

Ordinary Council Meeting

26 September 2018

Minutes



Members of the public who attend Council meetings should not act immediately on anything they hear at the meetings, without first seeking clarification of Council's position. Persons are advised to wait for written advice from the Council prior to taking action on any matter that they may have before Council.

Agendas and Minutes are available on the City's website www.kwinana.wa.gov.au

Vision Statement

Kwinana 2030

***Rich in spirit, alive with opportunities,
surrounded by nature – it's all here!***

Mission

**Strengthen community spirit, lead
exciting growth, respect the environment
- create great places to live.**



We will do this by –

- providing strong leadership in the community;
- promoting an innovative and integrated approach;
- being accountable and transparent in our actions;
- being efficient and effective with our resources;
- using industry leading methods and technology wherever possible;
- making informed decisions, after considering all available information; and
- providing the best possible customer service.

Values

We will demonstrate and be defined by our core values, which are:

- Lead from where you stand – Leadership is within us all.
- Act with compassion – Show that you care.
- Make it fun – Seize the opportunity to have fun.
- Stand Strong, stand true – Have the courage to do what is right.
- Trust and be trusted – Value the message, value the messenger.
- Why not yes? – Ideas can grow with a yes.

TABLE OF CONTENTS

1	Declaration of Opening:	5
2	Prayer:.....	5
3	Apologies/Leave(s) of Absence (previously approved)	5
4	Public Question Time:	6
4.1	Mr Kevin Desmond, Parmelia	6
5	Applications for Leave of Absence:	12
6	Declarations of Interest by Members and City Officers:	12
7	Community Submissions:.....	12
8	Minutes to be Confirmed:.....	12
8.1	Ordinary Meeting of Council held on 12 September 2018:.....	12
9	Referred Standing / Occasional / Management /Committee Meeting Reports:	13
10	Petitions:.....	13
11	Notices of Motion:.....	14
11.1	Officer Report to accompany Notice of Motion requesting that the City of Kwinana consider the implementation of a three bin system.....	14
12	Reports – Community.....	19
13	Reports – Economic	19
14	Reports – Natural Environment	20
14.1	The City of Kwinana Integrated Strategic Mosquito and Midge Management Plan	20
15	Reports – Built Infrastructure	25
15.1	Adoption of Amended Local Development Plan – Stage 8, Sunrise Estate Wellard	25
15.2	Adoption of Amended Local Development Plan No. 5 – Stages 3-5 Honeywood Rise Estate, Wandi	29
16	Reports – Civic Leadership.....	35
16.1	Review of Council Policy – Local Employment Solutions	35
16.2	Accounts for payment for the month ended 31 August 2018	38
16.3	Budget Variations	41
16.4	Monthly Financial Report July 2018.....	44
17	Urgent Business.....	47
18	Councillor Reports.....	47
18.1	Councillor Sandra Lee	47
18.2	Councillor Matthew Rowse	47
19	Response to Previous Questions.....	48
19.1	Mr Kevin Desmond, Parmelia	48
20	Mayoral Announcements (without discussion)	51
21	Matters Behind Closed Doors.....	52

21.1	Request for consent to declaration of Trust , City of Kwinana Waste Supply Agreement.....	52
22	Meeting Closure	54

Present:

MAYOR CAROL ADAMS
 DEPUTY MAYOR P FEASEY
 CR W COOPER
 CR M KEARNEY
 CR S LEE
 CR S MILLS
 CR M ROWSE
 CR D WOOD

MRS M COOKE	-	Acting Chief Executive Officer
MS C MIHOVILOVICH	-	Director City Strategy
MRS B POWELL	-	Director City Living
MR N SCIDONE	-	Acting Director City Infrastructure
MS M BELL	-	Director City Legal
MR D MONTEIRO	-	Manager Environmental Health
MR T HOSSEN	-	Lawyer
MS A MCKENZIE	-	Council Administration Officer

Members of the Press	0
Members of the Public	1

1 Declaration of Opening:

Presiding Member declared the meeting open at 7:00pm and welcomed Councillors, City Officers and gallery in attendance and read the Welcome.

“IT GIVES ME GREAT PLEASURE TO WELCOME YOU ALL HERE AND BEFORE COMMENCING THE PROCEEDINGS, I WOULD LIKE TO ACKNOWLEDGE THAT WE COME TOGETHER TONIGHT ON THE TRADITIONAL LAND OF THE NOONGAR PEOPLE”

2 Prayer:

Councillor Wendy Cooper read the Prayer

“OH LORD WE PRAY FOR GUIDANCE IN OUR MEETING. PLEASE GRANT US WISDOM AND TOLERANCE IN DEBATE THAT WE MAY WORK TO THE BEST INTERESTS OF OUR PEOPLE AND TO THY WILL. AMEN”

3 Apologies/Leave(s) of Absence (previously approved)**Apologies**

Nil

Leave(s) of Absence (previously approved):

Nil

4 Public Question Time:

4.1 Mr Kevin Desmond, Parmelia

Question 1

My first question is regarding that matter behind closed doors, can you tell me what it refers to?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer advised that the matter behind closed doors is a request for consent by Project Co to declare a trust over its assets by creating a trust deed which is in accordance with the City of Kwinana Waste Supply Agreement.

Question 2

What does that exactly mean?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer explained that it is basically a request for the City to consent to allow Project Co to declare a trust over its assets and because the City of Kwinana Waste Supply Agreement is part of its assets it requires the City of Kwinana's consent. This is part of Project Co reaching financial close.

Question 3

What is the Trust agreement?

Response

The Mayor advised that as the matter is Behind Closed Doors that the matter could not be answered at the moment.

Mr Desmond stated that it is not clear what the trust is and that normally it is to do with beneficial owners or two owners of something. Mr Desmond added that he thinks it is in the public interest that he be advised exactly what the trust is about. Mr Desmond stated it is not to be held Behind Closed Doors, that the Council should be telling the public what this means and what the City of Kwinana are being asked to sign up for.

The Mayor further advised that the item is a legal matter held behind closed doors and referred the question to the City's Lawyer.

The City's Lawyer advised that essentially to answer that vast comment by Mr Desmond, the matter that is before Council is more a continuation of an agreement that was signed many years ago and this is the last step for Project Co to finalise what they agreed to and what the City agreed to in 2013, with the original Waste Supply Agreement.

Question 4

At the last Council meeting I attended, it went Behind Closed Doors to give Phoenix Energy an extension, and I understand that the extension ended at the end of September 2018, so have Phoenix Energy signed off on their finances now?

Response

The Mayor advised that Phoenix Energy have until the end of September 2018.

4 PUBLIC QUESTION TIME

Question 5

Mr Desmond stated he knows how long they have got, have they signed off yet?

Response

The Mayor stated that she has not been advised.

Question 6

Is the Mayor going to vote on this matter? As the Mayor has always declared an interest in this matter will she leave the room or will she be staying in the room?

Response

The Mayor advised that she would be declaring an indirect financial interest in the matter.

Question 7

What is the financial interest in this matter?

Response

The Mayor explained that Phoenix Energy are a Junior Member of the Kwinana Industries Council (KIC), which is her husband's employer.

Mr Desmond asked if Mr Dyson is yours and your husband's friend?

The Mayor confirmed that it is correct.

Question 8

Have you found out if your husband has financial interest in Phoenix Energy? Or any associated companies of Mr Dysons?

Response

The Mayor advised that she will not be answering that question.

Question 9

Do you and your husband share a family trust?

Response

The Mayor advised that she will not be answering that question.

Mr Desmond stated that you have actually declared it and it is actually on your paperwork that you and your husband share a family trust.

The Mayor asked Mr Desmond why he is asking a question that he already knows the answer to.

Mr Desmond stated that he likes it put on the record.

Mr Desmond advised that he believes that the Mayor should not stay in the room, previously you have left the room.

The Mayor advised Mr Desmond that she would be leaving the room as she is declaring an indirect financial interest.

4 PUBLIC QUESTION TIME

Question 10

So when the matter came up for the extension of their time to get their finances, Phoenix Energy, did you leave the room?

Response

The Mayor advised that she could not recall and that she would have to check the minutes.

Mr Desmond said you never, that he could tell you that as a fact.

Question 11

Why do you leave the room this time? But you never left last time.

Response

The Mayor advised she will be declaring an indirect financial interest and will be leaving the room.

Question 12

Regarding Councillor Rowse's request about the 3 bin system, can you tell me the last time a Council Officer went to the City of Bunbury and inspected their waste facilities?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised that the City Officers have been to the City of Bunbury and looked at their waste facilities and the way they processed materials there.

Question 13

How long ago?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised that he did not know exactly but it would have been between six to nine months ago.

Question 14

In your report you talk about nappies, so have they got a problem with nappies?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised that nappies were found in the FOGO materials until they were separated from the final compost.

Question 15

They choose to have nappies to go through?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised that nappies were a source of contamination.

4 PUBLIC QUESTION TIME

Question 16

Does the City of Kwinana ever have nappies go through the yellow recycling bin?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised yes they do.

Mr Desmond stated in actual fact that is the red herring isn't it.

The Manager Environmental Health explained that nappies in recycling are easier to separate at the materials recovery facility. When it comes to nappies in FOGO it is a lot harder to remove and may affect the quality of the compost.

Question 17

So if the City of Kwinana go to a 3 bin system, could you say no nappies in the waste?, is that correct?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised yes that would be an option.

Question 18

Have you inspected the composting facilities at the City of Cockburn?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised no.

Question 19

Isn't that one of the newest facilities in Perth?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised that he hasn't visited the facility in Cockburn as the motion was in relation to a FOGO bin and to his knowledge the Cockburn facility did not process food organics.

Mr Desmond stated just green material, that you can have a 3 bin system with just green material rather than food.

Question 20

If the City of Kwinana was going to have a 3 bin system, we could say we are just going to have green waste in the extra bin?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised yes.

4 PUBLIC QUESTION TIME

Question 21

There is an alternative, it isn't a case of a two bin or a three bin with FOGO, it can actually be a two bin and a three bin that is actually green waste, is that correct?

Response

The Mayor referred the question to the Manager Environmental Health.

The Manager Environmental Health advised yes, if a local government chose to.

Question 22

There are costings on your report, how were these costings arrived at?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer advised that costings that were presented within the report essentially come from the Waste Management Strategy, which was prepared by a consultant and adopted by Council in 2017.

Question 23

While the visit to Bunbury went on, was a question asked for their costs on the 3 bin system?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer explained that the consultants did the analysis based on their own calculations, now what they considered as part of that, whether they considered Bunbury at the time I cannot answer.

Question 24

So this information is two years old?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer confirmed the report is two years old.

Question 25

In the two years has there been any development in waste technology to your knowledge?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer advised that she is sure there has been.

Question 26

Why aren't you taking that into consideration?

4 PUBLIC QUESTION TIME

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer advised that the Notice of Motion report officer recommendation outlines that in order to undertake a review to consider a 3 bin FOGO system for the City of Kwinana, the City would need to review the Waste Management Strategy and as a result look at all the figures and all of the latest technology to really assess the various options including, as Mr Desmond pointed out the GO option as well. The Acting Chief Executive Officer further advised that it is identified in the report as necessary to determine whether a FOGO option is worthy of consideration.

Question 27

So is it the option of the City Officers that having a new report would be a good thing?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer advised that in the opinion of the City Officers the recommendation is that the Waste Management Strategy be reviewed in the 2020/2021 Budget year or if legislation changes before this time in order for the City to meet its legislative requirements. The Acting Chief Executive Officer further advised that the officers recommendation for a review of the strategy is based on the time when the City's waste collection service contract is near review and the Waste to Energy project has progressed.

Mr Desmond stated that there is no guarantee that the Waste Management Project is going ahead.

The Acting Chief Executive Officer advised that all of the documentation relating to that particular project from the City's point of view has been signed off and that Phoenix Energy has until the end of this month to reach financial closure.

Question 28

So the contract is not valid until they get financial closure, is that correct?

Response

The Mayor referred the question to the Acting Chief Executive Officer.

The Acting Chief Executive Officer advised that is not correct, that the contract is still valid.

Question 29

It is valid at the moment, if they do not get financial closure by the end of September does that make the contract null and void?

Response

The Mayor referred the question to the City's Lawyer.

The City's Lawyer advised that the contract would not automatically become null and void if they do not receive financial close.

5 Applications for Leave of Absence:

Nil

6 Declarations of Interest by Members and City Officers:

Mayor Carol Adams declared an impartiality interest in item 16.2, Accounts for payment for the month ended 31 August 2018, as two of the payments have been made to her husband's employer.

Mayor Carol Adams declared an indirect financial interest in item 21.1, Request for consent to declaration of Trust, City of Kwinana Waste Supply Agreement, due to the company being a junior member of her husband's employer, Kwinana Industries Council (KIC). Mayor Carol Adams also declared an impartiality interest in item 21.1, Request for consent to declaration of Trust, City of Kwinana Waste Supply Agreement, due to one of the Directors being a close friend.

NOTE – Council resolution 292, minutes to be confirmed for the Ordinary Council Meeting held on 26 September 2018 at the Ordinary Council Meeting held on 10 October 2018, noted that: The Mayor incorrectly declared that she had an indirect financial interest in Item 21.1, Request for consent to declaration of Trust, City of Kwinana Waste Supply Agreement and vacated the Council Chambers.

The Mayor does not have an indirect financial interest to disclose and would like a notation to that effect made on the minute record. The Mayor did however correctly declare an impartiality interest arising out of a friendship with the proponent.

7 Community Submissions:

Nil

8 Minutes to be Confirmed:

8.1 Ordinary Meeting of Council held on 12 September 2018:

COUNCIL DECISION

279

MOVED CR S MILLS

SECONDED CR S LEE

That the Minutes of the Ordinary Meeting of Council held on 12 September 2018 be confirmed as a true and correct record of the meeting.

CARRIED
8/0

9 Referred Standing / Occasional / Management /Committee Meeting Reports:

Nil

10 Petitions:

Nil

11 Notices of Motion:

11.1 Officer Report to accompany Notice of Motion requesting that the City of Kwinana consider the implementation of a three bin system

DECLARATION OF INTEREST:

There were no declarations of interest declared.

SUMMARY:

Councillor Rowse has given notice in writing to the Chief Executive Officer and presented the Notice of Motion to Council at the 12 September 2018 Ordinary Council Meeting, which states:

That Council directs the CEO to prepare a report detailing the benefits of, and cost implications involved with, implementing a 3-Bin Food Organics, Garden Organics (FOGO) waste collection system in line with best practice and the WA State Government's 'Better Bins' program throughout all households in the City of Kwinana Local Government District and to present the report to Council.

