditions and commitments that relate to closure and conduct an audit of those items upon the completion of each stage of rehabilitation and annually until sign off.

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## Attachment F

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			Visually audit against all conditions.			
2.0 L	2.0 LANDFORM AND SOILS					
2.1	All non natural structures, with mining will be removed.	2.1 2.2a	<ul> <li>All non natural inert materials associated with quarrying will be collected and removed from site unless required for internal roads.</li> <li>All ground once occupied such as hardstand is to be deep ripped and soils reconstructed as required.</li> <li>If not required, roadbase, hardstand and any other inert materials left over from the site operations will be scraped and picked up and will be used to backfill the pit faces or reused.</li> <li>Visual audit of completed ground, to verify compliance.</li> <li>Visual audit of completed ground, to verify compliance with "no</li> </ul>			
	removed from site.	2.2b	contamination to be left".  Soil testing will be undertaken if there is evidence of adverse materials remaining such as fuel spills.  As a result of any testing remediation will be undertaken to ensure that the site is not contaminated.  Check samples will be collected to verify a lack of contamination.			
2.3	The land surface will be visually similar to the surrounding landform.	2.3	<ul> <li>Complete the activities to make the site safe.</li> <li>Faces and the landform are to comply with DMIRS Guidelines and be stable for the long term.</li> <li>Ensure that the batters are formed to comply with DMIRS and geotechnical requirements.</li> <li>Where possible match the landform to the adjoining excavated and non excavated surfaces.</li> <li>Push down or backfill faces and slopes.</li> <li>The surface will be undulating with similar slopes to the pre − mined condition.</li> <li>The excavated floor is to be undulating at between 0.5 m - &gt; 2.0 metres separation to the locally perched seasonal water table with batter slopes less than 1 : 4 vertical to horizontal.</li> <li>The excavated surface is to be resistant to wind and water erosion.</li> <li>Visual observations and survey of the landforms to confirm compliance.</li> </ul>			
2.4	The land surface and soils are to be capable of supporting pasture with clumps of native vegetation – trees.	2.4	<ul> <li>The soils are to be constructed from overburden overlain by topsoil, leaf litter, vegetation fragments as available in areas of native vegetation.</li> <li>Deep rip the floors and batter slopes along contour. Deep rip any compacted hardstand or internal roads.</li> <li>At the end of the current excavation the overburden topsoil followed by the vegetation will be spread across the excavated area as the key part of the final rehabilitation.</li> <li>The topsoil cover of 50 – 100 mm will be pushed to the edge of the current excavation in separate windrows where available. This is usually the top 50 mm to 100 mm. Topsoil will be respreads as the final surface covering.</li> <li>Visual observations and discussions with operators.</li> </ul>			
3.0 HYDROGEOLOGY						
3.1	The reformed surface be >2 metres above the highest groundwater table.	3.1	<ul> <li>Push down or backfill faces and slopes.</li> <li>The excavated floor is to be undulating at between 0.5 m - &gt; 2.0 metres separation to the locally perched seasonal water table with batter slopes less than 1: 4 vertical to horizontal.</li> <li>Surface water drainage will be similar to the current drainage in quantity and direction of flows.</li> <li>Visual observations and survey of the landforms to confirm compliance.</li> </ul>			

#### 4.0 BIODIVERSITY The rehabilitated **Biological Hygiene** areas will, in time, form sustainable Implement the Dieback Management Plan. Implement the Weed Management Plan. pasture with clumps of trees and local native **Topsoil Recovery** vegetation. Overburden will be removed by pushing to the perimeter of the proposed pit to form perimeter bunding to the pit. This material will be used for later rehabilitation. When stored topsoil is used it may be diluted and mixed with fresh topsoil. Revegetation > Where possible any disturbed areas that are no longer required will be rehabilitated using the methods described above within 12 months of becoming available. Topsoil and vegetation fragments will be transferred directly from an area being cleared and spread across the surface to provide seed sources and habitats wherever possible. If direct transfer is not possible, any material stored in dumps will be respread Larger vegetation will be formed into occasional piles for habitat creation on the lower elevations. Pre-seeding weed control is only likely to be required where topsoils are used that contain weed species. This is unlikely to be the case on this site where the existing vegetation is in excellent condition even though some exotic species are currently present within the "natural" vegetation. Any weeds likely to significantly impact on the rehabilitation will be sprayed with Roundup or other herbicide or grubbed out, depending on the species involved. Fusilade will be used where grasses present an impediment to rehabilitation. Weed affected topsoil and overburden will be buried. Native vegetation in the clumps connecting the remnant forest to the creekline. Rehabilitation will take place during the first winter months following the clearing of the existing Peppermint Trees if they are cleared as a result of the grant of a Clearing Permit Local species (Agonis flexuosa) are to be used in revegetation (100 plants) sourced as tube plants and used because they are the favoured habitat of the Western Ringtail Possum. Any materials brought to the site will be dieback and weed free Trees/shrubs will be installed as tube plants during June - July in clumps on the rehabilitated land surface and will be provided with a 10 g tree fertiliser tablet placed beside the plant. The planting density will be 50 tube plants per hectare, planted in clumps. The clumps of trees will be fenced to exclude stock, and rabbit guards installed if deemed necessary at the time of planting. If no stock are retained on site, fencing will not be necessary. Tube plants are to be established in low undulations and not on the high points of furrowed soil. The planting rate is to achieve the completion criteria allowing for deaths. Pasture The preferred method of revegetation is to use the pasture seed from existing topsoil on pasture areas. However this may be deficient and additional seed is likely to be required. The sowing of pasture and crop will be integrated into the normal farming systems. Seeds of pasture species will be spread by normal farm practice at rates and species determined by the land holders/farm manager with advice from either a consultant or the Department of Primary Industries and Regional Development. The pasture species will be matched to the soil types and rainfall. The location falls into the "High Rainfall Coastal" planting regime with sandy Suitable perennial legumes include Birdsfoot trefoil, Lucerne

Strawberry Clover, and Sulla.

Perennial pasture includes Perennial

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4.2	The re-established surface will be free from Declared or Significant Environmental	4.2	Ryegrass, Phalaris, Cocksfoot, and Summer Active Tall Fescue, Kikuyu and Rhodes Grass. Annual pasture species include Italian Ryegrass, Serradella, subterranean clover.  The actual species used will be determined by the individual season, nature of the rainfall in the preceding months and stocking/hay production proposed by the landholder which may change from time to time.  Seeding rates are 2 – 5 kg/ha depending on the species used; for example Ryegrass is seeded at 3 kg/ha whereas Rhodes Grass is seeded at 4 kg/ha.  If sufficient vegetation does not germinate the area will be over-seeded in early Autumn with a mixture of pasture species.  Completion Criteria  Pasture with clumps and linkages of 100 local native Peppermint between the forest remnant and the creekline vegetation if the existing Peppermint on site are to be cleared under a Clearing Permit.  Inspect the site for Significant Environmental and Declared Weeds.  If found, inspect adjoining native vegetation for edge effects.  Inspect rehabilitation and the edges of access roads.  Provide weed control using the methods outlined in the Weed Management.  Implement Dieback protection measures outlined in the Dieback
	weeds that could compromise the		Management Plan.  Dispersations, discussions with operators and vegetation assessment.
	success of the		Observations, discussions with operators and vegetation assessment.
	rehabilitation or impact on		
	adjoining		
5.0 S	vegetation. TAKEHOLDERS		
5.1	The interests of all	5.1	➤ Prior to closure, consult the stakeholders to check whether the closure
	relevant		planning, where possible, considers their interests and carry them out as
	stakeholders will be considered		necessary.  Consult with City of Busselton, in relation to their requirements for closure.
	during operations,		Review the latest documentation.
	closure planning		Comply with legal requirements and commitments.
600	and closure. AFETY		➤ Closure audit.
6.0 S	The site will be left	6.1	➤ Provide warning signs as required.
0.1	safe for parkland	0.1	Provide warning signs as required.     Provide fences, bunding and warning signs above faces as required.
	pasture end use.		Provide locked gates or access restraints as required.
			Inspect all areas and ensure the land surfaces and access points, are stable
			to erosion from wind and water.  The disturbed land will be made safe and in compliance with the Mines
			Safety and Inspection Act 1994 and DMIRS Mine Closure Guidelines.
			Surfaces will be formed to DMIRS Guidelines and match natural ground.
			<ul> <li>Holes, sumps drains, ditches and the like will be filled and removed.</li> <li>The land surface is to have a landform similar to the natural form.</li> </ul>
			Audit of completed ground, to verify compliance.
			Visual observations of the landforms.

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### 11.3 Monitoring

Table 9 Monitoring and Remediation

	CLOSURE		Completion	Measurement Tools	Performance	Remediation		
4.0.	OBJECTIVE		Criteria		Indicators			
	1.0 COMPLIANCE							
1.1	All legally binding conditions and commitments relevant to mine closure and rehabilitation will be met.	1.1a	The disturbed land will be made safe and in compliance with the Mines Safety and Inspection Act.	Conduct an audit of all legally binding conditions.	<ul> <li>All legally binding conditions have been complied with.</li> <li>Audit at least annually.</li> <li>Monitor for 3 years.</li> </ul>	Reform the land surface and bring the operation into line with the conditions and legal requirements.		
		1.1b	Comply with the requirements of the Planning Consent and Extractive Industries Licence.	Conduct an audit of the environmental conditions.     This includes Clearing Permits, DWER Licences and other conditions.	<ul> <li>All conditions have been complied with.</li> <li>Audit at least annually.</li> <li>Monitor for 3 years.</li> </ul>	<ul> <li>Undertake any action that is necessary to bring the site into compliance.</li> </ul>		
	ANDFORM AND SO							
2.1	All non natural structures, with mining will be removed.	2.1	The site will be cleaned, and non natural materials associated with mining will be removed.	Visual audit of completed ground, to verify compliance.	No non natural structures will be retained on site. Conduct at closure.	Remove any foreign materials.		
2.2	All wastes will be removed from site.	2.2a	All non local hardstand and roads will be collected and removed or buried in a safe location.	<ul> <li>Visual audit of completed ground, to verify compliance.</li> <li>Discussion with staff and operators.</li> </ul>	<ul> <li>Non local materials associated with excavation</li> <li>Conduct at closure.</li> </ul>	Remove or bury non natural materials.		
		2.2b	Any contaminated soil or materials will be removed to an approved waste disposal site.	Visual audit of completed ground, to verify compliance. Discussion with staff. Soil testing if there is evidence of material remaining.	No visual evidence or sample data (if conducted) of contaminated or waste materials. Conduct at closure.	Remove any remaining facilities and remediate or remove any contaminated soil. Retest and remediate as necessary.		
2.3	The land surface will be visually similar to the surrounding landform.	2.3	The land surface will be visually similar to the surrounding landform.	Visual observations from the key viewscapes.	➤ The land surface will be visually similar to the surrounding landform. ➤ At closure and for 3 years.	Repeat the relevant site closure procedures.		
2.4	The land surface and soils are to be capable of supporting pasture with clumps of native	2.4	Reconstructed soil properties will be appropriate to pasture.	Visually observe the land surface.	At closure and for 3 years or sign off.	Repeat the relevant site closure procedures with respect to soil preparation.		

Excavation – Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

	vegetation -							
0.011	trees.							
3.1	YDROGEOLOGY The reformed surface be 0.5m to >2.0 metres above the highest groundwater table.	3.1	The rehabilitated surface will have a separation of be 0.5m to >2.0 metres above the highest groundwater table.	> >	Implement site survey. Use piezometers or test pits as necessary to confirm compliance. Visual observations and site survey.	>	Floor to be undulating some 1.5 metres on average below the natural surface.	Reform the land surface with backfill or other measures to bring the surface into compliance.
4.0 B	IODIVERSITY The rehabilitated	4.1	> The	>	Conduct visual	<u> </u>	The rehabilitated	> Where deficient,
	areas will, in time, form sustainable pasture with clumps of Peppermint trees connecting the remnant forest and the creekline vegetation.		rehabilitated areas will be pasture with clumps of trees and local native vegetation.		audits and as necessary plant counts.		areas will be pasture with clumps of trees and local native vegetation. At closure and for 3 years or sign off.	provide additional tube planting or seeding.
4.2	The re- established surface will be free from Declared or Significant Environmental weeds that could compromise the success of the rehabilitation or impact on adjoining vegetation.	4.2	No significant infestations of environmental or declared weeds.	A A	Visual audits. Maintain ongoing records.	<i>&gt;</i>	Exotic and weed species will not compromise rehabilitated areas. At closure and for 3 years or sign off.	Undertake additional weed management such as spraying or mechanical removal.      Continue monitoring and management to check compliance.      Repeat as necessary for 3 years or until sign off.
	TAKEHOLDERS	F 4	D. Delente		Marife H.	_	Obeleskelder	4 Underfolger
5.1	Ensure stakeholder issues are considered.	5.1	Prior to closure, consult any relevant stakeholders to check whether the closure planning considers their interests.	A	Verify the closure plan against the Stakeholder interests. Site audit and discussions with operators.	A	Stakeholder interests are incorporated into the closure planning where possible. At closure and for 3 years or sign off.	Undertake any action that is required to meet the requirements of the stakeholders.     Repeat as necessary the various steps in the closure planning and revegetation.
	AFETY	0.6	to the second of the second	١.	Manual at the s	-	E	N 11-1-1-1
6.1	The site will be left safe for parkland pasture end use.	6.1	The disturbed land will be made safe and in compliance with the Mines Safety and Inspection Act 1994 and DMIRS Mine Closure Guidelines.	A	Visual audit of completed ground, to verify compliance. Discussion with staff.		Faces and the landform are to comply with DMIRS Guidelines and be stable for the long term. At closure and for 3 years or sign off.	Undertake any action that is necessary to make the site safe.