BACKGROUND:

City of Kwinana Waste Management Strategy

In 2016, the City of Kwinana appointed MRA Consulting to assess a number of waste management options available to the City and recommend the most appropriate way forward having regard to the environmental, economic, social and legislative context. In particular, the focus was on developing and implementing changes to the City of Kwinana waste collection and waste management services in order to achieve the 65% diversion from landfill set by the *West Australian Resource Recovery Act* (WARR 2007). On 8 March 2017 Council adopted a Waste Management Strategy for the City (See Attachment A) to assist with this objective. In developing the strategy, MRA Consulting Group assessed existing and proposed alternative waste disposal options. They examined four options: (1) Business as Usual; (2) Energy from Waste; (3) Green Organics Three Bin system (GO); and (4) Food Organics Green Organics (FOGO) and kitchen caddy Three Bin system.

Utilising a multi criteria analysis in combination with MRA's Consolidated Cost Model (see Table below), MRA Consulting Group concluded that the energy from waste option (with the 2 bin system) is the most viable waste disposal service to be adopted by the City of Kwinana. In line with this conclusion, it should be noted that the City had already agreed to supply the Kwinana WTE Project Co Pty Ltd with domestic general waste when the project is operational. The Waste Management Strategy outlines Kwinana's situation at this time with regard to waste collection and disposal services, its aspirations with regard to future service delivery in this area, and an implementation pathway to achieve the required diversion rate by the target date, as per the requirements stipulated under the WARR Act 2007. Officers have been progressively implementing the actions as outlined by the adopted Waste Management Strategy. This has included a review of the Bulk Waste Collection, the Charity Bins Policy, a Revised Waste Services Contract that builds in options should they be required to enable the City to respond to any change in legislative requirements and an increasing community education focus on composting and worm farms.

11.1 OFFICER REPORT TO ACCOMPANY NOTICE OF MOTION REQUESTING THAT THE CITY OF KWINANA CONSIDER THE IMPLEMENTATION OF A THREE BIN SYSTEM

Table 16 Multi criteria analysis results incl. sensitivity analysis

Criteria			Option				
			1	2	3	4	Sensitivity Analysis
			2 Bin BAU	2 Bin EfW	Fortnightly GO	Weekly FOGO	3 bin FOGO (EfW)
Economic	Net Present Value (\$)	30%	\$42.08	\$41.25	\$44.58	\$45.23	\$45.04
	Weighted score (%)	30%	30%	30%	8%	8%	8%
Environmental	Diversion	25%	25%	85%	42%	55%	85%
	Emissions	5%	20,184	3,724	16,193	12,174	3,765
	Vehicle Kilometres Travelled (km)	5%	96,506	99,626	147,700	144,200	146,545
	Weighted score (%)	35%	13%	35%	15%	23%	31%
Governance	Integration with existing services	10%	4	4	3	1	1
	Weighted score (%)	10%	10%	10%	8%	3%	3%
Governance	Best practice governance	10%	1	2	3	4	4
	Weighted score (%)	10%	3%	5%	8%	10%	10%
Social	Community education	15%	4	4	3	2	2
	Weighted score (%)	15%	15%	15%	11%	8%	8%
Total Score (%)		100%	70%	95%	49%	50%	59%

This report cost the City \$45,000 plus GST to complete, and was considered and ultimately adopted by the Council.

What do we know about FOGO?

Introducing a FOGO service to the City effectively introduces a third bin into the waste service provided to the community to support the collection of Food Organics and Green Organics. The objective of this third bin is essentially to reduce the amount of rubbish sent to landfill and reduce the need for bulk kerbside collections of greenwaste.

There are no local governments within the Perth Metropolitan area that have adopted an ongoing FOGO service. Some local governments, such as the City of Rockingham have implemented a GO service, but none have implemented a FOGO service. The City of Melville has recently completed a FOGO trial. Whilst the trial achieved significant waste diversion for the trial areas, it is understood that the City employed significant resources to support the initiative, including the use of SMRC resources.

11.1 OFFICER REPORT TO ACCOMPANY NOTICE OF MOTION REQUESTING THAT THE CITY OF KWINANA CONSIDER THE IMPLEMENTATION OF A THREE BIN SYSTEM

In terms of regional councils, the Bunbury Harvey Regional Council has been composting FOGO waste since 2013 when the City of Bunbury first introduced the service to its residents. With the help of the FOGO system, more than 60 per cent of Bunbury's kerbside waste has been diverted from landfill. These results have prompted the surrounding Shires of Capel, Collie and Donnybrook-Balingup to also implement FOGO kerbside collections. These Shires that have introduced a FOGO kerbside collection are now meeting the 2020 waste diversion target set by the Waste Authority for Regional Areas, diverting more than 50 per cent of kerbside waste. The BHRC runs its own composting facility and highlights contamination of the material as an ongoing challenge. City Officers who have attended the facility reported high levels of contamination such as nappies were visibly evident in the composted material.

CONSIDERATION OF THE NOTICE OF MOTION

The Notice of Motion directs the CEO to prepare a report detailing the benefits of, and cost implications involved with, implementing a 3-Bin FOGO waste collection system. Should Council determine to support the Notice of Motion and direct that a report is prepared, it is incumbent on City Officers to ensure that Elected Members are provided with a comprehensive response to ensure that Council is provided with all the information necessary to make an informed decision.

The City's current Waste Management Strategy required subject matter experts to be engaged to conduct the detailed multi-criteria analysis and consolidated cost modelling (See Confidential Attachment B) necessary for Council to make an informed decision as to the best waste management option.

As such, City Officers are of the view that given the social, environmental, financial, legal, risk and public health considerations associated with implementing a three-bin waste collection system, that external subject matter experts should be engaged to review the City's Waste Management Strategy and provide Council with detailed analysis of the range of waste management options available.

Council essentially has two options:

- Option 1: Support the Notice of Motion; or
- Option 2: Not support the Notice of Motion

Option 1 - Support the Notice of Motion

If Council support the general intent of the Notice of Motion then it is recommended that the following amended motion is considered.

That Council:

- A. Directs the CEO to engage external consultants to prepare a review of the City of Kwinana Waste Management Strategy and to present the report to Council. The report is to include a comparative cost benefit analysis of waste management options including the 3 Bin FOGO system and waste to energy.
- B. Transfer \$50,000 from the Refuse Reserve to 400434.1600 Main Stream Waste Projects – Waste Management Consultancy to undertake a review of the City of Kwinana Waste Management Strategy.

NOTE – AN ABSOLUTE MAJORITY OF COUNCIL IS REQUIRED

11.1 OFFICER REPORT TO ACCOMPANY NOTICE OF MOTION REQUESTING THAT THE CITY OF KWINANA CONSIDER THE IMPLEMENTATION OF A THREE BIN SYSTEM**Option 2 - Not support the Notice of Motion**

The City of Kwinana Waste Management Strategy was adopted eighteen months ago in March 2017. The City has recently entered into a waste collection and disposal contract with Suez for a four year term until July 2022 with a one year option. The City has also signed a waste supply agreement with Phoenix Energy to supply waste to the Kwinana Waste to Energy Project. It is expected that the Project will reach financial close at the end of September 2018 with the plant expected to be built by September 2021. Given the currency of the existing Waste Management Strategy and the existing contractual arrangements that are in place, it would be prudent for Council to require a review of the City's Waste Management Strategy in 2020/2021. A review in 2020/2021 would coincide with the expected completion of the waste to energy plant, and the Suez waste collection and disposal contract would have only one year left to run.

In order to explain the City's current position, it would also be recommended to initiate a public information campaign to explain the waste management options that the City is implementing and why.

If Council did not wish to support the Notice of Motion, the following motion could be considered in order to provide clarity and certainty to staff and the community.

That Council:

- A. Directs that a review of the City's Waste Management Strategy be identified in the Long Term Financial Plan for 2020/2021
- B. Directs that a public information campaign be conducted as soon as practicable to explain the City's Waste Management Strategy and the waste management options that the City is implementing and why.

OFFICER RECOMMENDATION:

That Council:

- A. Directs that a review of the City's Waste Management Strategy be identified in the Long Term Financial Plan for 2020/2021.
- B. Directs that a public information campaign be conducted as soon as practicable to explain the City's Waste Management Strategy and the waste management options that the City is implementing and why.

AMENDED COUNCIL RECOMMENDATION

COUNCIL DECISION
MOVED CR M ROWSE

SECONDED CR M KEARNEY

That Council

- A. Directs that a review of the City's Waste Management Strategy be identified in the Long Term Financial Plan for 2020/2021.
- B. Directs that a public information campaign be conducted as soon as practicable to explain the City's Waste Management Strategy and the waste management options that the City is implementing and why.

11.1 OFFICER REPORT TO ACCOMPANY NOTICE OF MOTION REQUESTING THAT THE CITY OF KWINANA CONSIDER THE IMPLEMENTATION OF A THREE BIN SYSTEM

- C. Directs that the review of the Bulk Waste Service, due to commence in late 2019, consider the provision of a once a year skip bin on request and other options in lieu of the current two bulk waste collections.
- D. Considers as part of the 2019/2020 Budget deliberations, a 3 bin FOGO trial on 200 households, to assess its merits or otherwise and have the social, environmental, financial, legal, risk and public health impacts included as part of a review of the City's Waste Management Strategy to be identified in the Long Term Financial plan for 2020/2021.

NOTE – That the officer recommendation has been amended to include points c and d.

LOST
4/5

Mayor Carol Adams cast second vote as the vote was equally divided

AMENDED COUNCIL RECOMMENDATION

COUNCIL DECISION
MOVED CR M ROWSE

SECONDED CR M KEARNEY

That Council:

- A. Directs that a review of the City's Waste Management Strategy be identified in the Long Term Financial Plan for 2020/2021
- B. Directs that a public information campaign be conducted as soon as practicable to explain the City's Waste Management Strategy and the waste management options that the City is implementing and why.
- C. Directs that the review of the Bulk Waste Service, due to commence in late 2019, consider the provision of a once a year skip bin on request and other options in lieu of the current two bulk waste collections.

LOST
4/5

Mayor Carol Adams cast second vote as the vote was equally divided

COUNCIL DECISION
280
MOVED CR M ROWSE

SECONDED CR M KEARNEY

That Council:

- A. Directs that a review of the City's Waste Management Strategy be identified in the Long Term Financial Plan for 2020/2021
- B. Directs that a public information campaign be conducted as soon as practicable to explain the City's Waste Management Strategy and the waste management options that the City is implementing and why.

CARRIED
7/1



City of Kwinana Waste Management Strategy

20/02/2017



Mike Ritchie & Associates Pty Ltd trading as MRA Consulting Group

ABN: 13 143 273 812

Suite 409, Henry Lawson Building

19 Roseby Street

DRUMMOYNE NSW 2047

AUSTRALIA

Phone: +61 408 663 942

Email: info@mraconsulting.com.au

www.mraconsulting.com.au

Author:	James Moverley, Dimitris Dimoliatis
Checker:	Dimitris Dimoliatis, Mike Ritchie
Approver:	Dimitris Dimoliatis

Document History

Title	Version Number	Status	Date
Waste Management Strategy	1	Draft	09/12/2016
Waste Management Strategy	2	Draft	19/12/2016
City of Kwinana Waste Management Strategy	3	Draft Final	16/01/2017
City of Kwinana Waste Management Strategy	4	Draft Final v2.1	14/02/2017
City of Kwinana Waste Management Strategy	5	Draft Final v3	20/02/2017

Disclaimer

This report has been prepared by Mike Ritchie and Associates (trading as MRA Consulting Group (MRA)) for the City of Kwinana in accordance with the terms and conditions of appointment. MRA (ABN 13 143 273 812) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.

Strategy at a glance

Where are we today?

The City of Kwinana (Kwinana) is home to an estimated population of 37,149 residents. Kwinana currently offers a kerbside garbage and comingled recycling collection service to residential properties. Garbage is collected weekly and transported directly to Millar Road landfill. Comingled recycling is collected fortnightly and processed through a Materials Recovery Facility (MRF). Kwinana also offers bi-annual hard waste and white goods collections and a quarterly green waste collection.

Kwinana wishes to improve on its current operations through the development and implementation of a comprehensive Waste Management Strategy (Strategy). To establish a detailed understanding of current operations, desktop analysis and site stakeholder consultation was conducted.

Where do we want to get to?

Kwinana wishes to achieve a planned and collaborative approach to waste management, which is cost effective, supportive of the local community and economy and improves resource recovery in line with State diversion targets. Key aims include:

1. Implementing best practice disposal and recovery options for the delivery of kerbside waste and recycling services;
2. Educating the community to ensure positive waste separation behaviour change occurs;
3. Implement an efficient, clean and cost effective bulky waste collection service; and
4. Prevent and best manage litter and illegal dumping in the region through efficient placement of public place bins.

The Strategy will inform the waste collection and processing tender specifications employed by Kwinana to ensure that subcontractors achieve best practice at each facility.

How will we get there?

Following the Multi Criteria Analysis (MCA) of several waste management options and based on Kwinana's priorities, the preferred kerbside system for achieving Kwinana's goals is a 2 bin system as follows:

- Residual waste (incl. processing residuals) to Energy from Waste (EfW); and
- Comingled recycling to MRF.

The key advantages are that:

- The diversion of material from landfill is maximised by EfW; and
- This option is compatible with Kwinana's commitment to supply waste tonnes to the Phoenix EfW.

However, Kwinana acknowledges that a different method for the final disposal of residual waste might be required as a result of external factors. The WA government does not currently have a formal EfW policy. Therefore, if the state government decides to implement a policy for source separation to be maximised prior to the use of EfW, as other states have, Kwinana would need to pursue a different waste management system. Although further research would be carried out at the time, it is envisaged that in such a case Kwinana would employ a 3 bin FOGO system with residual garbage being supplied to the Phoenix EfW. The key advantages of this option would be:

- Option is compatible with Kwinana's commitment to supply waste tonnes to the Phoenix EfW;
- Maximisation of source separation at the household level; and
- Safe option from a policy perspective as only residuals are incinerated.

How will the strategy be implemented?

In order to deliver best practice waste management and resource recovery services for residents, Kwinana will implement the Strategy following a staged process where each task is based on previous actions and forms the basis for subsequent work.

Table 1 Summary of recommended actions

Recommended actions	
1	Strategy actions
A	Review draft strategy findings and actions.
B	Seek clarification on government policy regarding 3 bin v 2 bin EfW – Waste Authority v Premier.
C	Finalise strategy findings and actions.
D	Adopt strategy findings and actions.
2	Contract actions
A	Conduct a full review of waste management contracts.
B	Seek short term contracts for processing of waste and recyclables to remain flexible in view of the uncertainty regarding the effect of the CDL, Phoenix EfW and future regional arrangements..
C	Use the Strategy to guide the tender specifications for renewal, particularly surrounding recycling contamination and compaction density.
D	Maintain current scope for compliant recyclables (e.g. allow soft plastics).
E	Explore the possibility to alter scope for hard waste collection to be \$/item.
F	Go to tender for kerbside and hard waste collection.
G	Engage contractor(s) to deliver waste services for Kwinana.
H	Consider using NSW model contracts to reduce cost and risk after implementation of CDL.
3	Infrastructure actions
A	Seek update from Phoenix regarding facility opening.
B	Perform a trial with only a percentage of all MSW going to Phoenix.
C	Increase proportion of MSW incrementally until 100% of MSW is going direct to Phoenix.
4	Collection actions (dependent on state government policy)
A	Perform a 3 bin FOGO trial on 200 households.
B	Implement 3 bin FOGO collection system across all households (if 2 bin EfW is restricted).
5	Education/Engagement actions
A	Develop a comprehensive resident behaviour change program aiming to improve recycling and waste management, through development of Recycle Right or similar model.
B	Continue Recycle Right or similar model campaign.
6	Other actions
A	Make 360L recycling bins available.
B	Promote the use of home composting bins/worm farms.
C	Investigate options to participate in the ERF.

Glossary

Abbreviation	Definition
ABS	Australian Bureau of Statistics
ACCUs	Australian Carbon Credit Units
AD	Anaerobic Digestion
AWT	Advanced Waste Technology
CDL	Container Deposit Legislation
CCM	Consolidated Cost Model
C&D	Construction and Demolition (waste)
C&I	Commercial and Industrial (waste)
EfW	Energy from Waste
EMRC	Eastern Metropolitan Regional Council
EPA	Environmental Protection Authority
ERF	Emissions Reduction Fund
EU	European Union
FOGO	Food organics and garden organics
GHG	Greenhouse Gas Emissions
GO	Garden organics
GWP	Green Waste Processing
Kwinana	City of Kwinana
LGA	Local Government Area
MBT	Mechanical Biological Treatment
MCA	Multi criteria analysis
MGB	Mobile Garbage Bin
MHIEC	Mitsubishi Heavy Industries Environmental & Chemical Engineering
MOU	Memorandum of Understanding
MRA	MRA Consulting Group
MRF	Materials Recovery Facility
MSW	Municipal Solid Waste
MUD	Multi-unit dwelling
NACRO	National Association of Charitable Recycling Organisations
NTCRS	National Television and Computer Recycling Scheme
Phoenix	Phoenix Energy
PMET	Pittsburgh Mineral & Environmental Technology
RET	Renewable Emissions Target
RRC	Rivers Regional Council
RRRC	Regional Resource Recovery Centre
SA	South Australia
SMRC	Southern Metropolitan Regional Council
WA	Western Australia
WCF	Waste Composting Facility
WHS	Work Health and Safety
Wk	Weekly

Contents

Strategy at a glance	iii
Where are we today?	iii
Where do we want to get to?	iii
How will we get there?	iii
How will the strategy be implemented?	iv
Glossary	v
Contents	vi
1. Where are we today?	1
1.1 Demographics and geography	1
1.2 Southern Metropolitan Regional Council	2
1.3 Regional waste facilities and services	2
1.3.1 Current waste facilities used by Kwinana	2
1.3.2 Waste infrastructure within Southern Perth	3
1.3.2.1 Existing waste infrastructure within Kwinana	4
1.3.3 Future waste infrastructure within Kwinana	4
1.3.4 Commitment to the Phoenix facility	5
1.4 Resident waste management behaviour	5
1.5 Contract management	5
1.5.1 Recycling contract	5
2. Where do we want to get to?	7
2.1 Vision	7
2.2 Waste streams and technologies	7
2.3 Kwinana guiding principles	9
2.4 State targets	9
2.5 Relevant documentation	9
2.6 The Emissions Reduction Fund	10
2.7 Resident waste management behaviour	10
2.7.1 Community consultation feedback	11
2.8 Contract management	11
2.8.1 Recycling contract	11
3. How will we get there?	13
3.1 Kerbside options	13

3.2 Recycling contract management	13
3.3 Waste education	14
3.4 3 bin FOGO trial	14
3.5 Further waste management considerations	15
4. How will the strategy be implemented?	22
References	24

List of Tables

Table 1 Summary of recommended actions	iv
Table 2 Kwinana kerbside collection and processing contracts	5
Table 3 Best practice disposal and recovery options as applying to Kwinana	8
Table 4 Western Australia Waste Strategy diversion targets.....	9
Table 5 Data review summary.....	9
Table 6 Further waste management considerations.....	15
Table 7 Summary of recommended actions	22

List of Figures

Figure 1 City of Kwinana population trend based on estimated resident population (ABS, 2015).....	1
Figure 3 Waste management infrastructure in relation to regional council boundaries.....	3
Figure 4 Relative risks associated with various forms of AWT (Source: MRA, 2016)	7

1. Where are we today?

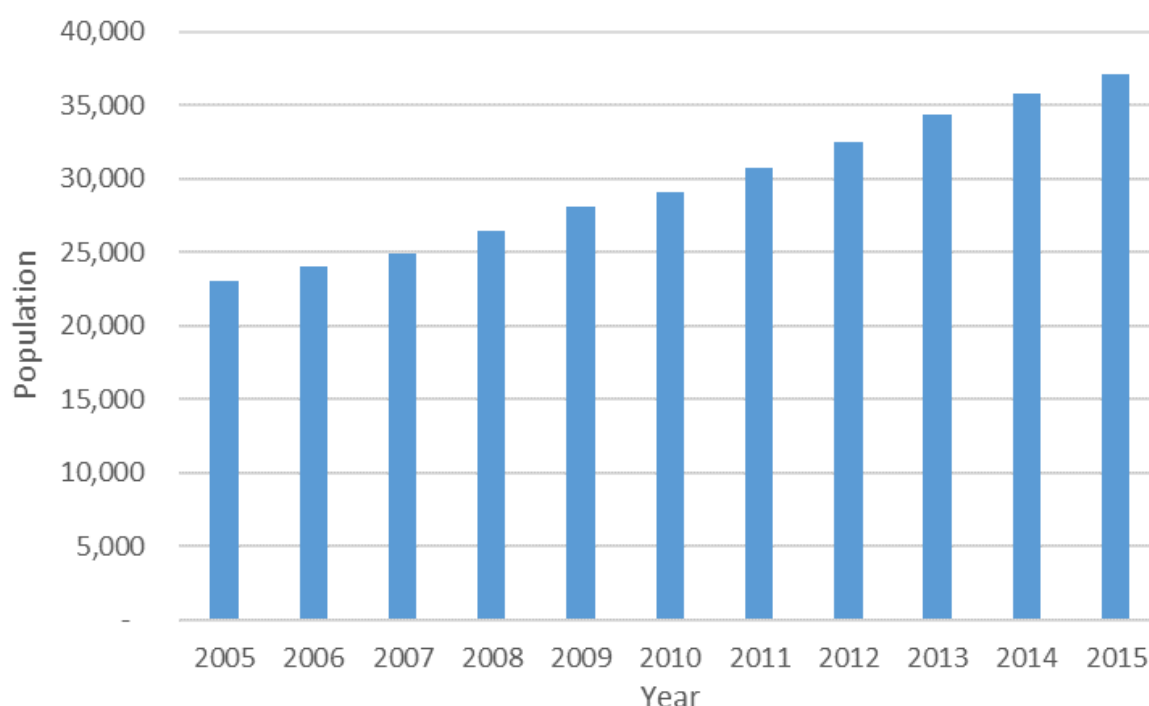
1.1 Demographics and geography

The City of Kwinana (Kwinana) is a Local Government Area (LGA) covering approximately 120 square kilometres of the southern part of metropolitan Perth.

The Australian Bureau of Statistics (ABS) estimated the LGA’s resident population at 37,149 in 2015, an increase of more than 10,000 people since 2005 (Figure 1).

The highest percentage of residents are aged 0-14 years (22.5%) followed by residents aged 25-34 years (18.6%). The percentage of population between the ages of 15-24, 35-44 & 45-54 is relatively evenly spread at around 11-15% for each age bracket (ABS, 2012).

Figure 1 City of Kwinana population trend based on estimated resident population (ABS, 2015)



The 2011 Australian census indicated that there were 10,646 households in Kwinana, most of which are family households (31.7%).

Based on 2011 ABS Census data, the main employing industry is manufacturing (13.4%). Technicians and trade workers make up the biggest group of employees (17.1%), while 15.3% are employed as labourers and 13.2% as clerical and administrative workers. In terms of employment by age, wage and salary earners aged between 25-34 make up the majority of the workforce (29%), with wage and salary earners aged between 35-44 years making up 23.1%.

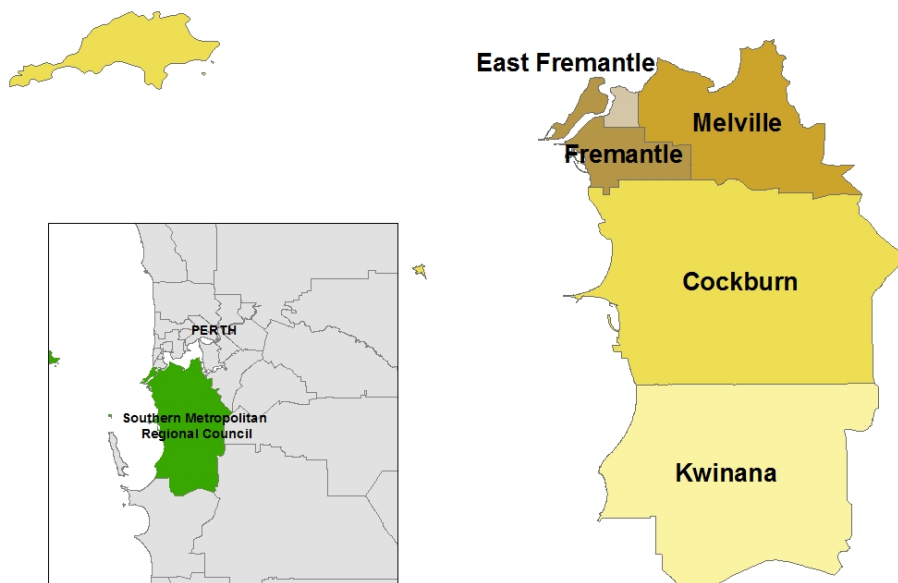
In 2016, waste collection services were provided to 14,888 households across Kwinana.

1.2 Southern Metropolitan Regional Council

Kwinana is a member of the Southern Metropolitan Regional Council (SMRC). The SMRC is a statutory LGA covering 340 square kilometres of the Southern Part of Metropolitan Perth (Figure 2) combined population of over 275,000 people. The other LGA's that are members of the SMRC are:

- City of Cockburn;
- Town of East Fremantle;
- City of Fremantle;
- and
- City of Melville.

Figure 2 SMRC member councils



1.3 Regional waste facilities and services

The greater Perth area encompasses a number of waste management facilities while a number of them are located within or in close proximity to Kwinana LGA (Figure 3).

1.3.1 Current waste facilities used by Kwinana

Millar Road Landfill

Kwinana disposes all its residual waste at Millar Road landfill. The City of Rockingham operates the Millar Road Landfill facility at Millar Rd West, Baldivis. The facility incorporates a landfill, transfer station, recycling centre and a waste education centre.

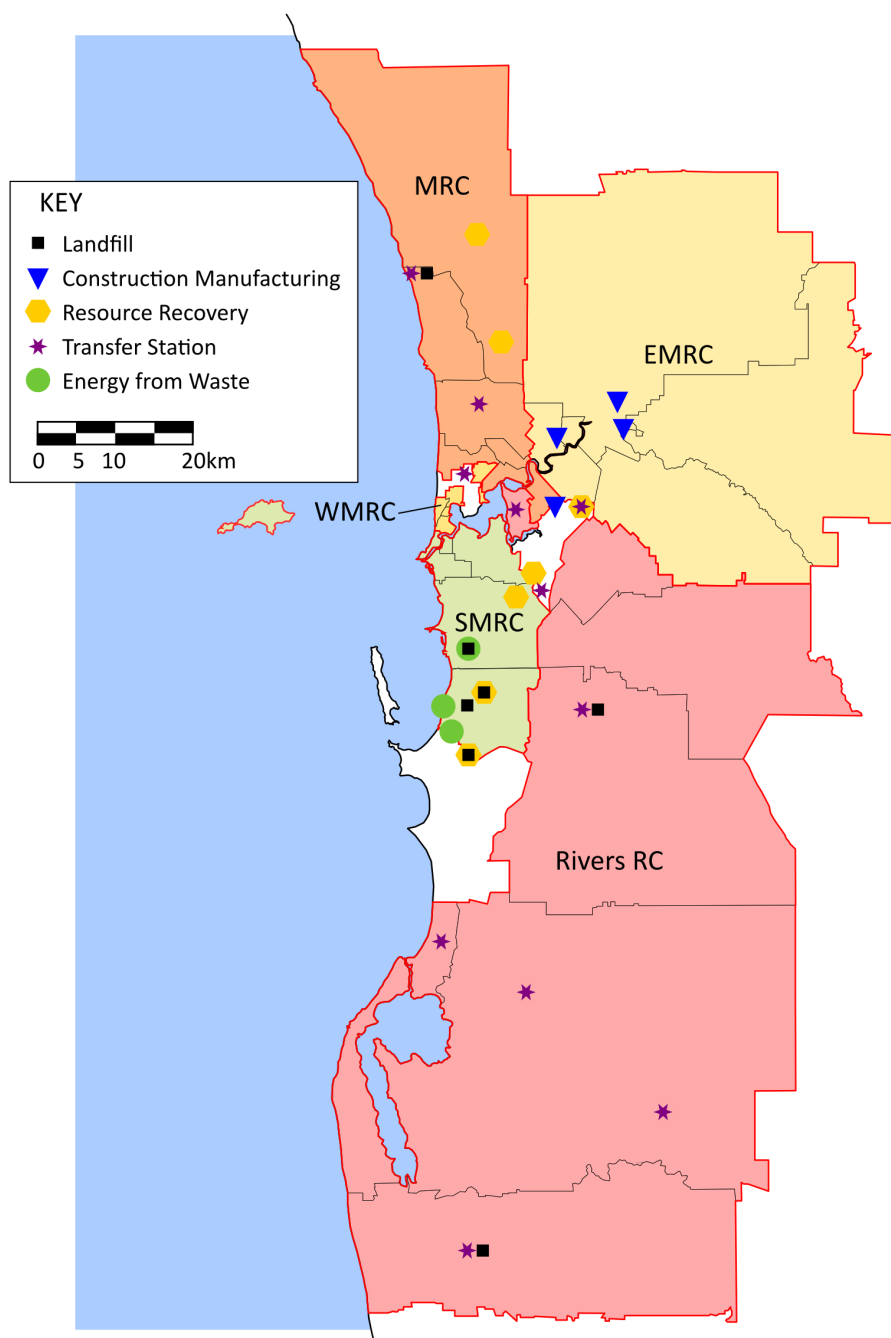
The facility accepts Class I Inert Waste, Class II Municipal Solid Waste (MSW) and Commercial Waste and Class III asbestos, quarry and contaminated soil waste. The facility is licensed to receive up to 20,000 tonnes per year of solid waste, up to 50,000 tonnes per year of Class I inert waste and up to 400,000 tonnes per year of Class II and III putrescible waste. The facility currently receives waste from SMRC, Eastern Metropolitan Regional Council (EMRC) and other local authorities within the region, accepting between 200,000 and 250,000 tonnes of waste per annum. At the current filling rate and cell approvals, the facility has an expected lifespan of over 30 year. However, its total capacity could be expanded further if required and approved.