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

#### 11.4 Weed Management Plan

Weed management is to be used to minimise impact on adjoining remnant vegetation and on adjoining properties as well as maintaining the agricultural capability of the rural lot.

Margaret River Natural Resources is part of the group that owns Lot 101. It is therefore in their interests to efficiently and correctly rehabilitate the excavated area.

The management of weeds is essentially similar to that for plant diseases. The impact of weeds is really the impact within the local area and the more they are controlled the better. It is desirable that the site does not become a haven for environmental weeds and therefore a management and control program is warranted at all sites.

Weeds can be declared under the *Agriculture and Related Resources Protection Act* 1976 which requires that Declared Weeds are eradicated. Other weeds are not Declared but may be classified as Environmental Weeds because they are well known for impacting on vegetation.

#### Weeds are most likely to impact on;

- > Disturbed areas such as overburden dumps, topsoil stockpiles.
- Edges of access roads.
- Edges of firebreaks adjacent to surrounding vegetation.
- > Locations accessible to the public on which rubbish is dumped.

#### The main sources of weeds are;

- · Weeds from edge effects from access and local roads.
- · Gradual creep of weeds along access roads.
- Rubbish dumped by the public. This is not likely as the resource is set well back from Gibb Road
- Materials or waste brought to site by employees.
- Soil and seeds from vehicles arriving at site. This often applies to trucks that have carried something else such as grain, or vehicles to be used in earthworks.
- · Wind blown seed from surrounding land.
- Birds and other vectors. This is more common than is often given credit for. eg Solanum species.
- The Dieback Management Actions will be used to assist weed management.

#### Weed Management

- Weed Management will integrate with normal farm weed management.
- Inspections are to be conducted to monitor the presence and introduction of Environmental and Declared Weeds on an annual or more frequent basis. On identification, Declared and significant environmental weeds will either be removed, buried, or sprayed with a herbicide.

Attachment F

Excavation - Rehabilitation Management Plan, Sand Excavation, Lot 101, Gibb Road, Kaloorup

All vehicles and equipment to be used during land clearing or land reinstatement, are to be clean and free from soil or plant material when arriving at site.

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- No soil and vegetation will be brought to the site apart from that to be used in rehabilitation.
- Plants to be used in rehabilitation are to be free from weeds.
- Weed affected top soils may need to be taken offsite, used in weed affected areas, buried by 500 mm soil/overburden or taken offsite.
- Illegally dumped rubbish is the major source of weeds and will be removed promptly.
- No weed contaminated or suspect soil or plant material is to be brought onto the site.
- When clearing land or firebreaks vehicles will work in conjunction with dieback principles and push from areas of better vegetation towards areas of lower quality vegetation.
- Weeds are to be sprayed with broad spectrum spray prior to planting or seeding in weed affected soils as required.

#### 11.5 Dieback Management

Dieback of vegetation is often attributed to Phytophthora cinamomi even though there are other Phytophthora species and other diseases such as Armillaria that can cause dieback like symptoms. Microscopic soil-borne fungi of the genus Phytophthora kill a wide range of native plants and can cause severe damage to many vegetation types, particularly those from the families Proteaceae, Epacridaceae, Xanthorrhoeaceae and Myrtaceae.

In most cases dieback is caused by a pathogen which infests the plant and causes it to lose vigour, with leaves dying, and overtime may kill the plant. As such the management of Dieback is essentially related to plant hygiene when coming onto a site and within a site.

There are several guides to the management of Dieback.

- Department of Parks and Wildlife (DBCA) Dieback Hygiene Manual 1992 is a practical guide to Dieback management.
- Department of Parks and Wildlife (DBCA) Best Practice Guidelines for the Management of Phytophthora cinamomi, draft 2004.
- Dieback Working Group 2005, Management of Phytophthora Dieback in Extractive Industries.
- Dieback Working Group, 2000, Managing Phytophthora Dieback, Guidelines for Local Government.

Jarrah Dieback (Phytophthora cinnamomi) is scattered across this part of the State, but in many cases such as this site the vegetation is not interpretable because of the levels of disturbance.

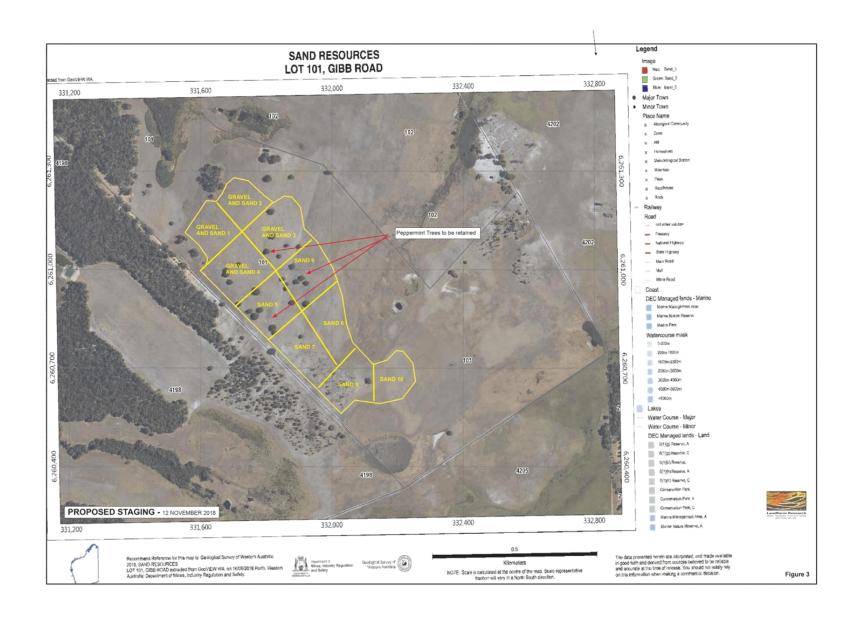
On this site, even though there is no current evidence of dieback or other species normal best practice, plant disease management actions will be used,

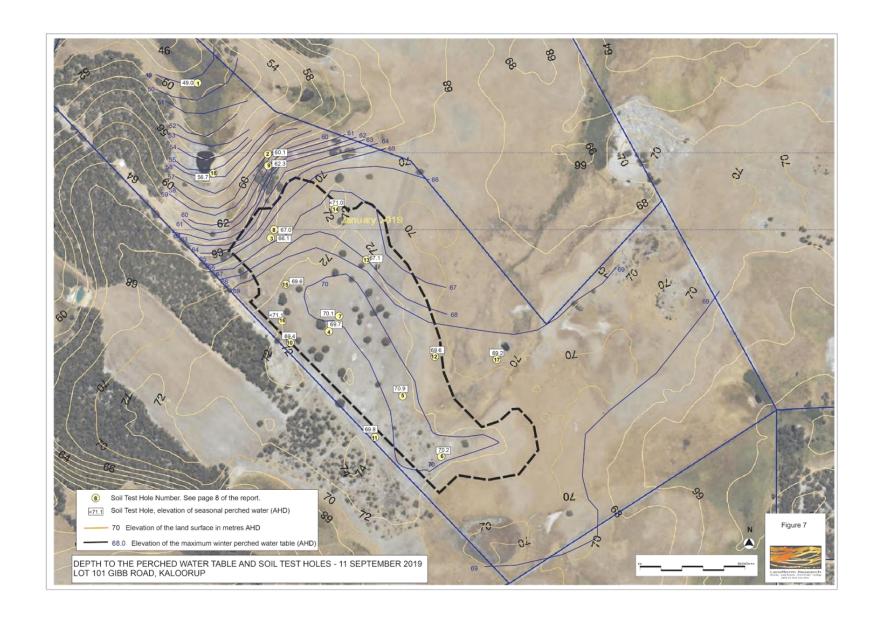
The aim of dieback management during excavation is to minimise the risk of entry of any additional plant pathogens to the site.

- There is very little risk of the operations spreading dieback onto vegetation on adjoining properties as there is no access to those properties and they are cleared.
- All vehicles and equipment used during land clearing or land reinstatement, will be clean and free from soil or plant material when arriving at site.
- When removing topsoil and clearing, vehicles will run around the perimeter and then push inwards where possible.
- No soil and vegetation will be brought to the site apart from that to be used in rehabilitation and that which is dieback free.
- Plants to be used in rehabilitation are to be certified as from dieback free sources.
- Excavation vehicles will be restricted to the excavation area apart from clearing land.
- Rehabilitated surfaces will be free draining and not contain wet or waterlogged conditions.
- · Illegally dumped rubbish is to be removed promptly.
- When clearing land or firebreaks vehicles are to work from disturbed areas towards
  the pit; or, in situations where dieback interpretation is not possible, from areas of
  higher quality vegetation to areas of lower quality vegetation.

DBCA has determined that material such as sand, taken from deeper in the regolith profile where there is no organic and other plant matter, carries low risk of spreading dieback. (DEC 2004).

The Weed Management Policy will be complied with.





#### Attachment F

### Proposed Plans/Documents To Be Approved

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Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

### AMENDED TRAFFIC ROUTE AND MANAGEMENT

GIBB - NORTH JINDONG AND ROY ROADS

PROPOSED SAND PIT, LOT 101, GIBB ROAD KALOORUP

13 September 2019

#### Summary

The proposed amended transport route for pit traffic along the northern section of Gibb Road to North Jindong Road and Roy Road to Bussell Highway, provides an ability to quickly reach a much safer section of road than was previously proposed along Gale Road.

There is 1.5 km of gravel road along which the trucks will travel and that becomes a traffic management issue for which Margaret River Natural Resources has proposed a Transport Management Plan (attached).

The proposed truck traffic complies with the City of Busselton for the width, construction and current traffic movements along Gibb Road.

Prepared by



#### Proposed Plans/Documents To Be Approved

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

#### Amended Transport Route

The original transport route was proposed to cart the sand through Lots 4205 and Lot 1 Gale Road and then along Gale Road.

On review of the transport options the transport of sand through Lots 4205 and Lot 1 Gale Road and along Gale Road is not now considered the best option.

There is a better and safer option by using North Jindong Road and Roy Roads, which are bitumen roads with two lanes marked by lime marking. Also the City of Busselton have advised that Payne Road is a RAV Network 3 with Conditions, indicating its safer formation.

On the other hand Gale Road, whilst sealed, has several sharp corners where the truck traffic has to slow down. The seal coat is only single lane, meaning that trucks and other vehicles will have to slow and leave the bitumen. See the attached Figures. Figure 1 for location and 7, 8 and 9 for photographs.

Gale Road has been used for the transport of sand and gravel for many years by local operators but is considered less safe than using the amended transport route.

On the other hand Gibb Road has a seal coat for the northern section with the remainder being gravel road in good condition with a width of 7 metres and a transport length of gravel of 1.5 kilometres.

This gravel portion of Gibb Road has very low traffic counts and appears to be used solely to access several dwellings on the section of road.

The sealed section of Gibb Road was constructed to enable the transport of gravel from the City of Busselton Pit with that pit at the northern end of Gibb Road appearing now to only have minor use and use by off road trail bike riding.

The revised transport route is;

- Lot 101 Gibb Road
- Gibb Road north
- Payne Road North Jindong Road
- Roy Road
- Bussell Highway

#### Scale and Intensity of the transport

The proposed scale and intensity of the transport is not proposed to change.

The number of truck movements will vary throughout the year depending on the size of contracts. To transport the required amount of sand a certain number of trucks must be used.

Road transport will use a variety of road approved vehicles such as rigid trucks, semi-tippers (16 to 26 tonnes) or rigid (8) wheeler tippers (3-15 tonnes) and potentially with a 5 axle dog trailer.

With a calculated volume of sand of 200 000 tonnes, and a ten year life of the operations, that equates to around 20 000 tonnes of sand extracted every year. However due to the variable nature of contracts, up to 30 000 tonnes of sand is anticipated to be transported in any one year.

With an average truck size of say 25 tonnes that equates to up to 1 200 laden truck movements in any one year for 30 000 tonnes extracted. If sand was transported on 200 days of the year that equates to an average of 6 laden truck movements per day.

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

There could be a slightly higher daily average number of truck movements if more smaller trucks access the site. For example if the average load is 20 tonnes then the average number of truck movements to cart 30 000 tonnes of material annually will be 7.5 trucks per day. In any case the average will be less than one per hour.

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To be conservative an average of 10 vehicles are suggested per day on 200 days per year allowing for staff and service vehicles.

However with the nature of sand sales, there will be times when more trucks arrive on a particular day and times when there will be less.

A condition of a maximum of 30 trucks on any one day is acceptable to Margaret River Natural Resources.

In addition it is suggested that for a large contract the Shire of Busselton be notified at least 1 week prior to the commencement of a large contract and informed of the tonnages, likely truck movements and anticipated volumes to be transported during that contract. This process is used at other sand pits and provides the City with an opportunity to discuss any specific issues with the operator.

A road maintenance agreement will be determined with the City of Busselton based on the City of Busselton Planning Policy 5, Rural Land Use and Development Policy 2010.

#### Existing road

City of Busselton Engineers completed traffic counts along Gibbs Road in May-June of this year. (source City of Busselton)

These traffic counts indicate approximately "30 vehicle per day annual average day traffic" on Gibb Road.

The count was taken 2.6km north of the intersection with Gale Road which is around the location of the entrance to Lot 101.

In addition the City advises that the traffic count was an annual average of 30 vehicles per day. They also advised that there is currently an application for the harvesting of a BlueGum Plantation which will add to the truck movements along Gibb Road. It is estimated that 8 truck movements will be added as a result of the tree harvesting. That will take the average daily traffic to 38 movements per day.

No speed data was available.

If a conservative additional traffic of 10 vehicles per day are added then the current daily traffic loading, on an annual basis, increases to around 48 vehicles average maximum per day.

City of Busselton advised that their last Engineer's inspection of Gibbs Road it was an unsealed road with a 7m wide formation, which is similar to the measurements made by Margaret River Natural Resources on 11 September 2019.

The City of Busselton advised that their engineering section do not have issues with transport vehicles turning right on to Gibbs Road to Payne Road. Payne Road is a RAV Network 3 With Conditions, so this would be preferable to heading south to Gale Road, which is not on the RAV network.

Data provided by the City of Busselton is summarised in the table below. Using the City measurements of 7 metre width gravel then up 70 daily average number of vehicles is applicable as shown in the table below supplied from the City of Busselton. With the predicted average of around 48 vehicles the vehicle movements comply with the current road construction.

It is also noted that the City of Busselton graded Gibb Road on 11 September 2019.

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

Table 3 - Seal Widths and Carriageway widths for Rural Roads

Design Traffic Volumes (AADT) (veh/day) (Note 1)	Carriageway Width (seal width + trafficable shoulders) (m)	Sealed Width (m)
0-75	7	Unsealed (see note 1)
75 - 150	7.5	3.5 (note 2)
150 - 500	8.0	6.0(note 3)
Over 500	8.0 (note 4)	7.0

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Source - Based generally on "Rural Roads Guide", Table 4.1 & 4.2

The northern portion of Gibb Road has a seal coat for the northern section with the remainder being gravel road in good condition with a width of 7 metres and a transport length of gravel of 1.5 kilometres.

That means that transport along Gibb Road becomes a management issue of the predicted truck traffic.

Therefore a traffic management program is proposed for all trucks travelling along the gravel section of Gibb Road. See the attached Traffic Management Plan.

#### Site Access

Access to Lot 101 is located at the southern boundary of the lot. The gate is set back 40 metres from the property boundary of Lot 101 to enable a truck to park on Lot 101 prior to entry or exit, without parking on Gibb Road. (Figures 1, 5 and 6). See also the photograph in Figure 7.

The access road runs along the existing fire break for a distance of around 550 metres. The access is straight, with good visibility. The track has been upgraded to the point where trucks can travel safely along the road, but not to the point where the road is so good that trucks will speed. As the access road has some underlying laterite duricrust there are some natural undulations, which will act as speed humps. (Figures 1, 5 and 6). See also the photograph in Figure 7.

The internal access road will also be sheeted with gravel as necessary to provide the safe access. Gravel will be accessed from the gravel resource on the proposed extractive industry area.

For such a small sand resource it is not preferred to provide a wide road that will increase visual impact, but to provide a safe access that is more compatible with the surrounding landscape.

There is not anticipated to be a significant upgrade to the existing access road to achieve the access

The access road is not near any dwellings. The closest dwellings are to the actual entrance rather than other parts of the access road. Figures 1, 2, 3 and 4.

The distances to sensitive premises are;

- > 340 metres north across thick native forest
- > 460 metres south west
- > 525 metres north west
- > 640 metres west
- > 730 metres south west.

13.1 Attachment F

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

With respect to the existing gravel section of Gibb Road, there are thought to be 6 dwellings set back off that section of road, set back at distances of:

- 130 metres minimum of 90 metres dense forest
- > 130 metres minimum of 90 metres dense forest
- > 145 metres east of Gibb road with pasture and scattered trees between
- > 140 metres minimum of 50 metres forest
- > 145 metres minimum of 90 metres dense forest
- > 330 metres minimum of 90 metres dense forest

There is unlikely to be any significant increase from dust by the additional vehicles considering the scattered rain that falls through the year and the setbacks to the dwellings from Gibb Road.

Jones D N, L Bemede, A R F Bond, C Dexter and C L Strong, 2016, Dust as a contributor to the road effect zone: a case study from a minor forest road in Australia, Australian Journal of Environmental Management Volume 23, No 1 p 67 – 80 noted that dust deposition at a distance of 40 metres from a gravel road in forest varied from 8% to 30% of the deposition at the roadside depending on the level of vegetation cover. They also found that mammals were not significantly impacted by the dust compared to when the road was sealed.

In other studies dust particles have been found to be readily stopped by tree belts and distance, with which the site complies. Tree belts slow the wind and allow the dust to settle. See *Planning Guidelines Separating Agricultural and Residential Land Uses, Department of Natural Resources Queensland 1997 (Pages 65 – 111)* and *Department of Health WA, 2012, Guidelines for Separation of Agricultural and Residential Land Uses* which uses the same criteria (Pages 112 – 118).

The Queensland Guidelines predominantly relate to agricultural spray drift, but based on particle size also relate to dust.

The Guidelines provide for a buffer of 300 metres for open agricultural land, dropping down to 40 metres where an effective tree belt is in place. The Western Australian Department of Health also uses the same guidelines. The guidelines assess dust in the absence of dust control.

The Guidelines are based on field studies and demonstrate the effectiveness of tree belts and distance in providing screening against particulate travel on level ground.

The only dwelling which has less buffers is the dwelling east from Gibb Road, but this is set back behind a row of verge trees that even though they are not 40 meters wide, they are located at the edge of the road and are effective in reducing the wind speed and travel, allowing time for any dust to settle prior to the air travelling across the paddock.

In addition a speed limit of 40 kph will be imposed on truck traffic by Margaret River Natural Resources to minimise noise and dust generated from Gibb Road and to minimise any safety risks.

It is noted that being a public road the *Environmental Protection (Noise) Regulations 1997* do not apply. See Figures 1, 2, 3 and 4. See Figures 7, 8 and 9 for photographs of the transport route.

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13.1 Attachment F

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup Margaret River Natural Resources

#### Timing of the vehicles

Hours of operation will be 7.00 am to 5.00 pm Monday to Friday inclusive, excluding public holidays. This is similar to the operations of nearby quarries in the local area.

Lindsay Stephens Landform Research Attachment F

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup

Margaret River Natural Resources

#### ROAD TRUCK MANAGEMENT - DRIVER INSTRUCTIONS

#### Margaret River Natural Resources Pty Ltd

All truck contractors are supplied with written guidelines on the operations of the pit.

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Drivers are inducted to the site through the Safety Management Procedures for the site.

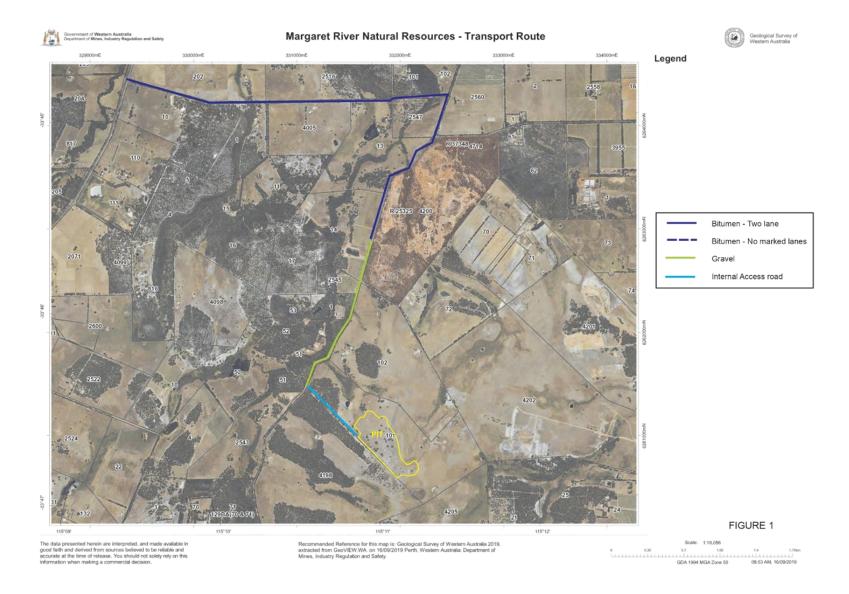
Signs are used on site to inform drivers of their responsibilities.

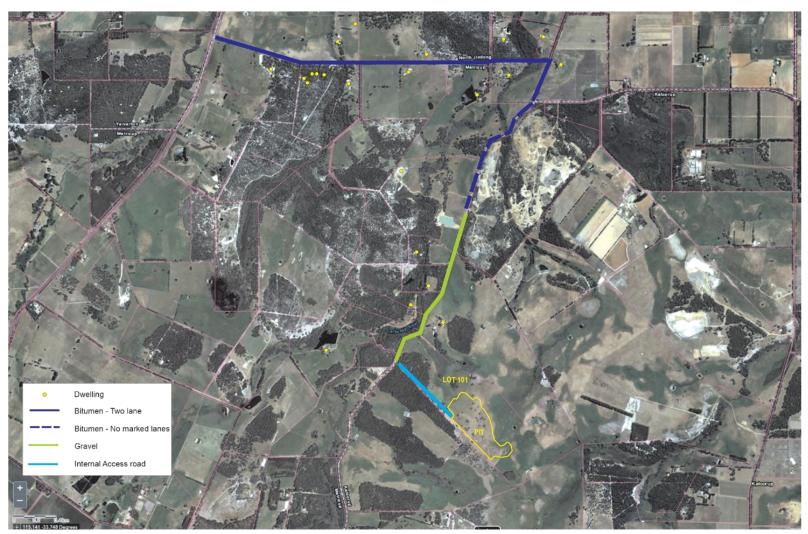
Drivers found breaching site procedures are warned and their employer notified in writing. Drivers breaching procedures on a second occasion are banned from the pit.

- All companies and contractors transporting sand or gravel will be informed of the operating hours and procedures applying to their contract.
- All trucks must arrive at the site clean and free from earth, sand, gravel, clay, vegetable matter or grain seed. Trucks not clean will not be permitted to be loaded.
- 3. There will be no cleaning or tip off at site.
- 4. All truck drivers and companies will be informed of the "normal operating hours of 7.00 am to 5.00 pm" Monday to Friday, excluding Public Holidays.
- 5. Trucks will be permitted to enter the site and be parked prior to the "start time", to remove the safety hazard of parking on Gibb Road or within the community.
- 6. Parking on Gibb Road is not permitted.
- 7. On entry, trucks will be required to park and wait to be loaded.
- 8. On entry trucks will radio forward of entry on the allocated UHF radio channel.
- Trucks are to enter the site at low power and make their way to the pit to wait for loading or instruction.
- 10. Trucks will not be loaded prior to the "start time".
- 11. Trucks are to leave the pit under low power.
- 12. The speed limit along the access road and within the pit is 25 kph.
- 13. Trucks are to swing anticlockwise into the pit to be loaded.
- 14. Trucks are not permitted to reverse except for safety or emergency.
- 15. No excessive revving of engines on roads is permitted near or within the site apart from safety considerations.
- 16. No air or exhaust brakes are to be used within the pit or on nearby roads except for emergency.
- 17. No horns are to be sounded within the pit or nearby except for emergency.

Amended Access Route – Proposed Sand Quarry Lot 101 Gibb Ro, Kaloorup Margaret River Natural Resources

- 18. Truck drivers are not permitted to leave the cab during loading unless they are located in a safe or designated place.
- 19. Communication between trucks and the loader will be via radio and eye contact.
- 20. Prior to leaving the pit all loads must be secured by tarpaulins or other suitable cover for minimising the loss of sand or gravel.
- 21. Prior to leaving site trucks are to be inspected by the drivers for sand or gravel or other materials adhering to the trucks.
- 22. Trucks are to slow to 40 kph when travelling on the gravel section of Gibb Road.
- 23. Drivers failing to adhere to the "Road Truck Management" will be banned from the pit.