Materials Recovery Facility (MRF) at the Regional Resource Recovery Centre (RRRC)

Kwinana delivers all its kerbside recyclables to a MRF located at the, SMRC owned and operated, RRRC. The MRF takes recyclable material from all members of the SMRC, receiving approximately 35,000 tonnes per annum. Kwinana delivers approximately 3,293 tonnes per annum, providing approximately 10% of the total material accepted.

The MRF has a wider scope than most operating MRF's in Australia, with compliant materials including plastic films and bags, both material types that are not usually accepted by MRFs.

Figure 3 Waste management infrastructure in relation to regional council boundaries¹



1.3.2 Waste infrastructure within Southern Perth

Additional waste facilities operating within Southern Perth include landfills, Advanced Waste Technology (AWT) facilities, and MRFs. Commercial operators manage most of these facilities, but there are also several council owned landfills, transfer stations and MRFs in operation.

There are also several waste facilities within the nearby Rivers Regional Council (RRC), EMRC, Mindarie Regional Council and Western Metropolitan Regional Council as well as in the neighbouring councils of City of Canning and City of Rockingham. All current facilities, as well as planned facilities (such as Energy from Waste (EfW) facilities), within the surrounding Regional Council areas, are shown in Figure 3.

¹ Southern Metropolitan Regional Council Strategic Waste Management Plan, February 2016

1.3.2.1 Existing waste infrastructure within Kwinana

The RRRC

SMRC owns and operates the RRRC. In addition to the MRF utilised by Kwinana, the RRRC encompasses a Green Waste Processing (GWP) operation and a Waste Composting Facility (WCF). The latter is a composting, drum-based, Mechanical Biological Treatment (MBT) AWT facility and the centrepiece of the RRRC.

Eclipse Resources

Eclipse Resources operates a Class I Landfill and green waste recycling facility in Postans. The facility commenced operations in 2002 and accepts both inert waste for landfilling and source separated green waste for recycling.

Thomas Road Landfill

Wastestream Management operates a Class 2 landfill facility at Thomas Road, Kwinana Beach, which is leased from the City of Kwinana. The facility accepts approximately 500,000 tonnes per year up to the year 2024, as detailed in the existing development consent.

1.3.3 Future waste infrastructure within Kwinana

No EfW facilities are currently operating in Australia on mixed residual waste streams but a number of proposals have been submitted, with a number of facilities having already received approval including one within the Kwinana LGA.

Phoenix Energy (Phoenix) secured Western Australia (WA) Environmental Protection Authority (EPA) approval for developing the *Kwinana Waste to Energy project*, an EfW facility in the Kwinana Industrial Area, south of Perth. Phoenix is a project development company that partners with established companies to deliver its projects. The Phoenix EfW Project will utilise Martin GmbH's Reverse Acting Stoker and Furnace (R-type) technology, which is licensed through Mitsubishi Heavy Industries Environmental & Chemical Engineering (MHIEC), Martin GmbH's exclusive partner for large parts of the Asia-Pacific region.

In selecting the Mitsubishi-Martin R-type technology, Phoenix has sought to ensure that the technology it deploys has been tried and tested. Phoenix cites the following factors as the main advantages of the R-type technology:

- Martin grate technology has been in commercial operation since 1959;
- Of the approximately 1,000 incinerator facilities operating worldwide, Martin GmbH has the largest market share, with its moving grate (stoker) furnace technology;
- Facilities operating in 33 countries, serving over 100 councils;
- Of the 4 grate models offered by Martin GmbH, the R-type grate has the largest installation base;
- The stoker grate technology has been demonstrated to be the most flexible of all the available options for management of a change of composition of the feedstock;
- The Martin grate stoker technology is inherently robust and flexible in efficiently recovering the embodied energy in the feedstock, even as the feedstock composition varies season to season and over time; and
- Excellent environmental performance adhering to European Union's (EU) Waste Incineration Directive.

The processing capacity of the Kwinana EfW Facility is proposed as follows:

- Up to 400,000t/yr of residual (post recycling) Municipal Solid Waste (MSW);
- Up to 100,000t/yr of C&I; and
- Generating an estimated 32MW of base load electricity to the grid.

The Kwinana EfW Facility is promising zero waste to landfill by reusing the ash produced in the combustion process to make by-products such as bricks and pavers.

Phoenix proposes to use the Brixx Technology developed by USA-based Pittsburgh Mineral & Environmental Technology (PMET) to produce building products. A 2005 trial demonstrated the technology by combining lime with fly and bottom ash from coal combustion by-products to produce a range of building products. However, the trial did not involve fly or bottom ash from waste incinerators. Online research has not revealed any instances of the Brixx technology being used commercially, while PMET has not responded to MRA Consulting Group's (MRA's) inquiries. Since the claim of zero waste to landfill cannot be verified, Kwinana will be monitoring developments in this space as part of the Strategy's actions.

1.3.4 Commitment to the Phoenix facility

Kwinana, through a Waste Supply Agreement, has a contractual obligation to supply a specified minimum tonnage of MSW per year to the *Kwinana Waste to Energy project* once the facility becomes operational. Should Kwinana wish to supply more waste, currently the facility has committed to accept up to a specified maximum tonnage of MSW per year from Kwinana.

1.4 Resident waste management behaviour

In terms of recycling rates, Kwinana is currently one of the lowest performing councils in the SMRC and the recent bin tagging trial identified a pressing need for more and improved resident waste education. During initial inspections, just 36% of households were correctly recycling all items, however, delivery of the program assisted to this level increasing to 69% of households and to an overall decrease in contamination. This program's success confirms that actively engaging the community can return significant improvements in behaviour.

Kerbside waste collections

Kerbside waste collection refers to the weekly collection of the general waste bin and the fortnightly collection of the recycling bin.

1.5 Contract management

Kwinana outsources both its kerbside waste collection and bulk verge collection with each awarded to a different company. There is a separate contract for the processing of Kwinana's recyclable material, in partnership with SMRC. As indicated in Table 2, all existing contracts are due to expire in July 2017. This provides an opportunity to alter the specifications detailed in the current contracts and ensure more favourable terms for Kwinana going forward.

Table 2 Kwinana kerbside collection and processing contracts

Contract type	Contract area	Service Provider	Term
Collection	Waste collection – MSW and Recycling	Cleanaway	July 2017
Collection and Disposal	Bulk Verge	Recycling WA	July 2017
Processing	Recyclable material	SMRC	July 2017

1.5.1 Recycling contract

Two of the key specifications involved in a recycling processing contract are: *contamination clause* and *compaction density*. If detailed correctly, both specifications can provide Kwinana with less stringent specifications to adhere to and the possibility to attain a more advantageous deal.

Kwinana's current contract for the receipt of recyclable material is with SMRC, with Cleanaway providing the collection and transfer to the SMRC MRF. The following specifications are provided in the current contract with SMRC.

Contamination Clause

In the current contract, the allowed contamination level is specified as a percentage by weight. If the observed contamination level exceeds a certain limit and the contamination clause is enforced strictly by SMRC, Kwinana would incur non-compliance penalties.

Compaction Density

A “Maximum Compaction Level” is identified in the current contract. If Kwinana delivers material of higher density to the SMRC MRF, significant charges are incurred.

The compaction density is important to the waste service provider who aims to maximise compaction in order to fit as much waste as possible into each truck. However, this is antagonistic to the recycling processor’s (SMRC in this case) needs. Over compaction of the recyclable materials can limit the separation possible through the automated processes at MRFs.

Kwinana benefits from a higher compaction rate as it reduces the number of collection vehicles required to carry the same volume of waste. This reduces costs and traffic through the community.

2. Where do we want to get to?

2.1 Vision

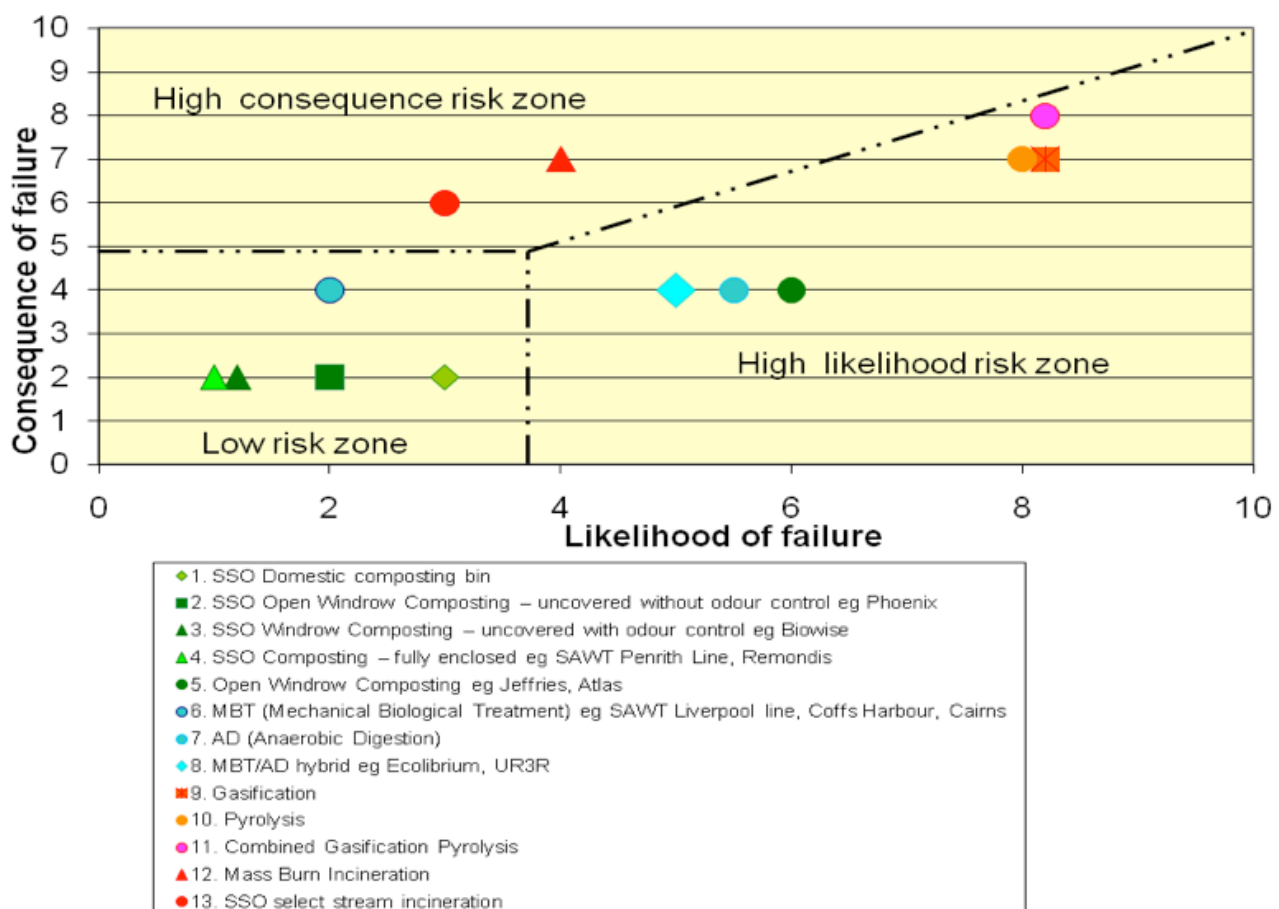
Kwinana wishes to achieve a planned and collaborative approach to waste management, which is cost effective, supportive of the local community and economy and improves resource recovery in line with State targets. Key tasks include:

1. Implementing best practice disposal and recovery options for the delivery of kerbside waste and recycling services;
2. Educating the community to ensure positive waste separation behaviour change occurs;
3. Implement an efficient, clean and cost effective bulky waste collection service;
4. Prevent and best manage litter and illegal dumping in the region through efficient placement of public place bins; and
5. Work towards achieving the *Western Australian Waste Strategy: "Creating the Right Environment"* target diversion of 65% by 2020 for MSW in the Metropolitan region.

2.2 Waste streams and technologies

Kwinana is interested in best practice disposal and recovery options for a number of waste streams, beyond the current kerbside residual service. To maximise resource recovery, in addition to public education and expanded material acceptance and bin infrastructure, it is possible to employ a range of technological solutions.

Figure 4 Relative risks associated with various forms of AWT (Source: MRA, 2016)



Each technology has a unique risk profile. Risks are a function of both the likelihood of failure and a measure of the consequence or severity of failure. Incinerators for example have a relatively low likelihood

of failure but the consequences of for example, any accidental dioxin emissions, are high. Figure 4 shows a relative risk profile matrix for various AWT technologies.