LOCATION OF DWELLINGS

FIGURE 2



### 262 Proposed Plans/Documents To Be Approved



Council

13.1



Location of the access road along the existing fire break

LOCATION OF THE ACCESS ROAD

FIGURE 5

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### Attachment F Proposed Plans/Documents To Be Approved

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Access from Gibb Road. Note gate set back to allow for truck parking and passing



Gibb Road south of Gersbach Road



Gibb Road, north from the access point



Gibb Road, north of Gerbasch Road

FIGURE 7

## 266 Attachment F Proposed Plans/Documents To Be Approved







View south along North Jindong Road to intersection with Payne Road (left) and Gibb Road (right)



Bitumen northern portion of Gibb Road



Roy Road vew west from North Jindong Road

FIGURE 8







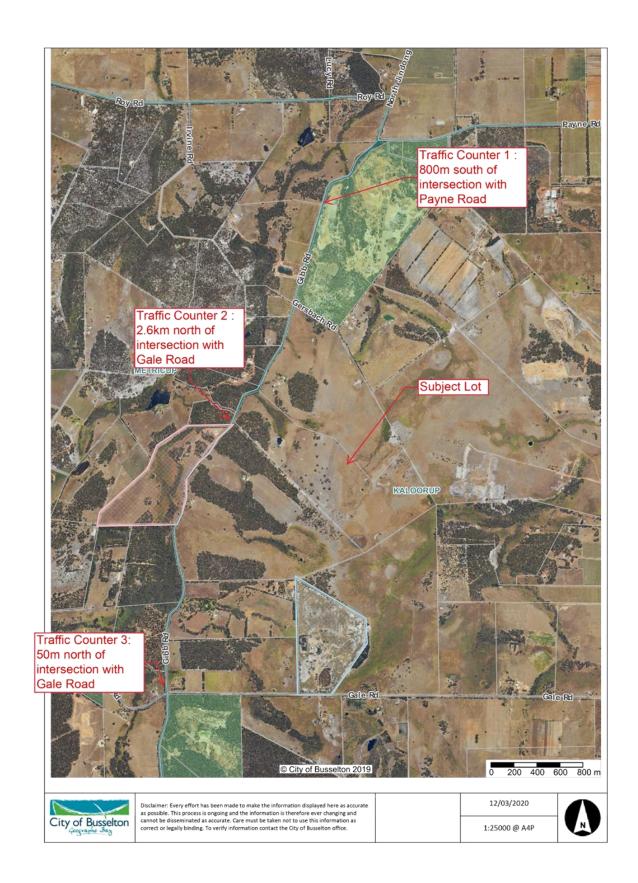






Roy Road central west

FIGURE 9



13.1 Attachment G **Traffic Count Data** 

WeeklyVehicle-185 Page 1

Counter 1

#### **MetroCount Traffic Executive Weekly Vehicle Counts**

#### WeeklyVehicle-185 -- English (ENA)

Datasets: Site: Attribute: [2020006] gibb rd (800m sth of payne rd)

carbunup

7 - North bound A>B, South bound B>A. Lane: 0 Direction:

**Survey Duration:** 11:13 Tuesday, 18 February 2020 => 13:41 Wednesday, 11 March 2020,

Zone: File: 2020006.EC0 (Plus )

Identifier: HK57E6Q6 MC56-L5 [MC55] (c)Microcom 19Oct04

Algorithm:

Factory default axle (v4.05)

Axle sensors - Paired (Class/Speed/Count) Data type:

Profile:

Filter time: 11:14 Tuesday, 18 February 2020 => 13:41 Wednesday, 11 March 2020 (22.1025)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = North Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Vehicle classification (AustRoads94) Scheme:

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 1122 / 1122 (100.00%) 25 March 2020

WeeklyVehicle-185 Page 2

#### **Weekly Vehicle Counts**

WeeklyVehicle-185

2020006.0.1NS Site:

Description: gibb rd (800m sth of payne rd)

Filter time:

Scheme:

11:14 Tuesday, 18 February 2020 => 13:41 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

Hour  0000-0100		Mon 17 Feb	Tue 18 Feb	Wed 19 Feb	Thu 20 Feb	Fri 21 Feb	Sat 22 Feb	Sun 23 Feb	Average 1 - 5	s 1 - 7
0000-0100         *         *         0         3         0         0         0         1.0         0.6           0100-0200         *         *         0         2         0         0         0         1.0         7         0.4           0200-0300         *         *         0         0         0         0         0         1.0         0	Hour	I/ Feb	10 Feb	19 Feb	20 Feb	ZI FED	ZZ FED	23 FED	1 - 3	1 - /
0100-0200         *         *         0         2         0         0         0         0.77         0.4           0200-0300         *         *         0		*	*	0	3	0	Ω	0	1 0	0.6
0200-0300         *         *         0         2         0         0         0         0.77         0.4           0300-0400         *         *         0         0         0         0         0         0.0         0.0         0         0         0         0.0		*	*					- 1		
0300-0400         *         *         0         1         2         0         0         1         2         0         0         1         2         0         0         1         2         0         0         1         2         0         0         1         2         0         0         1         2         0         0         1         2         0         1         2         0         1         2         0         0         1         2         0         0         0         0		*	*	-		-	-	- 1		
0400-0500         *         *         0         1         0         0         0         0.3         0.2           0500-0600         *         *         0         1         1         1         1         0.7         0.8           0600-0700         *         *         1         3         2         0         0         1         2.0         1.2           0700-0800         *         *         8         8         7         5         0         0         1         6.7         4.0           0800-0900         *         *         3         7         2         1         8         1         4.0         4.2           0900-1000         *         *         9         7         2         1         7         1         6.0         5.2           1000-1100         *         *         8         8         2         3         2         3         1         4.3         3.6           1100-1200         *         5         3         3         3         5         4         4         3.5         4.3           1200-1300         *         1         8         3		*	*	-			-	- 1		
0500-0600         *         *         0         1         1         1         1         0.77         0.8           0600-0700         *         *         1         3         2         0         0         1.20         1.2           0700-0800         *         *         8         8         7         5         0         0         1.2         0         1.2         0         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         0         1.2         0         1.2         0         0         1.2         0         1.2         0         0         1.2         0         1.2         0         0         1.2         0         0         1.2         0         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         0         1.2         1.2         0         1.2         1.2         0         1.2         1.2         1.2         1.		*	*	-	-		-	- ,		
0600-0700         *         *         1         3         2         0         0           2.0         1.2           0700-0800         *         *         8         7         5         0         0           6.7         4.0           0800-0900         *         *         3         7         2         1         8           4.0         4.2           0900-1000         *         *         9         7         2         1         7           6.0         5.2           1000-1100         *         *         8         2         3         2         3           4.3         3.6           1100-1200         *         5         3         3         3         5         4           3.5         3.8           1200-1300         *         1         8         3         2         6         6           3.5         4.3           1300-1400         *         1         4         4         2         1         3         1.2.8         2.5           1400-1500         *         3         5         2         3         2         3         3         3         3         2         3 </th <th></th> <th>*</th> <th>*</th> <th>-</th> <th></th> <th>-</th> <th>-</th> <th>- 1</th> <th></th> <th></th>		*	*	-		-	-	- 1		
0700-0800         *         *         8         7         5         0         0           6.7         4.0           0800-0900         *         *         3         7         2         1         8           4.0         4.2           0900-1000         *         *         9         7         2         1         7           6.0         5.2           1000-1100         *         *         8         2         3         2         3           4.3         3.6           1100-1200         *         5         3         3         3         5         4           3.5         3.8           1200-1300         *         1         8         3         2         6         6           3.5         4.3           1300-1400         *         1         4         4         2         1         3         2.8         2.5           1400-1500         *         3         5         2         3         2         3         1         3.3         3.0           1500-1600         *         6         5         8         8         9         2           6.8         6.3           1	0600-0700	*	*	1	3		0	0 1	2.0	1.2
0900-1000         *         *         9         7         2         1         7         6.0         5.2           1000-1100         *         *         8         2         3         2         3         4.3         3.6           1100-1200         *         5         3         3         3         5         4         1         3.5         3.8           1200-1300         *         1         8         3         2         6         6         1         3.5         4.3           1300-1400         *         1         4         4         2         1         3         2.8         2.5           1400-1500         *         3         5         2         3         2         3 <t< th=""><th>0700-0800</th><th>*</th><th>*</th><th>8</th><th>7</th><th></th><th>0</th><th>0 1</th><th></th><th></th></t<>	0700-0800	*	*	8	7		0	0 1		
1000-1100         *         *         8         2         3         2         3   4.3         3.6           1100-1200         *         5         3         3         3         5         4   3.5         3.8           1200-1300         *         1         8         3         2         6         6   3.5         4.3           1300-1400         *         1         4         4         2         1         3   2.8         2.5           1400-1500         *         3         5         2         3         2         3   3.3         3.0           1500-1600         *         6         5         8         8         9         2   6.8         6.3           1600-1700         *         7         1         3         2         0         1   3.3         2.3           1700-1800         *         6         2         3         4         2         3   3.8         3.3           1800-1900         *         3         4         2         5         1         0   3.5         2.5           1900-2000         *         1         7         1         4         0         0   3.3         2.2	0800-0900	*	*	3	7	2	1	8	4.0	4.2
1100-1200         *         5         3         3         3         5         4                   3.5         3.8           1200-1300         *         1         8         3         2         6         6                   3.5         4.3           1300-1400         *         1         4         4         2         1         3                   2.8         2.5           1400-1500         *         3         5         2         3         2         3         1         3.3         3.0           1500-1600         *         6         5         8         8         9         2                   6.8         6.3           1600-1700         *         7         1         3         2         0         1         3.3         2.3           1700-1800         *         6         2         3         4         2         3         1         3.8         3.3           1800-1900         *         3         4         2         5         1         0         1         3.5         2.5           1900-2000         *         1         7         1         4	0900-1000	*	*	9	7	2	1	7	6.0	5.2
1200-1300         *         1         8         3         2         6         6                   3.5         4.3           1300-1400         *         1         4         4         2         1         3                   2.8         2.5           1400-1500         *         3         5         2         3         2         3                   3.3         3.0           1500-1600         *         6         5         8         8         9         2                   6.8         6.3           1600-1700         *         7         1         3         2         0         1         1         3.3         2.3           1700-1800         *         6         2         3         4         2         3                   3.8         3.3           1800-1900         *         3         4         2         5         1         0                   3.5         2.5           1900-2000         *         1         7         1         4         0         0         1         3.3         2.2           2000-2100         *         0         1         0	1000-1100	*	*	8	2	3	2	3	4.3	3.6
1300-1400         *         1         4         4         2         1         3           2.8         2.5           1400-1500         *         3         5         2         3         2         3           3.3         3.0           1500-1600         *         6         5         8         8         9         2           6.8         6.3           1600-1700         *         7         1         3         2         0         1           3.3         2.3           1700-1800         *         6         2         3         4         2         3         1.8         3.3           1800-1900         *         3         4         2         5         1         0         3.5         2.5           1900-2000         *         1         7         1         4         0         0         3.3         2.2           2000-2100         *         0         1         0         1         0         1         0.5         0.5           2100-2200         *         0         0         0         0         0         0         0         0         0         0         0	1100-1200	*	5	3	3	3	5	4	3.5	3.8
1400-1500       *       3       5       2       3       2       3   3.3       3.0         1500-1600       *       6       5       8       8       9       2   6.8       6.3         1600-1700       *       7       1       3       2       0       1   3.3       2.3         1700-1800       *       6       2       3       4       2       3   3.8       3.3         1800-1900       *       3       4       2       5       1       0   3.5       2.5         1900-2000       *       1       7       1       4       0       0   3.3       2.2         2000-2100       *       0       1       0       1       0       1   0.5       0.5         2100-2200       *       0       0       0       0       1       2   0.0       0.5         2200-2300       *       1       0       1       0       0       0       0       0       0         2300-2400       *       0       3       0       0       0       0       0       0       0       0       0       0       0       0       0	1200-1300	*	1	8	3	2	6	6	3.5	4.3
1500-1600         *         6         5         8         8         9         2   6.8         6.3           1600-1700         *         7         1         3         2         0         1   3.3         2.3           1700-1800         *         6         2         3         4         2         3   3.8         3.3           1800-1900         *         3         4         2         5         1         0   3.5         2.5           1900-2000         *         1         7         1         4         0         0   3.3         2.2           2000-2100         *         0         1         0         1         0         1   0.5         0.5           2100-2200         *         0         0         0         0         1         2   0.0         0.5           2200-2300         *         1         0         1         0 </th <th>1300-1400</th> <th>*</th> <th>1</th> <th>4</th> <th>4</th> <th>2</th> <th>1</th> <th>3  </th> <th>2.8</th> <th>2.5</th>	1300-1400	*	1	4	4	2	1	3	2.8	2.5
1600-1700       *       7       1       3       2       0       1   3.3       2.3         1700-1800       *       6       2       3       4       2       3   3.8       3.3         1800-1900       *       3       4       2       5       1       0   3.5       2.5         1900-2000       *       1       7       1       4       0       0   3.3       2.2         2000-2100       *       0       1       0       1       0       1   0.5       0.5         2100-2200       *       0       0       0       0       1       2   0.0       0.5         2200-2300       *       1       0       1       0       0       0       0       0         2300-2400       *       0       3       0       0       0       0       0       0       0       0	1400-1500	*	3		2	3	2	3		3.0
1700-1800       *       6       2       3       4       2       3   3.8       3.3         1800-1900       *       3       4       2       5       1       0   3.5       2.5         1900-2000       *       1       7       1       4       0       0   3.3       2.2         2000-2100       *       0       1       0       1   0.5       0.5         2100-2200       *       0       0       0       0       1       2   0.0       0.5         2200-2300       *       1       0       1       0	1500-1600	*		5	8		9	2	6.8	6.3
1800-1900     *     3     4     2     5     1     0           3.5     2.5       1900-2000     *     1     7     1     4     0     0           3.3     2.2       2000-2100     *     0     1     0     1     0     1     0.5     0.5       2100-2200     *     0     0     0     0     1     2           0.0     0.5       2200-2300     *     1     0     1     0     0     0     0     0.5     0.3       2300-2400     *     0     3     0     0     0     0     0     0     0.8     0.5	1600-1700	*	7				0	1		2.3
1900-2000       *       1       7       1       4       0       0               3.3       2.2         2000-2100       *       0       1       0       1       0       1       0.5       0.5         2100-2200       *       0       0       0       0       1       2               0.0       0.5         2200-2300       *       1       0       1       0       0       0       0       0.5       0.3         2300-2400       *       0       3       0       0       0       0       0       0.8       0.5	1700-1800	*	6		3		2	3	3.8	3.3
2000-2100								- 1		
2100-2200			_		_		-	- 1		
2200-2300 * 1 0 1 0 0 0 0 0.5 0.3 2300-2400 * 0 3 0 0 0 0 0 0.8 0.5			_		_		_	- 1		
<b>2300-2400</b> * 0 3 0 0 0 0 0 0.8 0.5					0					
				-			-	- 1		
Totals	2300-2400	*	0	3	0	0	0	0	0.8	0.5
	Totals									
<b>0700-1900</b> * * 60 51 41 30 40 51.3 45.2	0700-1900	*	*	60	5.1	41	3.0	40	51 3	45.2
0600-2200 * * 69 55 48 31 43 57.0 49.5										
0600-0000 * * 72 56 48 31 43 58.3 50.4		*	*							
0000-0000 * * 72 65 49 32 44 61.6 52.8		*	*							
12 22 43	0000-0000			12	00	43	32	144	01.0	02.0
AM Peak * * 0900 0900 0700 1100 0800	AM Peak	*	*	0900	0900	0700	1100	0800 i		
* * 9 7 5 5 8		*	*							
i i								i		
PM Peak * 1600 1200 1500 1500 1500   * 7 8 8 8 9 6	PM Peak									

\* - No data.