Windrow (open) and in-vessel (contained) composting facilities along with traditional landfills are considered more reliable options having been tried and proven in Australia over many years. Anaerobic Digestion (AD) is higher risk when applied to mixed waste streams. Food organics and bio-solids processing through AD is well developed. However, there are no examples of MSW processing through AD being successful in Australia with Brockwaste (using the DiCom technology) in Perth being the latest AD facility going into administration in Australia (although several companies claim success in facilities operating overseas).

Incineration is a robust and well-tested (outside of Australia) technology, while gasification and pyrolysis are not as established or implemented and therefore carry higher technology risk. Any move toward these technologies would constitute an increased risk profile for Kwinana.

Kwinana is interested in utilising technological solutions for minimising waste to landfill while also maintaining a low risk profile. Table 3 presents Kwinana's preferred processing and disposal pathways for each waste stream.

Table 3 Best practice disposal and recovery options as applying to Kwinana

Waste stream	Primary options available	Kwinana preference
Putrescible waste (residual)	<ol style="list-style-type: none"> 1. Landfill 2. Composting (to produce low-grade quality compost) 3. EfW (eligibility dependent on the WA Energy from Waste Policy and bin systems implemented by Kwinana) 	<ul style="list-style-type: none"> • Send to Phoenix under agreement • If economically viable, source separate organics at the kerbside (rather than recovering via an AWT designed for mixed residual waste) due to low throughput and high capital costs • Compost source separated organics if economically viable (food, garden and paper)
Recycling (dry recycling)	<ol style="list-style-type: none"> 1. MRF 2. Sorting and haulage of comingled material to market 3. Landfill 	<ul style="list-style-type: none"> • Send to MRF
Garden organics (GO)	<ol style="list-style-type: none"> 1. Landfill 2. Chipping and mulch (use as landfill daily cover) 3. Composting 	<ul style="list-style-type: none"> • If implemented, source separate garden organics at the kerbside for composting • Chip oversize material for daily cover or mulch material for community use
Bulk household materials	<ol style="list-style-type: none"> 1. Self-haul to landfill/tip shops 2. Scheduled pick up by Kwinana for haulage to landfill 3. On call pick up by Kwinana for haulage to landfill 	<ul style="list-style-type: none"> • Improve tip shop facilities, if viable to do so • Encourage residents to self-haul and separate bulky waste at the landfill to ensure users, rather than all residents, pay for waste disposal and that recovery rates are maximised
Mattresses	<ol style="list-style-type: none"> 1. Recycling of ticking (material), steel and foam 	<ul style="list-style-type: none"> • Landfill mattresses unless a commercially viable option becomes available • Recycling of mattresses could be coupled with a "Men's Shed" or similar community organisation
E-Waste	<ol style="list-style-type: none"> 1. Landfill 2. Recycling of precious metals (e.g. copper) 3. National Television and Computer Recycling Scheme (NTCRS) 	<ul style="list-style-type: none"> • Investigate options for participation in the NTCRS • Continue to remove copper prior to landfilling if compliant with Work Health and Safety (WHS) requirements
Food waste	<ol style="list-style-type: none"> 1. Landfill 2. Composting 3. Anaerobic digestion (possible technology risk) 	<ul style="list-style-type: none"> • If economically viable, source separate at the kerbside • Compost material locally

2.3 Kwinana guiding principles

Kwinana's Strategic Community Plan 2015-2025 is a long-term strategic plan that develops common goals to guide the whole community in working together to achieve community aspirations.

During the development of this plan, each household was invited to participate in the Kwinana 2030 Visioning Survey. Waste services / verge collections were identified as one of the lowest priorities for change amongst residents.

A key aspiration from the plan is to promote the idea of *'its all here – services, facilities, diverse lifestyles'*. An objective of this aspiration is to create diverse places and spaces where people can enjoy a variety of lifestyles. To achieve this, Kwinana has taken a proactive and strategic approach to planning for significant infrastructure needs for the future, such as waste disposal and recycling facilities to ensure that project timeframes are matched to population growth.

2.4 State targets

The *Western Australian Waste Strategy: "Creating the Right Environment"* was developed by the Waste Authority in 2012 and guides the State towards the long-term strategic direction and priorities for WA over the next decade, which includes providing knowledge, infrastructure and incentives to commence a shift to a low-waste society.

Strategic targets have been set based on known resource recovery performance during 2009/10. The targets are described as 'ambitious but achievable' improvements to Western Australia's resource recovery performance. While these targets are state-wide and include both the Commercial and Industrial (C&I) and Construction and Demolition (C&D) sectors, only domestic waste management falls within the realm and responsibility of Local Governments in the WARR Act 2007.

Table 4 Western Australia Waste Strategy diversion targets

Waste Stream	2009/10 recovery	Diversion by 30 June 2020
MSW (Metropolitan Region)	26%	65%
MSW (Major regional centres)	15%	50%
C&D Waste (State-wide)	29%	75%
C&I Waste (State-wide)	46%	70%

2.5 Relevant documentation

The documents presented in Table 5 provide the background knowledge for setting the baseline for the Strategy.

Table 5 Data review summary

Information type	Documents/data
Financial	<ul style="list-style-type: none"> City of Kwinana Current Contract Prices 2016
Tenders and Contracts	<ul style="list-style-type: none"> General Waste and Recycling Collection and Disposal Services Contract Bulk and Green Waste Verge Collection Services Contract Memorandum of Understanding (MOU) – Proposed sale of RRRC MRF
Waste composition	<ul style="list-style-type: none"> City of Kwinana Audit Report 2016 City of Kwinana Festival Audit Report 2014
Waste tonnages	<ul style="list-style-type: none"> City of Kwinana Waste Statistics 2010/11 to 2015/16 City of Kwinana Bulk and Green waste tonnes 2007 to 2016

2.6 The Emissions Reduction Fund

The Direct Action Plan has replaced the Carbon Price Mechanism as the primary legislation directed at meeting Australia's commitment to reduce Greenhouse Gas (GHG) emissions. The Australian Government will reduce GHG emissions to 26-28 per cent below 2005 by 2030. This target is a step up from Australia's current target to reduce emissions to 5% below 2000 levels by 2020. Direct Action consists of a number of initiatives including:

- A \$2.5 billion Emissions Reduction Fund (ERF) to support direct action by business to reduce emissions;
- Boosting renewable energy, especially solar; and
- Support for emerging technologies through the Renewable Energy Target (RET).

Through the ERF, the Government purchases lowest cost abatement (in the form of Australian Carbon Credit Units (ACCUs)) from a wide range of sources, providing an incentive to businesses, households and landowners to reduce emissions.

In order to participate in the ERF, project proponents must carry out a project in accordance with a methodology determination to appropriately estimate abatement from certain activities. The Carbon Farming Initiative methodologies, which this policy replaces, provide the basis for the ERF methodologies - which are currently subject to consultation with industry and the public.

Approved methods for the waste and recycling sectors include:

- Landfill gas capture and destruction;
- Alternative Waste Treatment; and
- Wastewater treatment.

New waste methods include:

- Diversion of Source Separated Organics (including Food and Garden waste);
- Biofilters;
- Energy from waste; and
- Waste avoidance projects.

The Direct Action Plan was passed into law in October 2014 and the first allocation of funds was held on April 15-16th. A total of 47 million tonnes of CO₂-e was purchased at an average price of \$13.95 per tonne. Of this, the waste industry accounts for nearly 17 million t CO₂-e or 35% of total volume purchased, proving that the waste industry continues to play a major role in emissions reduction efforts.

To make good on these contracts, create carbon credits and generate revenue, existing and prospective project proponents need to:

- Register a project with the Clean Energy Regulator as soon as possible;
- Forecast emissions over the next 7 years;
- Register for the next auction;
- Bid at auction;
- If successful, carry out the project, and report progress; and
- Deliver abatement in accordance with the delivery schedule.

If Kwinana decides to implement a kerbside organics service, it is likely that the project would be eligible to apply for ACCUs, introducing a new (albeit relatively small) revenue stream for Kwinana.

2.7 Resident waste management behaviour

As identified by the recent Bin Tagging Program, the current waste management behaviour of Kwinana residents is below average, yet, the results from the program indicate that with clear, effective education material the recycling performance of residents can be increased. This implies that although the current

education provided to residents is not adequate, significant improvements can be made through a persistent and targeted campaign.

Thus, Kwinana intends to improve its waste education material and efforts in order to improve the waste management behaviour of residents.

2.7.1 Community consultation feedback

In 2016, residents of Kwinana were asked to detail their waste management priorities through a survey extended to all members of the SMRC. The following conclusions were drawn and considered throughout the Strategy:

- Kwinana residents consider *'Building 'Waste to Energy' plants'* to be more important than *'separating garden and food waste'*;
- However there still is very strong support for source separation of Food Organics and Garden Organics (FOGO) as 83% of residents living in Kwinana would like a third bin to be introduced. This is greater than the SMRC average of 76%;
- The majority of Kwinana residents would prefer to see a FOGO service introduced rather than just a Garden Organics (GO) service (53% for FOGO; 32% for GO);
- 55% of residents are willing to pay \$50 per year for the introduction of a 3rd bin, with that level increasing to 69% if the cost is reduced to \$12 per year;
- Residents of Kwinana consider the SMRC and RRRC's effectiveness to be significantly greater than other municipalities in the SMRC regarding the following aspects:
 - Reducing waste to landfill;
 - Removing contaminants from the waste stream; and
 - Educating the community about waste reduction.
- Only 8% of residents in Kwinana were aware of the *Recycle Right* campaign;
- Approximately two thirds of Kwinana residents prefer waste education materials to be distributed via a Brochure / Flyer or waste calendar;
- 82% of Kwinana residents considered themselves to be delighted with their current weekly general waste collections, however, this is below the average across other SMRC municipalities of 91%;
- 65% of residents living in Kwinana considered themselves to be delighted with their current recycling collections. However, this is much lower than the average across SMRC councils (85%);
- 67% of Kwinana residents were delighted with GW verge collections, close to the 71% average across the whole of the SMRC;
- Only 55% of residents living in Kwinana were delighted with the current verge bulky waste collections; and
- Current education gaps for Kwinana residents seem to be surrounding recyclables in plastic bags; non-rinsed items and broken glass.

2.8 Contract management

The Strategy will inform the waste collection and processing tender specifications employed by Kwinana to ensure that subcontractors achieve best practice at each facility.

2.8.1 Recycling contract

Contamination Clause

To enable Kwinana to meet its vision and increase resource recovery, it is important that any progress in reducing contamination is given recognition. The best method for Kwinana to see this credit is through reduced penalty rates for a decrease in contamination. This can be achieved through the utilisation of banded contamination clauses, as opposed to a single defined contamination level.

Banded contamination levels offer the opportunity for Kwinana to make progress reducing the contamination located in recyclable material and see financial benefits for any reduction through an education program or another Bin Tagging program.

Compaction Density

The current compaction density requirements identified in the contract with SMRC are very stringent. According to a study performed by Anne Prince Consulting in South Australia (SA) in 2012², the compaction density on collection vehicles has little effect on the recoverability of materials at a MRF. The study concluded that a compaction density of up to 200 kg/m³ is acceptable and that there is a minimal difference between compaction densities of 150 kg/m³ and 225 kg/m³.

Utilising these findings provides Kwinana with an opportunity to increase the compaction densities allowed to be delivered to the SMRC MRF. If the 'Maximum Compaction Level' can be increased, more competitive tender bids could be provided for the collection of recyclable material in Kwinana.

² Optimum Compaction Rate for Kerbside Recyclables for Zero Waste SA and Local Government Research and Development Scheme, 2012. Anne Prince Consulting.

Note: this study was performed in a region where a Container Deposit Legislation (CDL) has been implemented, slightly changing the composition of the recyclables.

3. How will we get there?

3.1 Kerbside options

Following evaluation of several waste management options³ and considering Kwinana's priorities, a system utilising two bins (residual waste and comingled recycling) and EfW for all residual waste will be pursued by Kwinana. Its key advantages are that:

- The diversion of material from landfill is maximised by EfW; and
- This option is compatible with Kwinana's commitment to supply waste tonnes to the Phoenix EfW.

However, Kwinana acknowledges that a different method for the final disposal of residual waste might be required as a result of external factors. The WA government does not currently have a formal EfW policy. Therefore, if the state government decides to implement a policy for source separation to be maximised prior to the use of EfW, as other states have, Kwinana would need to pursue a different waste management system. Although further research would be carried out at the time, it is envisaged that in such a case Kwinana would employ a 3 bin FOGO system with residual garbage being supplied to the Phoenix EfW. The key advantages of this option would be:

- Option is compatible with Kwinana's commitment to supply waste tonnes to the Phoenix EfW;
- Maximisation of source separation at the household level; and
- Safe option from a policy perspective as only residuals are incinerated.

The Strategy acknowledges that there are considerable risks associated with EfW, including:

- The quoted EfW gate fee, whilst very competitive with landfill, is low compared to existing EfW facilities internationally;
- Uncertainty as the facility is not built yet;
- Throughput tonnage uncertainty;
- Inability to fully insulate Kwinana from gate fee increases in commercial contracts; and
- Existing operational/technology risk and the absence of reference plants operating in the Australian context.

3.2 Recycling contract management

Kwinana will attempt to alter the following specifications in the recyclable material processing contract:

Contamination Clause

Instead of the current contamination clause Kwinana would seek bands of contamination. These bands shall allow more variance for the contamination identified in Kwinana's recyclable material. For example:

- 0-5% contamination;
- 5-10% contamination;
- 10-15% contamination; and
- 15+% contamination.

Compaction Density

The current compaction density requirements identified in the Contract with SMRC are very stringent. It is recommended that when Kwinana seeks a new contract, the requirement for such a low compaction density is removed and a charge is only incurred when the compaction density is greater than 225kg/m³.

³ MRA completed thorough modelling utilising its bespoke consolidated cost model (CCM) to quantitatively analyse waste management options available to Kwinana. These outputs were combined with a qualitative assessment to ensure a quadruple bottom line (cost, environmental, governance and social) assessment was adhered to.

3.3 Waste education

A waste education program will target resident waste management behaviour using improved waste education material and efforts that focus on:

- Reduction of contamination of recycling bins;
- Correct placement of items in waste and recycling bins;
- Additional programs to educate on the use of FOGO bins if implemented;
- Increase uptake rate of 360 litre bins for those households with inadequate recycling capacity;
- Education of best management of the CDL scheme (when implemented);
- Education of community on waste avoidance i.e. worm farming /home composting initiatives;
- Involvement on reuse schemes such as Garage Sale Trail to reduce hard wastes to disposal or recycling faculties;
- Educate community on waste hierarchy; and
- Educational and promotional media packages to improve recycling in public places.