#### Note:

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- 2. Number in green highlight is the average vehicle movements on weekdays only
- 3. Number in blue highlight is the average vehicle movements over the data set (5 days)

13.1 Attachment G **Traffic Count Data** 

WeeklyVehicle-185 Page 3

25 March 2020

#### **Weekly Vehicle Counts**

WeeklyVehicle-185

2020006.0.1NS

Description:

Filter time:

Scheme:

gibb rd (800m sth of payne rd)
11:14 Tuesday, 18 February 2020 => 13:41 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 24 Feb	Tue 25 Feb	Wed 26 Feb	Thu 27 Feb	Fri 28 Feb	Sat 29 Feb	01 Mar	Average 1 - 5	s 1 - 7
Hour							1		
0000-0100	0	0	0	0	0	0	0 i	0.0	0.0
0100-0200	0	0	2	0	0	0	0 1	0.4	0.3
0200-0300	0	0	0	0	0	0	0 1	0.0	0.0
0300-0400	0	0	0	0	0	0	0 1	0.0	0.0
0400-0500	1	0	0	0	0	0	0 1	0.2	0.1
0500-0600	0	0	0	0	0	1	0	0.0	0.1
0600-0700	2	2	2	1	2	0	1	1.8	1.4
0700-0800	5	6	4	7	4	1	1	5.2	4.0
0800-0900	3	3	2	1	3	2	7	2.4	3.0
0900-1000	1	3	2	4	1	3	4	2.2	2.6
1000-1100	4	6	4	2	3	2	2	3.8	3.3
1100-1200	5	4	4	3	6	6	7	4.4	5.0
1200-1300	2	2	2	2	5	4	4	2.6	3.0
1300-1400	2	2	4	3	5	9	5	3.2	4.3
1400-1500	6	3	4	1	6	6	2	4.0	4.0
1500-1600	1	7	6	3	6	6	3	4.6	4.6
1600-1700	4	10	5	4	5	6	6	5.6	5.7
1700-1800	3	5	3	5	8	5	3	4.8	4.6
1800-1900	0	0	1	3	4	0	2	1.6	1.4
1900-2000	0	0	0	0	1	0	0	0.2	0.1
2000-2100	0	0	0	1	2	0	4	0.6	1.0
2100-2200	0	0	0	0	0	1	1	0.0	0.3
2200-2300	1	1	0	0	0	0	0	0.4	0.3
2300-2400	0	0	1	0	0	0	0 [	0.2	0.1
Totals									
0700-1900	36	51	41	38	56	50	46	44.4	45.4
0600-2200	38	53	43	40	61	51	52	47.0	48.3
0600-0000	39	54	44	40	61	51	52	47.6	48.7
0000-0000	40	54	46	40	(61)	52	52	48.2	49.3
AM Peak	1100 5	1000 6	1100 4	0700 7	1100 6	1100 6	1100   7		
PM Peak	1400 6	1600 10	1500 6	1700 5	1700	1300	1600   6		

\* - No data.

#### Note:

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- 2. Number in green highlight is the average vehicle movements on weekdays only
- 3. Number in blue highlight is the average vehicle movements over the data set (7 days)

WeeklyVehicle-185 Page 4

25 March 2020

#### **Weekly Vehicle Counts**

WeeklyVehicle-185

2020006.0.1NS Site:

Description:

Filter time:

Scheme:

gibb rd (800m sth of payne rd)
11:14 Tuesday, 18 February 2020 => 13:41 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 02 Mar	Tue 03 Mar	Wed 04 Mar	Thu 05 Mar	Fri 06 Mar	Sat 07 Mar	08 Mar	Average 1 - 5	s 1 - 7
Hour	OZ PAL	05 Hai	04 Mar	05 Mai	oo Mai	O' Hai	oo nai	1 3	· ,
0000-0100	0	0	0	0	0	0	0	0.0	0.0
0100-0200	0	0	0	0	0	0	0 1	0.0	0.0
0200-0300	0	0	0	0	0	0	0 1	0.0	0.0
0300-0400	0	0	0	0	0	0	0 1	0.0	0.0
0400-0500	0	0	0	0	0	0	0 1	0.0	0.0
0500-0600	1	2	1	1	1	1	0 1	1.2	1.0
0600-0700	1	0	1	2	2	1	3 [	1.2	1.4
0700-0800	0	11	3	5	1	1	0	4.0	3.0
0800-0900	1	3	6	4	2	3	2	3.2	3.0
0900-1000	6	7	3	2	4	1	3	4.4	3.7
1000-1100	2	7	5	5	3	4	2	4.4	4.0
1100-1200	7	4	3	2	2	4	8	3.6	4.3
1200-1300	4	3	1	3	1	5	5	2.4	3.1
1300-1400	2	3	5	1	3	6	1	2.8	3.0
1400-1500	3	3	6	3	5	2	8	4.0	4.3
1500-1600	10	9	7	3	6	4	5 [	7.0	6.3
1600-1700	4	5	2	1	6	6	5 [	3.6	4.1
1700-1800	3	4	2	5	5	3	2	3.8	3.4
1800-1900	1	2	0	3	1	7	2	1.4	2.3
1900-2000	0	1	2	0	2	1	0	1.0	0.9
2000-2100	0	0	7	0	2	3	0	1.8	1.7
2100-2200	1	1	0	0	2	1	2	0.8	1.0
2200-2300	1	1	2	1	0	0	0 [	1.0	0.7
2300-2400	0	2	0	0	0	0	3	0.4	0.7
Totals									
0700-1900	43	61	43	37	39	46	43	44.6	44.6
0600-2200	45	63	53	39	47	52	48	49.4	49.6
0600-0000	46	66	55	40	47	52	51 I	50.8	51.0
0000-0000	47	68	56	41	48	53	51	52.0	52.0
AM Peak	1100 7	0700 11	0800 6	1000 5	0900 4	1100 4	1100		
PM Peak	1500 10	1500	2000	1700	1600	1800	1400   8		

- Numbers in yellow highlight is the total vehicle movements per applicable day.
   Number in green highlight is the average vehicle movements on weekdays only
- 3. Number in blue highlight is the average vehicle movements over the data set (7 days)

25 March 2020

WeeklyVehicle-185 Page 5

#### **Weekly Vehicle Counts**

WeeklyVehicle-185

2020006.0.1NS Site:

Description:

Filter time:

Scheme:

gibb rd (800m sth of payne rd)
11:14 Tuesday, 18 February 2020 => 13:41 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 09 Mar	Tue 10 Mar	Wed 11 Mar	Thu 12 Mar	Fri 13 Mar	Sat 14 Mar	Sun 15 Mar	Average: 1 - 5	s 1 - 7
Hour							I		
0000-0100	0	0	0	*	*	*	*	0.0	0.0
0100-0200	0	0	0	*	*	*	*	0.0	0.0
0200-0300	0	0	0	*	*	*	*	0.0	0.0
0300-0400	0	0	0	*	*	*	*	0.0	0.0
0400-0500	0	1	0	*	*	*	*	0.3	0.3
0500-0600	1	1	0	*	*	*	*	0.7	0.7
0600-0700	3	1	3	*	*	*	* 1	2.3	2.3
0700-0800	7	2	.3	*	*	*	*	4.0	4.0
0800-0900	7	4	3	*	*	*	*	4.7	4.7
0900-1000	6	3	0	*	*	*	*	3.0	3.0
1000-1100	6	4	0	*	*	*	*	3.3	3.3
1100-1200	6	2	0	*	*	*	* 1	2.7	2.7
1200-1300	5	1	0	*	*	*	*	2.0	2.0
1300-1400	1	2	0	*	*	*	*	1.0	1.0
1400-1500	6	4	*	*	*	*	*	5.0	5.0
1500-1600	4	7	*	*	*	*	*	5.5	5.5
1600-1700	4	5	*	*	*	*	*	4.5	4.5
1700-1800	6	2	*	*	*		*	4.0	4.0
1800-1900	2	1	*	*	*	*	*	1.5	1.5
1900-2000	0	2	*	*	*	*	* 1	1.0	1.0
2000-2100	0	0	*	*	*	*	*	0.0	0.0
2100-2200	0	0	*	*	*	*	*	0.0	0.0
2200-2300	1	1	*	*	*	*	*	1.0	1.0
2300-2400	0	U	*	*	*	*	*	0.0	0.0
Totals							İ		
0700-1900	60	37	*	*	*	*	*	41.2	41.2
0600-2200	63	40	*	*	*	*	*	44.5	44.5
0600-0000	64	41	*	*	*	*	*	45.5	45.5
0000-0000	65	43	*	*	*	*	*	46.5	46.5
AM Peak	0800	1000	0800	*	*	*	*		
	7	4	3	*	*	*	*		
PM Peak	1700	1500	*	*	*	*	*		
	6	7	*	*	*	*	*		

\* - No data.

#### Note:

- Numbers in yellow highlight is the total vehicle movements per applicable day.
   Averages in this data set are not accurate due to errors on final day of data collection.

13.1 Attachment G **Traffic Count Data** 

Counter 2 WeeklyVehicle-182 Page 1

#### **MetroCount Traffic Executive Weekly Vehicle Counts**

#### WeeklyVehicle-182 -- English (ENA)

Datasets:

Site: Attribute: [2020005] gibb rd (2.6km nth of gale rd)

carbunup

Direction: 7 - North bound A>B, South bound B>A. Lane: 0

**Survey Duration:** 10:50 Tuesday, 18 February 2020 => 13:40 Wednesday, 11 March 2020,

Zone: File: 2020005.EC0 (Plus )

Identifier: U0391M2V MC56-L5 [MC55] (c)Microcom 19Oct04

Algorithm:

Factory default axle (v4.05)
Axle sensors - Paired (Class/Speed/Count) Data type:

Profile:

Filter time: 10:51 Tuesday, 18 February 2020 => 13:40 Wednesday, 11 March 2020 (22.1176)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = North Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Vehicle classification (AustRoads94) Scheme:

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 700 / 700 (100.00%)

25 March 2020

WeeklyVehicle-182 Page 2

#### **Weekly Vehicle Counts**

WeeklyVehicle-182

2020005.0.1NS Site:

Description: gibb rd (2.6km nth of gale rd)

Filter time:

Scheme:

Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 17 Feb	Tue 18 Feb	Wed 19 Feb	Thu 20 Feb	Fri 21 Feb	Sat 22 Feb	Sun 23 Feb	Average 1 - 5	s 1 - 7
Hour	I' I'ED	10 Leb	13 reb	ZU PED	ZI FED	ZZ Teb	23 165	1 3	1 ,
0000-0100	*	*	0	0	0	0	o i	0.0	0.0
0100-0200	*	*	0	0	0	0	0 1	0.0	0.0
0200-0300	*	*	0	0	Ō	0	0 1	0.0	0.0
0300-0400	*	*	0	0	Ö	0	0 1	0.0	0.0
0400-0500	*	*	0	0	0	0	0 1	0.0	0.0
0500-0600	*	*	0	1	1	0	1 i	0.7	0.6
0600-0700	*	*	1	2	3	0	0 1	2.0	1.2
0700-0800	*	*	4	4	1	1	0 i	3.0	2.0
0800-0900	*	*	2	2	1	1	7	1.7	2.6
0900-1000	*	*	4	2	0	3	3	2.0	2.4
1000-1100	*	0	1	2	3	1	0	1.5	1.2
1100-1200	*	4	1	2	3	3	3 [	2.5	2.7
1200-1300	*	1	4	1	4	5	4	2.5	3.2
1300-1400	*	1	0	5	1	1	4	1.8	2.0
1400-1500	*	1	3	3	2	2	4	2.3	2.5
1500-1600	*	4	5	4	5	8	2	4.5	4.7
1600-1700	*	6	1	1	1	0	3	2.3	2.0
1700-1800	*	2	1	2	3	2	1	2.0	1.8
1800-1900	*	3	3	1	6	0	1	3.3	2.3
1900-2000	*	1	0	0	2	0	0	0.8	0.5
2000-2100	*	0	1	0	1	0	1	0.5	0.5
2100-2200	*	0	0	0	0	1	1	0.0	0.3
2200-2300	*	0	0	0	0	0	0 [	0.0	0.0
2300-2400	*	0	0	0	0	0	0	0.0	0.0
Totals							!		
0700-1900	*	*	29	29	30	27	32	29.2	29.3
0600-2200	*	*	31	31	36	28	34	32.4	31.9
0600-2200	*	*	31	31	36	28	34	32.4	31.9
0000-0000	*	*	31	32	37	28	35	33.1	32.5
5500-0000			31	32	31	20	33)	(33.1)	32.3
AM Peak	*	*	0900	0700	1100	1100	0800 i		
	*	*	4	4	3	3	7		
							i		
PM Peak	*	1600	1500	1300	1800	1500	1400		
	*	6	5	5	6	8	4		

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- Number in green highlight is the average vehicle movements on weekdays only
   Number in blue highlight is the average vehicle movements over the data set (5 days)

WeeklyVehicle-182 Page 3

#### **Weekly Vehicle Counts**

WeeklyVehicle-182

2020005.0.1NS

Description:

Filter time:

Scheme:

gibb rd (2.6km nth of gale rd)
10:51 Tuesday, 18 February 2020 => 13:40 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 24 Feb	Tue 25 Feb	Wed 26 Feb	Thu 27 Feb	Fri 28 Feb	Sat 29 Feb	Sun 01 Mar	Average	
	24 Feb	25 Feb	26 Feb	27 Feb	28 Feb	29 Feb	UI Mar	1 - 5	1 - 7
Hour 0000-0100	0	0	0	0	0	0	0 1	0.0	0 0
0100-0100	0	0	0	0	0	0	0 1	0.0	0.0
0200-0300	0	0	0	0	0	0	0 1	0.0	0.0
0300-0400	0	0	0	0	0	0	0 1	0.0	0.0
0400-0500	0	0	0	0	0	0	0 1	0.0	0.0
0500-0600	0	0	0	0	0	0	0 1	0.0	0.0
0600-0700	2	3	1	1	2	0	1 1	1.8	1.4
0700-0800	2	4	3	3	0	1	0 1	2.4	1.9
0800-0900	2	0	1	0	1	0	5 I	0.8	1.3
0900-1000	2	3	2	2	0	3	2	1.8	2.0
1000-1100	3	5	1	1	1	3	2 1	2.2	2.3
1100-1200	5	4	1	2	4	5	3 1	3.2	3.4
1200-1200	3	3	1	0	2	3	6 I	1.8	2.6
1300-1400	2	3	1	3	4	6	6	2.6	3.6
1400-1500	4	1	3	0	5	6	5 1	2.6	3.4
1500-1600	1	6	2	3	4	7	4 1	3.2	3.9
1600-1700	4	5	2	1	3	2	2	3.0	2.7
1700-1800	2	3	1	4	3	5	0 1	2.6	2.6
1800-1900	1	0	1	3	3	0	1 1	1.6	1.3
1900-2000	0	0	0	0	1	0	0 1	0.2	0.1
2000-2100	1	0	Ő	1	1	Ő	1 1	0.6	0.6
2100-2200	0	0	0	0	0	1	1 1	0.0	0.3
2200-2300	0	0	0	0	0	0	0 1	0.0	0.0
2300-2400	0	0	1	0	0	0	0 1	0.2	0.1
			_		-		i		
Totals							i		
0700-1900	31	37	19	22	30	41	36 I	27.8	30.9
0600-2200	34	40	20	24	34	42	39 I	30.4	33.3
0600-0000	34	40	21	24	34	42	39 I	30.6	33.4
0000-0000	34	40	21	24	34	42	(39)	30.6	33.4
AM Peak	1100 5	1000	0700 3	0700 3	1100 4	1100 5	0800   5		
PM Peak	1600 4	1500 6	1400	1700 4	1400 5	1500 7	1300   6		

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- Number in green highlight is the average vehicle movements on weekdays only
   Number in blue highlight is the average vehicle movements over the data set (7 days)

25 March 2020

WeeklyVehicle-182 Page 4

#### **Weekly Vehicle Counts**

WeeklyVehicle-182

2020005.0.1NS Site:

Description:

Filter time:

Scheme:

gibb rd (2.6km nth of gale rd)
10:51 Tuesday, 18 February 2020 => 13:40 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 02 Mar	Tue 03 Mar	Wed 04 Mar	Thu 05 Mar	Fri 06 Mar	07 Mar	08 Mar	Average 1 - 5	s 1 - 7
Hour	OZ MAI	05 Mar	04 Mar	05 Hai	oo Mar	O' Plat	oo nar	1 3	· ,
0000-0100	0	0	0	0	0	0	0	0.0	0.0
0100-0200	0	0	0	0	0	0	0 1	0.0	0.0
0200-0300	0	0	0	0	0	0	0 1	0.0	0.0
0300-0400	0	0	0	0	0	0	0 1	0.0	0.0
0400-0500	0	0	0	0	0	0	0 1	0.0	0.0
0500-0600	1	2	1	1	1	0	0 1	1.2	0.9
0600-0700	1	0	1	2	1	1	2	1.0	1.1
0700-0800	0	5	3	0	1	0	1	1.8	1.4
0800-0900	2	1	2	2	0	1	0	1.4	1.1
0900-1000	4	4	3	0	4	2	0	3.0	2.4
1000-1100	0	6	6	5	2	2	0	3.8	3.0
1100-1200	7	1	1	0	1	2	2	2.0	2.0
1200-1300	3	1	1	1	1	3	5	1.4	2.1
1300-1400	0	0	6	1	1	6	2	1.6	2.3
1400-1500	2	3	5	2	2	0	8	2.8	3.1
1500-1600	5	1	3	3	4	3	4	3.2	3.3
1600-1700	3	2	1	0	3	4	3	1.8	2.3
1700-1800	2	3	3	3	3	3	5	2.8	3.1
1800-1900	2	2	1	4	0	1	2	1.8	1.7
1900-2000	0	1	1	1	1	1	0	0.8	0.7
2000-2100	0	0	3	0	1	0	0	0.8	0.6
2100-2200	0	1	0	0	2	0	1	0.6	0.6
2200-2300	0	0	2	0	0	0	0	0.4	0.3
2300-2400	0	0	0	0	0	0	0 [	0.0	0.0
Totals									
0700-1900	30	29	35	21	22	27	32 I	27.4	28.0
0600-2200	31	31	40	24	27	29	35 I	30.6	31.0
0600-0000	31	31	42	24	27	29	35 I	31.0	31.3
0000-0000	32	33	43	25	28	29	35	32.2	32.1
AM Peak	1100 7	1000	1000	1000 5	0900 4	1100 2	1100		
PM Peak	1500 5	1700	1300	1800	1500 4	1300	1400		

\* - No data.

#### Note:

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- Number in green highlight is the average vehicle movements on weekdays only
   Number in blue highlight is the average vehicle movements over the data set (5 days)

WeeklyVehicle-182 Page 5

#### **Weekly Vehicle Counts**

WeeklyVehicle-182

2020005.0.1NS Site:

Description:

Filter time:

Scheme:

gibb rd (2.6km nth of gale rd)
10:51 Tuesday, 18 February 2020 => 13:40 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 09 Mar	Tue 10 Mar	Wed 11 Mar	Thu 12 Mar	Fri 13 Mar	Sat 14 Mar	Sun 15 Mar	Average 1 - 5	es 1 - 7
Hour	US FIAT	10 Mai	II Mai	IZ MAI	15 Mai	14 Mai	15 Mai	1 - 3	1 - /
0000-0100	0	0	0	*	*	*	*	0.0	0.0
0100-0200	0	0	0	*	*	*	*	0.0	0.0
0200-0300	0	0	0	*	*	*	*	0.0	0.0
0300-0400	0	0	0	*	*	*	*	0.0	0.0
0400-0500	0	1	0	*	*	*	*	0.3	0.3
0500-0600	1	1	0	*	*	*	*	0.7	0.7
0600-0700	3	0	0	*	*	*	* i	1.0	1.0
0700-0800	3	0	0	*	*	*	* i	1.0	1.0
0800-0900	3	2	0	*	*	*	* j	1.7	1.7
0900-1000	3	4	0	*	*	*	*	2.3	2.3
1000-1100	3	4	0	*	*	*	*	2.3	2.3
1100-1200	2	1	0	*	*	*	*	1.0	1.0
1200-1300	2	1	0	*	*	*	*	1.0	1.0
1300-1400	4	1	0	*	*	*	*	1.7	1.7
1400-1500	4	0	*	*	*	*	*	2.0	2.0
1500-1600	4	0	*	*	*	*	*	2.0	2.0
1600-1700	2	0	*	*	*	*	*	1.0	1.0
1700-1800	3	0	*	*	*	*	*	1.5	1.5
1800-1900	2	0	*	*	*	*	*	1.0	1.0
1900-2000	1	0	*	*	*	*	*	0.5	0.5
2000-2100	0	0	*	*	*	*	*	0.0	0.0
2100-2200	0	0	*	*	*	*	*	0.0	0.0
2200-2300	0	0	*	*	*	*	*	0.0	0.0
2300-2400	0	0	*	*	*	*	*	0.0	0.0
Totals							l		
0700-1900	35	13	*	*	*	*	*	18.5	18.5
0600-2200	39	13	*	*	*	*	* 1	20.0	20.0
0600-2200	39	13	*	*	*	*	*	20.0	20.0
0000-0000	40	15	*	*	*	*	*	21.0	21.0
0000-0000	10	15						21.0	21.0
AM Peak	1000	1000	1100	*	*	*	*		
	3	4	0	*	*	*	*		
PM Peak	1500	1300	*	*	*	*	*		
	4	1	*	*	*	*	*		

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- 2. Averages in this data set are not accurate due to errors on final day of data collection.

WeeklyVehicle-178 Page 1



#### **MetroCount Traffic Executive Weekly Vehicle Counts**

#### WeeklyVehicle-178 -- English (ENA)

Datasets: Site: Attribute: [2020004] gibb rd (50m nth of gale rd)

carbunup

7 - North bound A>B, South bound B>A. Lane: 0 Direction:

**Survey Duration:** 10:36 Tuesday, 18 February 2020 => 13:38 Wednesday, 11 March 2020,

Zone: File: 2020004.EC0 (Plus )

Identifier: HJ10JQ53 MC56-L5 [MC55] (c)Microcom 19Oct04

Algorithm:

Factory default axle (v4.05)
Axle sensors - Paired (Class/Speed/Count) Data type:

Profile:

Filter time: 10:37 Tuesday, 18 February 2020 => 13:38 Wednesday, 11 March 2020 (22.1258)

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Speed range: 10 - 160 km/h.

Direction: North, East, South, West (bound), P = North Separation: Headway > 0 sec, Span 0 - 100 metre

Name: Default Profile

Vehicle classification (AustRoads94) Scheme:

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

In profile: Vehicles = 1030 / 1031 (99.90%) 13.1 Attachment G **Traffic Count Data** 

WeeklyVehicle-178 Page 2

25 March 2020

#### **Weekly Vehicle Counts**

WeeklyVehicle-178

2020004.0.1NS Site:

Description: gibb rd (50m nth of gale rd)

10:37 Tuesday, 18 February 2020 => 13:38 Wednesday, 11 March 2020 Vehicle classification (AustRoads94) Filter time:

Scheme:

Filter: Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100)

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Average	
	17 Feb	18 Feb	19 Feb	20 Feb	21 Feb	22 Feb	23 Feb	1 - 5	1 - 7
Hour							I		
0000-0100	*	*	0	0	0	0	0	0.0	0.0
0100-0200	*	*	1	1	0	0	0 1	0.7	0.4
0200-0300	*	*	0	0	0	0	0	0.0	0.0
0300-0400	*	*	0	0	0	0	0 [	0.0	0.0
0400-0500	*	*	0	0	0	1	0	0.0	0.2
0500-0600	*		0	0	0	1	1	0.0	0.4
0600-0700	*	*	0	1	0	1	0 1	0.3	0.4
0700-0800			5	5	4	1	2	4.7	3.4
0800-0900	*	*	6	5	3	3	4	4.7	4.2
0900-1000	*		2	3	3	6	4	2.7	3.6
1000-1100	*	4	1	1	5	1	1	2.8	2.2
1100-1200	*	2	2	3	7	5	3	3.5	3.7
1200-1300	*	3	3	1	3	6	2	2.5	3.0
1300-1400	*	3 4	1 <b>7</b>	2	1	2 5	10	1.8	3.2
1400-1500 1500-1600	*	2	5	4 2	2		4	3.3	4.3
1600-1600	*	6	2	3	2	<b>11</b> 0	2	3.3	<b>4.3</b> 2.7
1700-1700	*	6	4	6	4	2	0 1	5.0	3.7
1800-1900	*	1	3	1	5	1	3 1	2.5	2.3
1900-1900	*	2	1	1	1	0	1 1	1.3	1.0
2000-2100	*	0	0	0	5	1	0 1	1.3	1.0
2100-2100	*	0	0	0	1	2	4 1	0.3	1.0
2200-2300	*	0	0	0	0	0	0 1	0.0	0.0
2300-2400	*	0	0	1	0	0	1 1	0.3	0.0
2300-2400		0	U	1	U	U	± 1	0.3	0.3
Totals									
0700-1900	*	*	41	36	43	43	38	40.8	40.5
0600-2200	*	*	42	38	50	47	43	43.8	44.1
0600-0000	*	*	42	39	50	47	44	44.1	44.4
0000-0000	*	*	43	40	50	49	(45) I	44.8	45.4
AM Peak	*	*	0800	0800	1100	0900	0900		
	*	*	6	5	7	6	4		
PM Peak	*	1700	1400	1700	2000	1500	1300		
	*	6	7	6	5	11	10		

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- 2. Number in green highlight is the average vehicle movements on weekdays only3. Number in blue highlight is the average vehicle movements over the data set (5 days)

25 March 2020

WeeklyVehicle-178 Page 3

#### **Weekly Vehicle Counts**

WeeklyVehicle-178

2020004.0.1NS Site:

Description:

Filter time:

Scheme:

gibb rd (50m nth of gale rd)
10:37 Tuesday, 18 February 2020 => 13:38 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon 24 Feb	Tue 25 Feb	Wed 26 Feb	Thu 27 Feb	Fri 28 Feb	Sat 29 Feb	01 Mar	Average 1 - 5	s 1 - 7
Hour									
0000-0100	0	0	0	0	0	0	0 i	0.0	0.0
0100-0200	0	0	0	0	0	0	0 1	0.0	0.0
0200-0300	0	1	1	0	0	0	0 1	0.4	0.3
0300-0400	0	0	0	0	0	0	0 1	0.0	0.0
0400-0500	0	0	0	0	0	0	0 1	0.0	0.0
0500-0600	0	0	0	0	0	1	0 1	0.0	0.1
0600-0700	0	1	1	0	0	1	0 1	0.4	0.4
0700-0800	5	8	5	5	2	0	2	5.0	3.9
0800-0900	4	1	3	3	2	2	4 i	2.6	2.7
0900-1000	3	3	2	4	3	7	8	3.0	4.3
1000-1100	3	4	2	2	1	6	2	2.4	2.9
1100-1200	6	3	2	5	4	3	2	4.0	3.6
1200-1300	5	5	1	0	3	8	7	2.8	4.1
1300-1400	3	4	2	3	4	8	5 [	3.2	4.1
1400-1500	4	5	7	2	7	6	5 [	5.0	5.1
1500-1600	1	4	3	1	6	11	3 [	3.0	4.1
1600-1700	2	7	5	1	4	5	0 [	3.8	3.4
1700-1800	3	7	2	10	8	4	1	6.0	5.0
1800-1900	0	1	1	4	1	0	1	1.4	1.1
1900-2000	1	1	1	1	1	1	0	1.0	0.9
2000-2100	1	1	0	1	0	0	3	0.6	0.9
2100-2200	0	0	0	3	0	0	1	0.6	0.6
2200-2300	0	0	0	0	0	0	0	0.0	0.0
2300-2400	0	0	0	0	0	0	0	0.0	0.0
Totals							 		
_									
0700-1900	39	52	35	40	45	60	40	42.2	44.4
0600-2200	41	55	37	45	46	62	44	44.8	47.1
0600-0000	41	55	37	45	46	62	44	44.8	47.1
0000-0000	41	56	38	45	46	63	44	45.2	47.6
AM Peak	1100	0700 8	0700	1100 5	1100 4	0900 7	0900   8		
PM Peak	1200	1700	1400	1700 10	1700	1500 11	1200   7		

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- Number in green highlight is the average vehicle movements on weekdays only
   Number in blue highlight is the average vehicle movements over the data set (7 days)

WeeklyVehicle-178 Page 4

25 March 2020

#### **Weekly Vehicle Counts**

WeeklyVehicle-178

2020004.0.1NS Site:

Description:

Filter time:

Scheme:

gibb rd (50m nth of gale rd)
10:37 Tuesday, 18 February 2020 => 13:38 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Average	
	02 Mar	03 Mar	04 Mar	05 Mar	06 Mar	07 Mar	08 Mar	1 - 5	1 - 7
Hour 0000-0100	0	0	0	0	0	0	0 1	0 0	0 0
	0	0	0	0	0	-	0	0.0	0.0
0100-0200 0200-0300	0	0	0	0		0	0	0.0	0.0
	0	-	0	0	0	0	0	0.0	0.0
0300-0400	0	0	0	0	0	0	0	0.0	0.0
0400-0500 0500-0600	0	-	0	0	0	0	0 1	0.0	0.0
0600-0700	2	0	0	0	0	0 2	2 1	0.0	0.0
0700-0800	3	4	4	4	3	3	2 1	3.6	3.3
0800-0900	6	4	6	4	6	3	1	5.2	4.3
0900-1000	5	5	1	4	5	1	3 1	4.0	3.4
1000-1100	1	7	4	6	3	9	1 1	4.0	4.4
1100-1200	8	3	1	1	2	2	5	3.0	3.1
1200-1300	4	4	2	2	1	5	5	2.6	3.3
1300-1400	2	1	7	2	1	5	2	2.6	2.9
1400-1500	3	5	6	1	1	3	8	3.2	3.9
1500-1600	3	3	4	2	1	5	6 1	2.6	3.4
1600-1700	3	3	5	2	4	1	2	3.4	2.9
1700-1800	3	4	6	5	7	3	6 1	5.0	4.9
1800-1900	2	3	1	3	3	2	4 1	2.4	2.6
1900-2000	0	1	1	1	3	1	0 i	1.2	1.0
2000-2100	0	1	4	0	1	0	0 1	1.2	0.9
2100-2200	0	1	1	0	4	0	1	1.2	1.0
2200-2300	0	0	0	0	2	0	1	0.4	0.4
2300-2400	0	0	0	0	1	1	0	0.2	0.3
Totals							I		
0700-1900	43	46	47	36	37	42	45 I	41.8	42.3
0600-2200	45	49	53	37	45	45	45 I	45.8	46.0
0600-2200	45	49	53	37	48	46	49	46.4	46.7
0000-0000	45	49	53	37	48	46	49	46.4	46.7
0000-0000	45	49	33	31	40	40	49 1	40.4	40.7
AM Peak	1100	1000 7	0800 6	1000 6	0800 6	1000 9	1100   5		
PM Peak	1200	1400 5	1300 7	1700 5	1700 7	1500 5	1400   8		

- 1. Numbers in yellow highlight is the total vehicle movements per applicable day.
- Number in green highlight is the average vehicle movements on weekdays only
   Number in blue highlight is the average vehicle movements over the data set (7 days)

25 March 2020

WeeklyVehicle-178 Page 5

### **Weekly Vehicle Counts**

WeeklyVehicle-178

2020004.0.1NS

Description:

Filter time:

Scheme:

gibb rd (50m nth of gale rd)
10:37 Tuesday, 18 February 2020 => 13:38 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Average	
	09 Mar	10 Mar	11 Mar	12 Mar	13 Mar	14 Mar	15 Mar	1 - 5	1 - 7
Hour							. !		
0000-0100	0	0	0	*	*	*	*	0.0	0.0
0100-0200	0	0	0	*	*	*	*	0.0	0.0
0200-0300	0	0	0	*	*	*	*	0.0	0.0
0300-0400	0	0	0	*	*	*	*	0.0	0.0
0400-0500	0	0	0	*	*	*	*	0.0	0.0
0500-0600	0	0	0	*	*	*	*	0.0	0.0
0600-0700	1	0	0	*	*	*	* !	0.3	0.3
0700-0800	4	1	10	*	*	*	*	5.0	5.0
0800-0900	5	3	1				*	3.0	3.0
0900-1000	7	7	0	*	*	*	* 1	4.7	4.7
1000-1100	5	7	0	*	*	*	*	4.0	4.0
1100-1200	2	5	0	*	*	*	*	2.3	2.3
1200-1300	3	3	0		*	*		2.0	2.0
1300-1400	5	5	0	*	*	*	*	3.3	3.3
1400-1500	2	8	*	*	*	*		5.0	5.0
1500-1600	3	2	*	*	*		* 1	2.5	2.5
1600-1700	3	5	*	*	*	*	*	4.0	4.0
1700-1800	5	1	*	*	*	*	*	3.0	3.0
1800-1900	3	3	*	*	*	*	*	3.0	3.0
1900-2000	1	0	*	*	*	*	*	0.5	0.5
2000-2100	0	0	*	*	*	*	*	0.0	0.0
2100-2200	0	0	*	*	*	*	*	0.0	0.0
2200-2300	0	0	*	*	*	*	*	0.0	0.0
2300-2400	0	0	*	*	*	*	* !	0.0	0.0
Totals									
0700-1900	47	50	*	*	*	*	* 1	41.8	41.8
0600-2200	49	50	*	*	*	*	* 1	42.7	42.7
0600-2200	49	50	*	*	*	*	*	42.7	42.7
0000-0000	49	50	*	*	*	*	* 1	42.7	42.7
0000-0000	49	30					~	42.7	42.7
AM Peak	0900	1000	0700	*	*	*	* i		
	7	7	10	*	*	*	* i		
PM Peak	1700	1400	*	*	*	*	*		
	5	8	*	*	*	*	*		

\* - No data.

Numbers in yellow highlight is the total vehicle movements per applicable day.
 Averages in this data set are not accurate due to errors on final day of data collection.

#### Traffic Count Data

#### **AUSTROADS Vehicle Classification System**

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Level 1	Level 2 Axles and		Level 3			AUGTROARS Glassification							
Length			Vehicle Type		<b>AUSTROADS Classification</b>								
(indicative)	Axle Groups Axles Groups				Parameter Project Confirmation								
Type	Axles	Groups	Typical Description	Class	Parameters	Typical Configuration							
1		_		_	LIGHT VEHIC	LES							
Short			Short										
up to 5.5m		1 or 2	Sedan, Wagon, 4WD, Utility,	1	d(1) ≤ 3.2m and axles = 2								
			Light Van, Bicycle, Motorcycle, etc										
			Short - Towing		groups = 3								
1	3, 4 or 5	3	Trailer, Caravan, Boat, etc	2	$d(1) \ge 2.1m, d(1) \le 3.2m,$								
1	,	`	Trailor, Garattan, Boat, Gto	-	d(2) ≥ 2.1m and axles = 3, 4 or 5								
1					HEAVY VEHIC	DIES .							
1					112777 72711								
Medium	2	2	Two Axle Truck or Bus	3	d(1) > 3.2m and axles = 2								
5.5m to 14.5m	$\vdash$												
3.31110 14.311	3	2	Three Axle Truck or Bus		axles = 3 and groups = 2								
	> 3	2	Four Axle Truck	5	axles > 3 and groups = 2								
	3	3	Three Axle Articulated Three axle articulated vehicle, or Rigid vehicle and trailer	6	d(1) > 3.2m, axles = 3 and groups = 3								
Long	4	> 2	Four Axle Articulated Four axle articulated vehicle, or Rigid vehicle and trailer	7	d(2) < 2.1m or d(1) < 2.1m or d(1) > 3.2m axles = 4 and groups > 2								
11.5m to 19.0m	5	> 2	Five Axle Articulated Five axle articulated vehicle, or Rigid vehicle and trailer	8	d(2) < 2.1m or d(1) < 2.1m or d(1) > 3.2m axles = 5 and groups > 2								
	≥ 6	> 2	Six Axle Articulated Six axle articulated vehicle, or Rigid vehicle and trailer	9	axles = 6 and groups > 2 or axles > 6 and groups = 3								
Medium Combination	> 6	4	<b>B Double</b> B Double, or Heavy truck and trailer	10	groups = 4 and axles > 6								
17.5m to 36.5m	> 6	5 or 6	Double Road Train  Double road train, or Medium articulated vehicle and one dog trailer (M.A.D.)	11	groups = 5 or 6 and axles > 6								
Large Combination Over 33.0m	> 6	> 6	<b>Triple Road Train</b> Triple road train, or Heavy truck and three trailers	12	groups > 6 and axles > 6								

Definitions: Group: Axle group, where adjacent axles are less than 2.1m apart

Groups: Number of axle groups

Axles: Number of axles (maximum axle spacing of 10.0m)

d(1): Distance between first and second axle

d(2): Distance between second and third axle

Council 285 25 March 2020 Attachment G Traffic Count Data

ClassMatrix-187 Page 2 Counter 1

### **Class Speed Matrix**

ClassMatrix-187

Site: 2020006.0.1NS

Description:

Filter time:

Scheme:

gibb rd (800m sth of payne rd)
11:14 Tuesday, 18 February 2020 => 13:41 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

Speed	(km/h)						С	lass							Speed	Totals
			sv	SVT	TB2	TB3	Т4	ART3	ART4	ART5	ART6	BD	DRT	TRT		
			1	2	3	4	5	6	7	8	9	10	11	12		
10	- 20	- 1	2	1											3	0.3%
20	- 30	- 1	13											.	13	1.2%
30	- 40	- 1	18	1	2									. 1	21	1.9%
40	- 50		31	8	4			1						. 1	44	3.9%
50	- 60	-	114	8	10	2	1	2	1	3				. 1	141	12.6%
60	- 70		229	21	9	3	1	3	2					. 1	268	23.9%
70	- 80	-	266	19	10			1	2	1				. 1	299	26.6%
80	- 90		203	12	19		1		2					. 1	237	21.1%
90	- 100		64		4									.	68	6.1%
100	- 110		19		3									. 1	22	2.0%
110			4		1									. 1	5	0.4%
	- 130		1											. 1	1	0.1%
	- 140													. 1	0	0.0%
	- 150													. 1	0	0.0%
150	- 160													. 1	0	0.0%
		_!_														
Class	Totals	:	964	70	62	5	3	7	7	4	0	0	0	0	1122	
			85.9%	6.2%	5.5%	0.4%	0.3%	0.6%	0.6%	0.4%	0.0%	0.0%	0.0%	0.0%		

Counter 2

ClassMatrix-184 Page 2

#### **Class Speed Matrix**

ClassMatrix-184

Site: 2020005.0.1NS

Description:

Filter time:

Scheme:

gibb rd (2.6km nth of gale rd)
10:51 Tuesday, 18 February 2020 => 13:40 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

Speed	(km/h)						С	lass							Speed	Totals
			sv	SVT	TB2	TB3	Т4	ART3	ART4	ART5	ART6	BD	DRT	TRT		
			1	2	3	4	5	6	7	8	9	10	11	12		
10	- 20	- 1	10		3									·	13	1.9%
20	- 30		71	3	9									.	83	11.9%
30	- 40		72	3	8	1								.	84	12.0%
40	- 50	- 1	110	5	10	3		1	4					.	133	19.0%
50	- 60	-	119	12	11				1					. 1	143	20.4%
60	- 70		143	4	6		1							.	154	22.0%
70	- 80	-	57		8									.	65	9.3%
80	- 90		12		3									.	15	2.1%
90	- 100		4		3									.	7	1.0%
100			1		2									.	3	0.4%
110														.	0	0.0%
	- 130													.	0	0.0%
	- 140													.	0	0.0%
	- 150													.	0	0.0%
150	- 160													.	0	0.0%
		_!-												!		
Class	Totals	3	599	27	63	4	1	1	5	0	0	0	0	0	700	
			85.6%	3.9%	9.0%	0.6%	0.1%	0.1%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%		

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Counter 3

ClassMatrix-181 Page 2

### **Class Speed Matrix**

ClassMatrix-181

Site: 2020004.0.1NS

Attachment G

Description:

Filter time:

Scheme:

gibb rd (50m nth of gale rd)
10:37 Tuesday, 18 February 2020 => 13:38 Wednesday, 11 March 2020
Vehicle classification (AustRoads94)
Cls(1 2 3 4 5 6 7 8 9 10 11 12 ) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Filter:

Speed (km/h)					C	lass							Speed	Totals
	sv	SVT	TB2	TB3	T4	ART3	ART4	ART5	ART6	BD	DRT	TRT		
	1	2	3	4	5	6	7	8	9	10	11	12		
10 - 20	70		4		1								75	7.3%
20 - 30	78	4	13	4								. 1	99	9.6%
30 - 40	251	17	25	10	1		3					.	307	29.8%
40 - 50	351	15	35	3		1	1					.	406	39.4%
50 - 60	116	4	16				1					.	137	13.3%
60 - 70	4	1										.	5	0.5%
70 - 80	1											.	1	0.1%
80 - 90												. 1	0	0.0%
90 - 100												.	0	0.0%
100 - 110												. 1	0	0.0%
110 - 120												.	0	0.0%
120 - 130												. 1	0	0.0%
130 - 140												.	0	0.0%
140 - 150												. 1	0	0.0%
150 - 160												.	0	0.0%
												!		
Class Totals	871	41	93	17	2	1	5	0	0	0	0	0	1030	
ı	84.6%	4.0%	9.0%	1.7%	0.2%	0.1%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%		

Traffic Count Data

# City Of Busselton Advice on Rural Roads and

**Extraction Activity** 



Further to your recent communications and questions in regard to proposed extraction activities affecting local roads, I provide the following comments. A glossary of terms is attached at Appendix A.