3.4 3 bin FOGO trial

Although Kwinana has resolved not to go to a 3 bin system unless directed by the Waste Authority or Phoenix Energy's EFW facility does not get built, a FOGO trial will be carried out within the LGA within 2017 as part of a long running SMRC project involving specific Kwinana households. The City of Kwinana has been invited by the SMRC to participate in a limited FOGO 3 bin trial and current tender specifications are being written that allow for a FOGO trial to be carried out at 200 houses that have historically been audited for waste and recycling.

3.5 Further waste management considerations

In addition to the major aspects of waste management discussed previously, this Strategy will inform several other areas to achieve best practice waste management in Kwinana. Table 6 identifies these areas providing detail on the current situation, setting targets and outlining Kwinana's approach to addressing them.

Table 6 Further waste management considerations

Item	Where are we today?	Where do we want to get to?	How will we get there?
360L recycling bin	<p>Recycling is collected fortnightly in Kwinana, following best practice guidelines.</p> <p>Residents can order a 360L recycling bin (to replace the current 240L bins) for a one-off fee of \$50 but uptake has remained very low.</p> <p>The recent Bin Tagging Program undertaken by Kwinana, identified that in some suburbs up to 10% of bins were overflowing. This implies that compliant recyclables are being lost into the garbage stream (leakage of recyclables). This is supported further by the 2016 Kwinana Bin Audit findings showing that 23.5% of the garbage bin content was kerbside recyclables.</p>	<ul style="list-style-type: none"> • Increase the resource recovery rate of comingled recyclables; • Reduce the number of overflowing bins; • Increased uptake of 360L bins; and • Reduce the amount of leaked recyclables in the MSW bin. 	<p>Kwinana will continue to offer a kerbside comingled recycling service on a fortnightly collection cycle.</p> <p>Continue to offer 360L bins for households requiring increased capacity and give consideration to providing those bins for free. Experience in other councils around Australia, has shown that the increase in recovery of recyclable materials shall cover the capital cost of the 360L bins.</p>

Item	Where are we today?	Where do we want to get to?	How will we get there?
Hard waste collections	<p>Kwinana currently offers the following hard waste collections:</p> <ul style="list-style-type: none"> • 4 green waste collections per annum; and • 2 bulky waste collections per annum. <p>The hard waste collection services in Kwinana are currently more than adequate, with most households being significantly over-serviced.</p> <p>These services are provided by Western Maze Recycling Service.</p>	<p>A more efficient, cost effective hard waste collection service.</p>	<p>Perform community survey in Kwinana to confirm why residents are currently unhappy and conduct a willingness to pay study for different services.</p> <p>Whilst further investigation is performed into hard waste collections, the following recommendations are made:</p> <p>Bulk green waste collection</p> <p>If a 3rd bin is implemented, Kwinana will eliminate GW kerbside collections.</p> <p>Bulky waste collection</p> <p>Based on the outcomes of the study, Kwinana could modify its service offering and offer a combination of annual scheduled bulky waste collections and on-call services. In the meantime, Kwinana will continue to offer households 2 scheduled bulky waste collections per annum.</p> <p>Extra products</p> <p>In the upcoming contract renewal, Kwinana will explore the possibility of asking contractors to also provide collection cost estimates on a per large item basis, rather than simply on the usual per tonne basis. This has been found to reduce the hard waste collection cost in other jurisdictions.</p>

Item	Where are we today?	Where do we want to get to?	How will we get there?
Container deposit legislation (CDL)	<p>There is currently no CDL in WA. However, in other states, namely South Australia and Northern Territory, a CDL has been successfully implemented.</p> <p>From July 2017, New South Wales (NSW) will also implement a CDL.</p> <p>WA has announced that a CDL will be implemented in mid-2018 to complement the Western Australian Waste Strategy, help reduce littering and increase recycling.</p> <p>Under the scheme, consumers will be able to get a refund on containers such as beer cans and bottles, soft drinks, bottled water, small flavoured milk drinks, sports drinks and spirit-based mixed drinks. The cost of the container deposit scheme will be built into the retail price of the packaged beverage.</p> <p>The refund will be available from reverse vending machines and collection depots at parks, beaches and other public spaces across Western Australia.</p>	<p>There are many benefits to Kwinana from a state-wide implementation of a CDL including, but not limited to:</p> <ul style="list-style-type: none"> • Increased value of the recyclables in the bin; • Additional space in the recycling bin; and • Options to further improve resource recovery rates (e.g. allow pre-formed polystyrene). 	<p>A CDL scheme will likely have the following impacts:</p> <ol style="list-style-type: none"> 1. The weight of the comingled recycling bin will decrease (as containers are transported to a depot directly by residents or community organisations). These containers can be defined as responsive containers. 2. However, some containers will remain in the kerbside bin as the householder may not value the financial incentive to return the containers to a depot. These containers are defined as non-responsive containers. 3. The commodity value of the responsive containers is lost to the MRF (and to Kwinana). 4. However, the deposit value of the non-responsive containers, outweighs the commodity value lost to the responsive containers. 5. Therefore the average value of dry recyclables (\$/t) increases for Kwinana as a result of the revenue generated through claiming the deposit value through the CDL scheme. <p>Kwinana will monitor the effect of the CDL on the collected recyclables to inform its decisions in regard to kerbside recycling contracts, namely to ensure that Kwinana retains most or all of the deposit value.</p> <p>Any changes to the acceptability of materials in the kerbside comingled recycling bin will likely result in a contractual variation between Kwinana and its waste service provider at the time, or should be included in upcoming tender specifications.</p>

Item	Where are we today?	Where do we want to get to?	How will we get there?
Multi-unit dwellings	<p>Approximately, 10% of households in Kwinana are identified as multi-unit dwellings (MUDs)⁴. MUDs are regularly identified as problem areas for many councils, including Kwinana. Generally, public housing developments are recognised as the worst performing areas.</p> <p>There are no MUDs in Kwinana that have waste chutes.</p> <p>Kwinana offers approximately 1 bin per 2/3 MUD residences.</p> <p>Further problems with MUDs are caused with shared bins remaining on the kerb for a significant length of time post-collection. This causes several issues, predominantly surrounding local amenity.</p>	<p>A more efficient MUD collection system to improve resource recovery rates and enhance local amenity.</p>	<p>Number of MGBs</p> <p>A bin fullness study, predominantly aimed at MUDs, shall be performed to understand if current MGB capacity is sufficient.</p> <p>In the meantime, Kwinana will continue to offer 1 bin per 2/3 MUD residences. This is in-line with best practice.</p> <p>Evaluate the use of 660L and 1100L bins to reduce the number of bins however this is potentially more expensive due to milk-run requirement.</p> <p>Waste chutes</p> <p>Given the lack of floor space when building new MUDs, waste chutes are becoming a common feature of these developments. Kwinana will ensure it continues to deny waste chute construction for buildings up to 6 stories as they are recognised to severely increase contamination⁵. Given that for higher buildings, chutes are a necessity Kwinana will ensure the installation of dual chutes and combine with education should it become an issue.</p>

⁴ Forecast.id. Available at: <http://profile.id.com.au/kwinana/dwellings>

⁵ <https://www.mwrrg.vic.gov.au/assets/resource-files/MUDs-MFR3-Final-Report-MelbYarra.pdf>

Item	Where are we today?	Where do we want to get to?	How will we get there?
Home composting bins /worm farm	Neither home composting bins nor worm farms are currently offered to residents of Kwinana.	<p>Although home composting and worm farming does not equate to reduced waste generation per se, it does reduce the waste deposited in the kerbside bins, thus reducing the amount of waste Kwinana is responsible for removing.</p> <p>Facilitating the use of home composting bins and worm farms by the community, can contribute towards Kwinana's vision of best practice resource recovery management.</p>	<p>Kwinana will encourage households to set up a compost or worm farm, thus the tonnage of organic material entering the residual waste stream will be reduced.</p> <p>To achieve best results through this system, Kwinana will:</p> <ul style="list-style-type: none"> • Attempt to negotiate discounts on home composting bins; • Give consideration to setting up a voucher system for residents to purchase subsidised bins directly from retailers; • If home composting is implemented: <ul style="list-style-type: none"> ○ Develop and deliver an information campaign to publicise the system; and ○ Monitor system performance and deliver a long-term information and education campaign to support the long-term use of home composting bins and to recruit new participants. <p>Compost Revolution has been one successful program to date⁶.</p>

⁶ More information available at: <http://compostrevolution.com.au/about/>

Item	Where are we today?	Where do we want to get to?	How will we get there?
Public place bins	<p>Public place or litter bins are installed throughout the Kwinana municipality for the collection of public place waste. These bins are generally positioned in high use areas such as town centres, beaches, parks, bus stops and sports fields.</p> <p>The type of bin and frequency of service varies from area to area.</p> <p>Kwinana has begun to ask developers to include public place recycling bins, together with waste bins, in new parks.</p>	<p>Kwinana wishes to implement a more efficient public place bin system to improve productivity and customer satisfaction with the installation of public place recycle stations throughout the municipality.</p> <p>This program is to be accompanied with a clear communication package to ensure contamination in the recycling bins is kept to a minimum.</p>	<p>To increase the number of public place recycling stations, Kwinana will:</p> <ul style="list-style-type: none"> • Identify high use areas suitable for the installation of more bins; • Focus on educating residents on source separation and the use of public place bins; • Continue to ensure all new parks include public place recycling bins; and • Install public place recycling bins at Kwinana's major beaches and business districts. <p>Ensuring contamination is kept to a minimum is a more difficult challenge for councils to overcome. Best practice suggest that Kwinana should:</p> <ul style="list-style-type: none"> • Perform a public place garbage bin audit to understand what to recycle and required bin size; • Execute a visual audit of garbage bins to understand required bin type and placement; • Design effective communication and signage to develop key messaging; and • Implement a program for ongoing maintenance of the recycling stations to maintain a safe and clean environment.

Item	Where are we today?	Where do we want to get to?	How will we get there?
Charity bins	<p>There is no formal policy in place for the management of charity bins throughout Kwinana.</p>	<p>Badly managed and poorly located clothing bins can cause problems with illegal dumping and graffiti, therefore demonstrating the requirement for a clear policy to be implemented.</p> <p>A more formal arrangement for charity bins such as those implemented by councils in NSW and Victoria, is the recommended best practice.</p>	<p>Many councils follow similar guidelines to those shown below:</p> <ul style="list-style-type: none"> • All organisations to be registered under the Charitable Collections Act 1947; • All organisations to be a member of the National Association of Charitable Recycling Organisations (NACRO) and agree to comply with the NACRO Code of Practice; and • Guarantee that the clothing is collected, sorted and distributed by the charity named on the clothing bin and owning the bin. <p>However, it is recommended that Kwinana explore the opportunity to commercialise this opportunity where the following advantages have been shown to be apparent in other jurisdictions:</p> <ul style="list-style-type: none"> • Value add to Kwinana; • School education programs; • Enhanced technology and infrastructure; and • Exhibition of best practice resource recovery.

4. How will the strategy be implemented?

This Strategy Action Plan presented in Table 7 details the recommended actions and their corresponding timeframe for implementation along with the relative priority of each action. This plan takes into consideration seasonal variations in waste generation and management systems, financial pressures and the lessons learnt from other councils that implemented FOGO systems. Where possible, risks will be mitigated using trials, consultation and education.

Table 7 Summary of recommended actions

Recommended actions		2016/17	2017/18	2018/19	2019/20	2020/21	Priority	KPI
1	Strategy actions							
	A Review draft strategy findings and actions.						High	Finalised strategy Community feedback
	B Seek clarification on government policy regarding 3 bin v 2 bin EfW – Waste Authority v Premier.						High	
	C Finalise strategy findings and actions.						High	
	D Adopt strategy findings and actions.						High	
2	Contract actions							
	A Conduct a full review of waste management contracts.						High	Streamlined contract management Competitive tender bids
	B Seek short term contracts for processing of waste and recyclables to remain flexible in view of the uncertainty regarding the effect of the CDL, Phoenix EfW and future regional arrangements.							
	C Use the Strategy to guide the tender specifications for renewal, particularly surrounding recycling contamination and compaction density.						Medium	
	D Maintain current scope for compliant recyclables (e.g. allow soft plastics).						Medium	
	E Explore the possibility to alter scope for hard waste collection to be \$/item.						Medium	
	F Go to tender for kerbside and hard waste collection contracts.						High	
	G Engage contractor(s) to deliver waste services for Kwinana.						High	
	H Consider using NSW model contracts to reduce cost and risk after implementation of CDL.							
3	Infrastructure actions							
	A Seek update from Phoenix regarding facility opening.						High	Obtain high recovery rates High diversion from landfill
	B Perform a trial with only a percentage of all MSW going to Phoenix.						Medium	
	C Increase proportion of MSW incrementally until 100% of MSW is going direct to Phoenix.						Medium	
4	Collection actions (dependant on Action 1C)							
	A Perform a 3 bin trial.						High	Source separation is maximised
	B Implement a 3 bin FOGO collection system across all households (if 2 bin EfW is restricted).						High	

Recommended actions		2016/17	2017/18	2018/19	2019/20	2020/21	Priority	KPI
5	Education/Engagement actions							
	A To achieve the targets set at Section 3.3, including increasing recycling, develop a comprehensive resident behaviour change program through development of Recycle Right or similar model. Expand to include 3 bin FOGO if implemented.						High	Active community engagement Reduced contamination
	B Continue Recycle Right or similar model campaign.						High	
6	Other actions							
	A Continue offering 360L recycling bins.						High	Increased recovery
	B Promote the use of home composting bins/worm farms and consider offering equipment at reduced rates.						High	Improved environmental conditions
	C Investigate options to participate in the ERF.						High	

References

- Anne Prince Consulting, 2012, *Optimum Compaction Rate for Kerbside Recyclables for Zero Waste SA and Local Government Research and Development Scheme*, available at: <http://www.zerowaste.sa.gov.au/upload/resource-centre/publications/reuse-recovery-and-recycling/ZWSA%20Compaction%20Study%20Final%20Feb%202013.pdf>
- Australian Bureau of Statistics, 2011, *Estimated Resident Population – Far West and Orana*.
- Coonamble Shire Council, 2015, *Coonamble Shire Council Operational Plan 2015/16*, available at: [file:///Users/roslyn/Downloads/CSC+Operational+Plan+2015-16%20\(1\).pdf](file:///Users/roslyn/Downloads/CSC+Operational+Plan+2015-16%20(1).pdf)
- Dubbo City Council, 2015, *Dubbo Regional Organics Processing Plan and Organic Waste Collection under Consideration*, available at: <http://www.dubbo.nsw.gov.au/media-releases/dubbo-regional-organics-processing-plant-and-organic-waste-collection-under-consideration>
- Gilgandra Shire Council, 2011, *Fit for the Future Local Government Reports*, available at: <http://www.gilgandra.nsw.gov.au/council/your-council/fit-for-the-future>
- Metropolitan Local Government Waste & Resource Recovery Fund, 2016, *Improving Resource Recovery with Residents at Multi-Unit Dwellings*, available at: <https://www.mwrrg.vic.gov.au/assets/resource-files/MUDs-MFR3-Final-Report-MelbYarra.pdf>
- Mid-Western Regional Council, 2015, *Regional Organics Opportunity*, available at: <http://www.midwestern.nsw.gov.au/Global/Our%20Council/Business%20Paper,%20Attachments%20and%20Minutes/2015/Feb%202015/18%20February%202015/6.2.21%20Report%20150218.pdf>
- Resource Recovery Biz, 2015, *Processing Cost No Barrier to FOGO*, available at: <http://www.resourcerecovery.biz/news/processing-cost-no-barrier-fogo>
- Southern Metropolitan Regional Council, 2016, *Strategic Waste Management Plan*, available at: http://smrc.com.au/wp-content/uploads/key-docs/Business-Plans/160208%20SMRC%20SWMP_DRAFT%208a%20-%20BDo%20changes2.pdf

12 Reports – Community

Nil

13 Reports – Economic

Nil

14 Reports – Natural Environment

14.1 The City of Kwinana Integrated Strategic Mosquito and Midge Management Plan

DECLARATION OF INTEREST:

There were no declarations of interest declared.

SUMMARY:

This report seeks Council adoption of the City of Kwinana Integrated Strategic Mosquito and Midge Management Plan (Attachment A).

The City of Kwinana Integrated Strategic Mosquito and Midge Management Plan (the Plan), was prepared by consultant Rankine Mosquito Management in 2016 based on the Department of Health's "Guide for Developing a Mosquito Management Plan for Local Government". The final Plan has been completed by City Officers following required amendments and review by the City and the Department of Health.

The Plan aims to minimise disease risks and nuisance associated with mosquitoes and midges upon the City's residents and visitors.

OFFICER RECOMMENDATION:

That Council adopt the Integrated Strategic Mosquito and Midge Management Plan for the City of Kwinana as detailed in Attachment A.

DISCUSSION:

Background

Ross River virus (RRV) and Barmah Forest virus (BFV) can significantly impact an infected person's lifestyle. These mosquito-borne viruses cause extremely debilitating disease in humans. The symptoms of these viruses including fever, fatigue, headaches, flu-like illness, skin rashes and painful or swollen joints. Midges do not pose any serious risk to human health; however, they can be a nuisance and may affect the amenity and lifestyle of both residents and visitors.

The biology of mosquito and midges, historical mosquito monitoring results, prevalence, environmental variances and nuisance/disease risk for Kwinana have been analysed and included in the Plan. The most abundant species of mosquitoes, *Culex Annulirostris* was found consistently at the monitoring sites. This species is known to carry mosquito-borne diseases including RRV and BFV and will bite viciously.

Both nuisance and disease risks associated with mosquito and midges increase as residential development occurs in close proximity to wetlands. This triggers the need for effective management of mosquitoes and midges within the City of Kwinana, which requires an integrated approach comprising of chemical, biological, physical and cultural methods to minimise interactions with the public and exposures to midges or disease carrying mosquitoes in the long term.

14.1 THE CITY OF KWINANA INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

To date, the City of Kwinana has focused on ensuring that all developers prepare and implement a mosquito and midge management strategy for new residential developments through planning conditions on Local Structure Plans and subdivision approvals. These management plans are enforced by the City as part of the design and construction phases of the development, and maintained and enforced for up to three years following completion until such time as the development is signed over to the City.

Ongoing Monitoring Program

The Plan proposes to investigate new breeding habitats in closer proximity to residences and new developments over a minimum of 12 months to establish mosquito abundance over time and further assess the risk of mosquito-borne disease in Kwinana. These sites were selected based on recent RRV notifications, developer's trapping results and identification of standing water during ground survey assessment. Larval sampling and adult trapping are recommended to be carried out on a fortnightly basis between September and April, and once per month for the remainder of the year (May to August). These sites will be reviewed and (where necessary), re-selected following a year of baseline monitoring.

As midges do not pose a significant nuisance in Kwinana, midge monitoring is proposed to be conducted when complaints are received. The City's Environmental Health Department will investigate all mosquito and midge complaints, mosquito-borne disease notifications and undertake an initial assessment of the City's stormwater drainage system being a potential breeding habitat.

Control Strategies

The Plan covers a range of integrated control measures including a combination of physical, biological, chemical and cultural control methods to provide long-term effective control of midges and mosquitoes. These strategies are to be implemented by a number of internal departments within the City. An action plan is included which outlines the responsibilities and contributions for each area, comprising of both proposed new initiatives and existing operations and strategies.

Review and Reporting

Following adoption by Council, the City's Environmental Health Department will conduct ongoing reviews and a formal evaluation at the end of three years to identify emerging trends and risks. The actions outlined in Table 7 of the attached Plan will be reported and summarised through an annual report for submission to the Department of Health.

LEGAL/POLICY IMPLICATIONS:

The City is obligated to minimise the risk of disease from disease vectors under the *Health (Miscellaneous Provisions) Act 1911*.

The *Health (Miscellaneous Provisions) Act 1911* will continue to be the main enforcement tool until fully repealed. However, the following parts of the *Public Health Act 2016* have come into effect since September 2017.

14.1 THE CITY OF KWINANA INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

- Part 3, Section 34(1) of the *Public Health Act 2016* (the Act) states that: *A person must take all reasonable and practicable steps to prevent or minimise any harm to public health that might foreseeably result from anything done or omitted to be done by the person.*
- Part 4 of the Act provides a broad and flexible offence framework that is capable of capturing both known and emerging public health risks.
- Part 9 deals with the management of infectious diseases and related conditions including the threat to public health from mosquito-borne diseases.

Part 5 of the Act, which is yet to be enacted, requires the Local Government to develop a local public health plan.

FINANCIAL/BUDGET IMPLICATIONS:

To implement the City of Kwinana Integrated Strategic Mosquito and Midge Management Plan, the following is anticipated:

- Human Resources to implement the program.
- Transport costs.
- Personal protective equipment.
- Mosquito sampling and treatment equipment.
- Digital microscope with camera.
- Consumables including dry ice and batteries.
- Chemicals.
- Training.
- Dissemination of information to residents.

The total cost to implement the Plan is expected to be approximately \$56,200 in the first year with the potential for this to increase in subsequent years as the number of sites increase. Funding is available through: the Contiguous Local Authorities Group (CLAG) fund (\$8,816), the mosquito management annual expenses budget (\$10,000) and the Mosquito Management Reserve (\$260,000).

A business case will be prepared to consider the range of options having regard to cost, impact to the organisation, ongoing resourcing implications etc.

ASSET MANAGEMENT IMPLICATIONS:

Asset management implications may include physical modifications or upgrades to the City's stormwater drainage.

ENVIRONMENTAL IMPLICATIONS:

The Plan stipulates that only the most cost-effective, environmental friendly and target specific chemicals will be used for larviciding.

The implementation of this Plan will contribute to the improved amenity of the City's public open space and reserves.

14.1 THE CITY OF KWINANA INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

STRATEGIC/SOCIAL IMPLICATIONS:

This proposal will support the achievement of the following outcomes and objectives detailed in the Strategic Community Plan and the Corporate Business Plan.

Plan	Outcome	Objective
Strategic Community Plan	It's all here (Infrastructure)	4.3 Ensure the Kwinana community is well serviced by government and non-government services 4.4 Create diverse places and spaces where people can enjoy a variety of lifestyles with high levels of amenity
Corporate Business Plan	Optimise City Services – Regulatory and Legal	6.8 Provide services and advice to the community and all stakeholders to comply with statutory obligations to achieve a healthy community and environment

COMMUNITY ENGAGEMENT:

There are no community engagement implications as a result of this report. Feedback has been received from the Department of Health and incorporated into the Plan. The Plan provides a process and a framework for where, when and how mosquito and midge are to be monitored and recorded, and complaints assessed and responded to using a consistent and comprehensive program.

RISK IMPLICATIONS:

The risk implications in relation to this proposal are as follows:

Risk Event	Mosquito and midge populations not managed resulting in a mosquito-borne virus outbreak
Risk Theme	Inadequate environmental management
Risk Effect/Impact	People Health
Risk Assessment Context	Operational and Project
Consequence	Minor
Likelihood	Possible
Rating (before treatment)	Medium
Risk Treatment in place	Reduce (Mitigate the risk)
Response to risk treatment required/in place	Implement the actions of the Plan
Rating (after treatment)	Low

14.1 THE CITY OF KWINANA INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

COUNCIL DECISION

281

MOVED CR S LEE

SECONDED CR D WOOD

That Council adopt the Integrated Strategic Mosquito and Midge Management Plan for the City of Kwinana as detailed in Attachment A.

**CARRIED
8/0**

CITY OF KWINANA INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

Version Date: 2
Document No: D18/33248

Initially prepared by:
RANKINE MOSQUITO AND MIDGE MANAGEMENT
[ABN: 23 684 573 524]

PO BOX 138 NORTH FREMANTLE W.A. 6159
M: 0447 366 460
E: admin@rankinemosquitomanagement.com



Amended and reviewed by:
CITY OF KWINANA ENVIRONMENTAL HEALTH
CNR GILMORE AVE & SULPHUR RD WA 6966

T: 08 9439 0200
E: admin@kwinana.wa.gov.au



STATEMENT OF LIMITATIONS

Scope of Services

This report has been prepared in accordance with the scope of work set out in the contract, or as otherwise agreed, between the Client and *Rankine Mosquito and Midge Management (RMM)*.

Reliance on Data

In preparing the report, *RMM* has relied upon data, surveys, analyses, designs, plans and other information provided by the Client and other individuals and organisations, most of which are referred to in the report ("the data"). Except as otherwise stated in the report, *RMM* has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report ("conclusions") are based in whole or in part on the data, those conclusions are contingent upon the accuracy and completeness of the data. *RMM* will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to *RMM*.

Environmental Conclusions

Within the limitations imposed by the scope of work, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted practices and using a degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. No other warranty, expressed or implied, is made.

Report for Benefit of Client

The report has been prepared for the benefit of the Client and no other party. *RMM* assumes no responsibility and will not be liable to any other person or organisation for or in relation to any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report (including without limitation matters arising from any negligent act or omission of *RMM* or for any loss or damage suffered by any other party relying upon the matters dealt with or conclusions expressed in the report). Other parties should not rely upon the report or the accuracy or completeness of any conclusions and should make their own enquiries and obtain independent advice in relation to such matters.

DOCUMENT STATUS

REVISION CONTROL:			
DOCUMENT TITLE City of Kwinana Integrated Strategic Mosquito and Midge Management Plan			
FILE NAME	VERSION	ISSUE DATE	ISSUED TO
TOK-04_02	V1 - Draft	11/09/2016	City of Kwinana
D18/33248	V2 – In house review and amendments	5/09/2018	City of Kwinana



**Rankine Mosquito and midge management is a member of
The Mosquito Control Association of Australia (MCAA)**

TABLE OF CONTENTS

1	INTRODUCTION	3
1.1	Background	3
1.2	Aim and Objectives	4
1.3	Guiding Documents	4
1.4	Strategic Implications	5
1.5	Demographics	6
2.	STATUTORY FRAMEWORK	7
2.1	<i>Public Health Act 2016</i>	7
2.2	<i>Planning and Development Act 2005</i>	7
3	MOSQUITO AND MIDGE BIOLOGY AND ECOLOGY	11
3.1	Mosquito Biology and Ecology	11
3.1.1	Mosquito Lifecycle	11
3.1.2	Eggs	11
3.1.3	Larvae	12
3.1.4	Pupae	12
3.1.5	Adults	12
3.1.6	Habitats	13
3.1.7	Temperature	13
3.1.8	Rainfall	13
3.1.9	Wind	14
3.1.10	Dispersal	14
3.2	Midge Biology and Ecology	17
3.2.1	Midge Lifecycle	17
3.2.2	Eggs	17
3.2.3	Larvae	17
3.2.4	Pupae	17
3.2.5	Adults	17
3.2.6	Habitats	18
3.2.7	Dispersal	18
4	EXISTING ENVIRONMENT	19
4.1	Breeding Habitats and Environmental Conditions	19
4.2	Historical Monitoring Data	20
4.2.1	Summary of Mosquito Monitoring Sites	20
4.3	Ground Survey Assessment	21
4.4	Landowner Responsibility	21
5	NUISANCE AND DISEASE RISK	22
5.1	Larval Monitoring Results	22
5.2	Adult Trap Results	22
5.3	Nuisance Complaints	24
5.4	Acquired Cases of Mosquito-borne Disease	24
5.5	Virus Isolation Data	25
6	MONITORING	26

6.1	Proposed Monitoring Sites	26
6.1.1	Proposed Mosquito Monitoring Sites	26
6.1.2	Proposed Midge Monitoring Sites.....	26
6.2	Ongoing Monitoring Program (OMP).....	29
6.2.1	Environmental Data	29
6.2.2	Adult Trapping	29
6.2.3	Larval Monitoring.....	29
6.2.4	Drains, Bubble-up Pits and Road-side Gullies	30
7	CONTROL OPTIONS/STRATEGIES	31
7.1	Physical Strategies.....	33
7.1.1	Drainage Systems	33
7.1.2	Constructed Wetlands	34
7.1.3	Landscaping	36
7.1.4	Backyard Complaints and Swimming Pools	37
7.1.5	Built Form	37
7.1.6	Other Physical Controls.....	37
7.2	Chemical Strategies	38
7.2.1	Larviciding	38
7.2.2	Adulticiding	40
7.2.3	Chemical/Nutrient Reduction.....	41
7.3	Biological Strategies.....	42
7.4	Cultural Strategies.....	42
8	DOCUMENTATION	43
9	STAKEHOLDER ENGAGEMENT.....	44
9.1	Internal Stakeholders	44
9.1.1	City of Kwinana Staff	44
9.1.2	Environmental Health Department	44
9.1.3	Planning Department.....	44
9.1.4	Other Departments	44
9.2	External Stakeholders	45
9.2.1	Environmental Agencies.....	45
9.2.2	Continuous Local Authorities Group (CLAG).....	45
9.2.3	Land Developers	45
9.2.4	City Residents and Visitors.....	46
10	STAFF TRAINING	47
11	PROGRAM FUNDING	48
12	REPORTING	49
13	REVIEW.....	50
14	ACTION PLAN	51
15	REFERENCES	56

LIST OF TABLES

TABLE 1	Statutory Framework relating to Mosquito and Midge Management in Western Australia
TABLE 2	Major Breeding Habitat Characteristics for Mosquito Species Trapped in the City of Kwinana
TABLE 3	Highest Larval Density at the Two Larval Monitoring Sites (2011-2016)
TABLE 4	Attack rates (cases per 100,000 population) of Ross River Virus comparison between Kwinana and Perth Metropolitan
TABLE 5	Proposed Mosquito Monitoring Sites
TABLE 6	Chironomid Midge and Mosquito Risk Assessment Matrix
TABLE 7	Action Plan

LIST OF CHARTS

CHART 1	City of Kwinana Forecast Population Growth (2018-2036)
CHART 2	Average Number of Mosquitoes Caught per Trap (2011-2017)
CHART 3	Cases of Ross River Virus in Kwinana vs Metropolitan WA (2008-2018)

LIST OF PLATES

PLATE 1	Mosquito Life Cycle
PLATE 2	Chironomidae (Midge) Life Cycle
PLATE 3	Proposed Mosquito Monitoring Sites
PLATE 4	Hierarchy of Risk Control

LIST OF APPENDICES

APPENDIX 1	Existing Environment
APPENDIX 2	Historical Mosquito Monitoring Data
APPENDIX 3	Register of Developers' Mosquito and Midge Management Plans
APPENDIX 4	Standard Operational Procedures
APPENDIX 5	Data Sheets
APPENDIX 6	Signed Memorandum of Understanding for CLAG

ABBREVIATIONS

RRV	Ross River Virus
BFV	Barmah Forest Virus
MVE	Murray Valley Encephalitis
DoH	Western Australian Department of Health
ISMMMP	Integrated Strategic Mosquito and Midge Management Plan
GIS	Geographic Information System
SOPs	Standard Operating Procedures
CLAG	Contiguous Local Authorities Group
TPS	Town Planning Scheme
LGA	Local Government Authority
EVS/CO₂	Encephalitis Vector Survey/ Carbon Dioxide
DBCA	Department of Biodiversity, Conservation and Attractions
EPA	Environmental Protection Authority
WAPC	Western Australian Planning Commission
DoP	Department of Planning
POS	Public Open Space
MCAC	Mosquito Control Advisory Committee

DEFINITIONS

Mosquito	A small flying insect of the family Culicidae. The females have a long proboscis adapted for piercing the skin of humans and animals to suck their blood.
Midge	A small two-winged fly that forms swarms and breeds near water or marshy areas. Also known as Chironomidae and non-biting midge.
EVS/CO₂	A mosquito trap outfitted with a light to attract mosquitoes.
Nuisance	An act or thing which causes inconvenience or annoyance.
Threshold	The level or amount before a control strategy is implemented.
RRV	Ross River Virus, a virus transmitted to humans through the bite of mosquitoes.
Larvicide	Biological or chemical agent to kill mosquitoes or midges in the innocuous larval stage before the adults develop and disperse.
Adulticide	Insecticide used to kill adult mosquitoes.
CLAG	Contiguous Local Authorities Group, comprised of one or more local governments that share a common mosquito problem, usually in the form of natural or man-made habitat that breed mosquitoes which subsequently impact on surrounding communities.
Monitoring	The collection of data by various methods for the purpose of understanding natural systems and features, evaluating the impacts of development proposals on such systems, and assessing the performance of mitigation measures.

1 INTRODUCTION

1.1 Background

The City of Kwinana (the City) is situated in Perth's outer southern suburbs between 25 km and 37 km south of the Perth CBD and covers an area of approximately 120 km. The City is bounded to the north by the City of Cockburn, Shire of Serpentine-Jarrahdale to the east and City of Rockingham to the south and Cockburn Sound to the west.

Ross River virus (RRV) and Barmah Forest virus (BFV) are quite separate viruses but belong to a genus (group) of viruses classified as alphaviruses. The capacity of certain mosquito species to carry disease are influenced by environmental and seasonal factors. Subsequently the risk of getting mosquito-borne disease varies with the season, rainfall events, location, type of mosquito species, presence of vertebrate hosts near breeding areas, and duration of exposure people have to mosquitoes.

The Western Australian Department of Health (DoH) carries out research into mosquito disease incidence and identification of vector species. The Department has identified several species of mosquitoes known to carry the RRV & BFV, which occur in fresh and brackish water habitats. *Aedes camptorhynchus* (Southern saltmarsh mosquito) and *Aedes vigilax* (Summer saltmarsh mosquito), both considered vectors of Ross River virus (RRV), commonly breed in coastal wetlands, *Aedes camptorhynchus* may also breed in temporary fresh groundwater sites. Other species that are known to be disease vectors are *Aedes notoscriptus* (Container mosquito) (RRV), *Culex annulirostris* (Common banded mosquito) (RRV, Barmah Forest virus (BFV) and Murray Valley encephalitis (MVE), Kunjin virus), *Coquillettidia* sp. *near linealis* (RRV and BFV).

A chain of fresh water swamps and drains located on a north to south axis throughout the City are considered to be a primary source of mosquito breeding. The City's adult trapping records revealed that disease vector mosquitoes do breed at those fresh water swamps when conditions allow. *Aedes alboannulatus*, *Aedes camptorhynchus*, *Culex globocoxitus*, *Culex annulirostris*, *Anopheles annulipes* and *Culex quinquefasciatus* been trapped in moderate to large numbers

Freshwater aquatic midges are mosquito-like small flies or Diptera belonging to the families Chironomidae and Chaoboridae. Midge eggs, larva, and pupa are often found in wetlands and stormwater retention ponds where the larvae thrive in low oxygen zones. Adult midges do not bite or sting, suck blood, or carry diseases and are not vectors of disease. However, due to the fact that they form dense swarms, they can become a nuisance when they emerge from waterbodies in large numbers, primarily in the warm summer months (Gioeli *et al.*, 2015) impacting surrounding resident's amenity.

Urban expansion since 2006 has predominantly been located within close proximity to wetlands. Residents living closer to wetlands are at risk of being affected by mosquito-borne disease and loss of amenity. Some of the mosquito species identified can fly between three to ten kilometres in search of a blood meal from vertebrate hosts.

This Integrated Strategic Mosquito and Midge Management Plan (ISMMMP) provides an overall approach to mosquito and midge control to ensure that each known or potential breeding site is evaluated on its merits and all possible control options are considered for implementation.

1.2 Aim and Objectives

The aim of this ISMMMP is to minimise nuisance and disease risks associated with mosquitoes and midges upon the City's residents and visitors.

The principal objectives include:

- To maintain databases of known and new mosquito and midge breeding areas.
- To ensure that mosquito and midge numbers are effectively managed through on-going monitoring and treatment programs without affecting existing environmental values.
- To require land owners of new developments to take responsibility of mosquito and midge management until common infrastructure is transferred to the ownership of the City.
- To ensure funding is available for on-going mosquito and midge management.
- To continually investigate sources of locally acquired cases of mosquito-borne diseases and respond to nuisance complaints.
- To maintain collaboration with the Department of Health (DoH) and Contiguous Local Authorities Group (CLAG) to improve mosquito and midge management in the region.
- To design out mosquito breeding habitats in new and existing urban development and infrastructure.
- To increase community awareness of the City's mosquito and midge management strategies and educate the public on effective protection practices.
- To ensure ongoing review and assessment of the management program.

1.3 Guiding Documents

The following documents have been used as guidance in the development of the ISMMMP:

- *A guide to developing a mosquito and midge management plan for Local Government* (Department of Health, 2014)
- *Western Australian Department of Health Australian Mosquito Control Manual* (Whelan, 2011)
- *Mosquito and midge management Manual* (Department of Health Western Australia, 2017)
- *Integrated Midge Control Strategy* (City of Cockburn, 2007)
- *Chironomid Midge and Mosquito Risk Assessment Guide for Constructed Water Bodies* (Midge Control Group of Western Australia, 2011)

1.4 Strategic Implications

The ISMMMP has been identified as an important strategy under the City's Strategic Community Plan 2017-2027, the Corporate Business Plan 2018-2023 and the Public Health Plan 2015-2018.

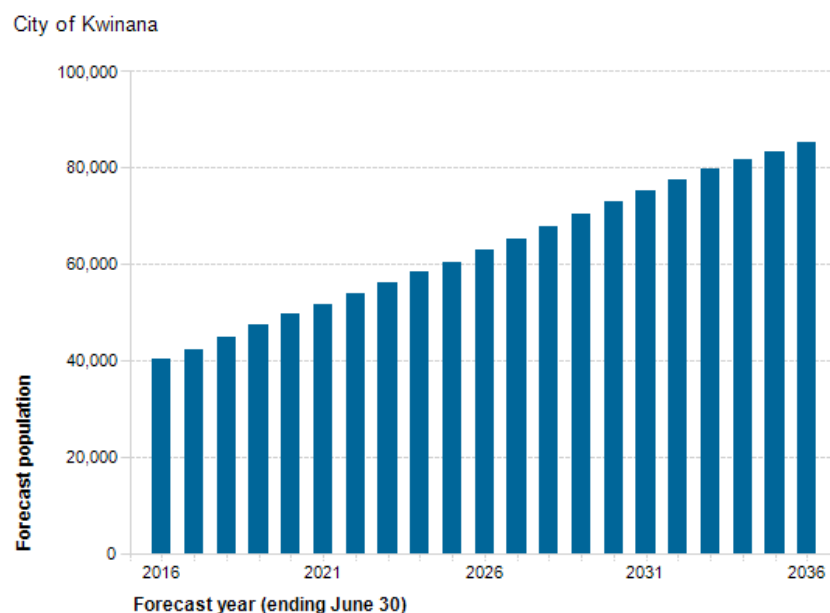
Plan	Outcome	Objective	Strategy
Strategic Community Plan	It's all here (Infrastructure)	4.3 "Ensure the Kwinana community is well serviced by government and non-government services" 4.4: "Create diverse places and spaces where people can enjoy a variety of lifestyles with high levels of amenity"	Environmental Health Team Business Plan
Corporate Business Plan	Optimise City Services - Regulatory and Legal	6.8 "Provide services and advice to the community and all stakeholders to comply with statutory obligations to achieve a healthy community and environment"	6.8.03: To implement a Mosquito and Midge Management Plan for Kwinana
Public Health Plan	Healthy People – Rich in Spirit	"Stimulate community awareness of communicable and infectious diseases and reduce incident rates"	Taking action, facilitating planning and/or creating policy, which influences environments, which minimise spread of disease.

1.5 Demographics

The City is located on the Swan Coastal Plain and due to its accessibility to transport infrastructure connecting the City with the Perth CBD, in addition to the presence of the Kwinana Industrial Precinct as a major employment precinct within the municipality, there is an increasing demand for residential developments to be constructed within the City. In terms of land use zonings, Local Planning Scheme (LPS) No. 2 identifies residential, industrial, and extensive rural and rural-residential zones as well as a major retail and commercial centre at the Kwinana City Centre identified in LPS No. 3 (Town Centre). The Kwinana Industrial Area (KIA) that was developed through the 1950s and 1960s, attracted significant numbers of overseas migrants settling in the suburbs of Medina and Calista. A boom in industrial development at the KIA between 1966 and 1971 witnessed a doubling of the City's population. Today, the KIA provides for one of Perth's largest employment areas. In the 1990s, new residential areas in Leda and Parmelia were developed followed by Bertram. New residential developments are expected to increase further in the suburbs of Wandi, Anketell and Wellard (East and West) (Forecast.id, 2018).

Chart 1 provides forecast population growth for the City for the period 2016 -2036 (Forecast.id, 2018). From a base population of 44,791 (2018), it is forecast that by 2036 the City's population will be 85,158; representing a total percentage change (2018–2036) of 90.12% (Forecast.id, 2018).

Forecast population



Population and household forecasts, 2016 to 2036, prepared by .id, December 2017.

.id the population experts

CHART 1: City of Kwinana Forecast Population Growth (2016-2036)
(Source: Forecast.id 2018)

2. STATUTORY FRAMEWORK

2.1 *Public Health Act 2016*

Under the *Public Health Act 2016* and Regulations, the Health Department of Western Australia (DoH) has a state-wide charter to protect public health. The former *Health Act 1911* (which is now known as the *Health (Miscellaneous Provisions) Act 1911*), and all regulations made under the former *Health Act 1911*, will continue to be the main enforcement tool, until the provisions of the *Public Health Act 2016* (the Act) are proclaimed over the coming years.

The Act's relevance to local government is described in Part 2 Division 2, whereby local government is authorised and directed to carry out the provisions of the Act. Part 3 deals with the general public health duty to ensure all persons take reasonable and practical steps to prevent and minimise any harm to public health. Part 4 of the Act provides a broad and flexible offence framework that is capable of capturing both known and emerging public health risks.

Part 5 of the Act, which is yet to be enacted, requires that each local government authority (LGA) prepare a Local Public Health Plan. Part 9 of the Act deals with the monitoring of notifiable infectious diseases and would therefore include the threat to public health from mosquito-borne diseases.

The City is committed to protecting, promoting and enhancing the health and wellbeing of its residents and visitors by actively playing a key role in the management of mosquitoes through the City's *Public Health Plan 2015-2018*, linked to the City's *Strategic Community Plan*.

As part of this responsibility, and to support the application of the Act, funding is made available to LGAs to implement management and control strategies and to maintain the Mosquito Control Advisory Committee (MCAC), which was formed in 1991 from a Cabinet-approved recommendation to oversee the provisions of the DoH funding to LGAs with recognised mosquito-borne disease problems (Department of Health, 2009). The MCAC is a multi-agency committee with members from DoH, Local Government and other government agencies.

2.2 *Planning and Development Act 2005*

The purpose of the *Planning and Development Act 2005* is to provide for an efficient and effective land-use