1. What are the underlying principles and standards that should be applied to assessment of traffic impact?

The key principles are to provide a safe and efficient road network. Safety is the primary objective.

Austroads is the guide that is typically relied upon in Australia in regard to road design. However, many States have their own road design guidelines (such as Main Roads) that may allow for a lesser standard. Where such guidelines exist, these may be relied upon.

 It is considered that the three fundamental issues are network efficiency, safety and asset management (in some contexts, amenity may also be a significant factor) – do these need to be considered separately, or are they all considered and embedded in standards that should be applied?

In theory they are all contained in the standards applied except amenity. Amenity is covered by Liveable Neighbourhoods in regard to urban residential areas. However, I am not aware of an amenity guideline or threshold applicable to rural roads.

There is a State Planning Policy (SPP 5.4) that deals with road and rail noise. However the thresholds start at 500 vehicles per day.

3. What weightings should be applied to different kinds of vehicles in different contexts? (e.g. a semi-trailer movement has more impact than a light vehicle movement, what weighting should be applied to the semitrailer, and is it a different weighting depending on the issue being considered?)

> Normally the application of the PCU factor would be the weighting. However, the PCU factor is used to determine network efficiency as

Busselton Extractive Industries



it represents the acceleration characteristics of larger vehicles compared to cars.

It should be noted that the traffic flow threshold levels are vehicles and this would include as-of-right trucks. No distinction is made. Whilst a typical urban road may carry 3% larger vehicles, the proportion is more likely to be 10% to 20% in a rural environment. However, a comparison to Bussell Highway could be made to set the level at which the proportion of trucks could be considered acceptable. North of Cowaramup the proportion is 12%.

4. With respect to the application specifically, what are your recommendations and rationale in terms of – (1) the acceptability of standard of the roads proposed to be used for haulage, both before and after the upgrade of Gibb Rd as per the recommended condition of approval, (2) what controls on traffic movements would be appropriate and (3) any other recommendations on reasonable conditions that may be applied and which are considered necessary to achieve an acceptable traffic outcome.

In regard to the existing road standard, I have not driven the road and thus I am not able to provide an opinion. However it is my understanding that it is a gravel road less than 7 metres in width.

It is my understanding that an upgrade to a 7 metre gravel road is proposed to cater for the extraction activity. Capable of passing two way traffic, this is a far safer road environment. Indeed the standard is greater than the Austroads advice (2015) that reference be made to the ARRB Unsealed Roads Manual - Guidelines to Good Practice that recommends a width of 5 metres to 6 metres for demands up to 150 vehicles per day.

In reference to the City's extraction policy I note the reference to Table 3 – Seal Widths and Carriageway Widths for Rural Road (the reference is to a superseded Austroads). The table suggests that no seal is required between 0-75vpd but a width of 7 metres should be provided. Given that the existing road is currently below the rural road standard, the widening to 7 metres for a short term extraction movement of 12 truck per day is a very good outcome.

### Attachment H Traffic Consultant (Riley Consulting) Advice

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As indicated, it should be noted that the Austroads reference stated in the Policy has been superseded and Austroads thresholds now start at 150vpd.

I would not suggest that traffic controls would be required for the level of traffic forecast. However, warning signs in advance of the access and truck route would be highly advisable. A reduced speed limit may also be appropriate, but is subject to approval from Main Roads.

For future policy updates, reference to Austroads Part 3 (Table 4.5 single carriageway rural roads) should be made as Austroads no longer considers unsealed roads. This obviously has knock-on implication for any rural local government as gravel roads no longer meet referenced standards

In an appeal situation, the City's Policy in regard to extractive industries may be given some weight, but is unlikely to be relied upon for the purpose of road upgrades, given it is not commensurate with current Austroads guidelines.

Further, it is my opinion that the proposed extraction (14 vehicles per day) is unlikely to break the Policy threshold of 75 vehicles per day as:

The traffic data for Gibb Road south of Payne Road indicates an average daily flow of 61.6 vehicles per day (vpd), 48.2vpd and 56.5vpd for the 3 weeks of data (55.4 average vehicles per day). However, week 1 is only 6 days (18 Feb to 23 Feb and week 3 is a day and a half 02 / 03 March). Further Friday 29 Feb is a long weekend and thus the data is not representative of normal conditions. The long weekend counts show 61vpd (Fri) and 52vpd (Sat and Sun) compared to 49vpd, 32vpd and 44vpd the previous weekend. I would, therefore be cautious on relying upon these counts as the underlying number would appear to be between 40vpd and 50vpd during the typical weekday when the extraction will occur.

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Busselton Extractive Industries



I note the application states 6 laden trucks per day (12 movements). However, using your Policy I calculate it would be 7, so 14 movement per day based on a 19metre semi (as-of-right)

So based on the evidence, if we assume 50vpd on Gibb Road plus 14vpd from the extraction, the Policy threshold of 75vpd would not be met. Even with the Condition of no more than 20 vehicles per day, the threshold would not be broken. It is noted that a PCU factor is applied by the policy, but the threshold is stated as vehicles per day, not PCU's.

On this basis it is my opinion that if the proponent took this to SAT, it could be concluded that no road upgrade would be deemed required. Further, if the proponent is using as-of-right vehicles then the affected roads could be argued that they should already be capable of accommodating such vehicles. If not, then it could be deemed that the responsibility for upgrade lies solely with the local government.

 More broadly, what standards should be applied to allow haulage at particular volumes on particular kinds of roads (in terms of width, surface and other attributes)

Austroads is probably the only standard that can be realistically applied. Application of MRWA standards is contestable as the roads are NOT controlled by MRWA.

6. Relevance and accuracy of growth factors on traffic counts - is this appropriate or is there a better way?

Growth factors are the normal standard applied. However a rate of 2% per annum is normal. I note your policy applies 5% pa. 2% should be used unless local data indicates the rate is actually higher.

7. Factor of Safety applied to semi movements again is this appropriate or it there a better way?

The roads should be designed and constructed cognisant of the vehicles using them. Thus the as-of-right vehicle is permitted on all

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<u>roads</u>. Larger vehicles have the RAV network and MRWA assess each route.

8. What weighting should be applied to existing traffic movements and their application to the DA. For example should existing movements have further factors of safety applied to semi-trailers?

A standard TIA will review the traffic data and note the level of trucks. There are no additional measures required as the road network is designed and constructed cognisant of the permitted vehicles.

9. Location of traffic counters in comparison to the subject land. What are the most appropriate location for the most accurate assessment.

Straight road sections are best. In regard to a "site" normally adjacent to the site is most common. However, if the road is long with limited access then 100m from the terminating intersection is appropriate.

10.Is there a way of addressing an extractive industry project such as this with the knowledge that after the quarrying has been completed traffic counts will reduce.

There are no guidelines in regard to less permanent development such as an extraction facility. The development would be treated as if it were permanent. However, it is within the ability of the local Government to apply discretion.

There could be a counter argument made in that with growth applied to a road it may meet upgrading thresholds in 5 or 10 years. The question then arises, who is responsible? It also needs to be borne in mind that development is normally the growth. So in the instance of Gibb Road the next 5 years growth could be attributed to developments currently before the City. Traffic may also increase due to unauthorised use of land. In such instances, should the cost of upgrade lie with the proponent of a DA?

11. Traffic counts and upgrades, in particular what would be considered as an appropriate consistent traffic count to be considered in general prior

### Traffic Consultant (Riley Consulting) Advice

Busselton Extractive Industries



to determining whether a road should be sealed. What other factors would then be considered similar to question 2.

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Current traffic data is the most accurate in regard to any DA application. However, the data needs to be collected during school term times and be reflective of normal conditions. In the South West region this is perhaps a little hard due to the seasonal fluctuation in traffic flows due to tourism in the region.

It also needs to be borne in mind that growth may not be relevant to roads accessing an actual quarry (such as a long cul-de-sac).

However, in regard to sealing, Austroads no longer considers unsealed roads (see Q4). Neither do Main Roads as follows:

- ADT is calculated based on Passenger Car Equivalents instead of AADT. The Passenger Car Equivalents (PCEs) for large vehicles shown in Table 4.5.1 are used to convert vehicles / day to PCUs / day.
- Unsealed shoulders are replaced by sealed shoulders. The reason for this is two-fold: (a) sealed shoulders generally have lower maintenance and Whole of Life Cycle Costs, and (b) research has shown that sealed shoulders up to 2.0m wide have a significant reduction effect on run-off-the-road and head-on KSI crashes.

Element		Design (PCUs / Day)								
Element	150 - 500	500 - 1000	1000 - 3000	3000 - 8000						
Traffic Lanes <sup>(1)</sup>	7m (2 x 3.5m)	7m (2 x 3.5m)	7m (2 x 3.5m)	7m (2 x 3.5m)						
Total Shoulder	1m	1.5m	1.5m or 2m	2m or 2.5m						
Minimum Shoulder Seal <sup>(2)(3)(4)(5)</sup>	1m	1.5m	1.5m or 2m	2m or 2.5m						
Wide Centreline	N/A	N/A	None or 1m	None or 1m						
Total Carriageway	9m	10m	11m	12m						

Table 4.5: Single Carriageway Rural Road Widths

However, based on the MRWA table, there appears to be no standard for unsealed roads, but volumes up to 150vpd would appear to be acceptable on un sealed roads.

The danger in relying on the current Austroads is that many rural roads may already be operating way beyond the thresholds, but there are no plans to upgrade. Sadly, the literal application of Austroads may result in many roads needing to be widened. As a result development applications for small tourism development may trigger the need for upgrading, which would render the development unviable.

### Traffic Consultant (Riley Consulting) Advice

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So in terms of the warrants, it need to be carefully considered to ensure the outcomes are fair and reasonable.

12. Anything else you can think of that may assist us with the assessment of this type of DA in the future.

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In my opinion careful updating of the Policy is needed, but a balance needs to be made in regard to passing costs on to DA proponents in one industry but not another.

For a future Policy update I would suggest that the onus of addressing the suitability of larger vehicle routes be placed with the DA proponent. Perhaps a requirement that a "professional traffic engineer" undertakes a route assessment and provides advice in regard to what upgrades, changes or other issues should be addressed as part of the DA. The assessment should cover all local roads used and any intersection with the arterial road network.

Subject headings may include

- Existing road standard and suitability to cater for truck movement
- Visibility along the route for trucks and other road users
- Consideration of adjacent land uses and safety of access.
- Safety of intersections.

#### 25 March 2020

Traffic Consultant (Riley Consulting) Advice

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#### APPENDIX A **GLOSSARY OF TERMS**

Liveable Neighbourhoods Western Australian Planning Commission urban planning policy

framework

As of right vehicle Any vehicle that is not a RAV, commonly known as 'as of

> right' or 'general access vehicle'. For example, rigid trucks up to 12.5 metres and semi trailers19 metres or less in

combination

#### **ACRONYMS**

AustRoads Austroads is the organisation of Australasian road transport and traffic

agencies in Australia and New Zealand. Austroads guides are the primary

reference for traffic and road design.

ARRB Australian Road Research Board

DA **Development Application** 

MRWA -Main Roads Western Australia

PCU Passenger Car Units RAV Restricted Access vehicle State Administrative Tribunal SAT

TIA Traffic Impact Assessment (>100 vehicles in any hour) TIS Traffic Impact Statement (<100 vehicle in any hour)

Vpd Vehicles per day

### 14. ENGINEERING AND WORK SERVICES REPORT

Nil

### 15. COMMUNITY AND COMMERCIAL SERVICES REPORT

Nil

### 16. FINANCE AND CORPORATE SERVICES REPORT

Nil

18.	MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN
	Nil
19.	URGENT BUSINESS
	Nil
20.	CONFIDENTIAL REPORTS
	Nil
21.	CLOSURE
	The Presiding Member closed the meeting at 7.20pm.
	THESE MINUTES CONSISTING OF PAGES 1 TO 299 WERE CONFIRMED AS A TRUE AND
	CORRECT RECORD ON
	DATE: PRESIDING MEMBER: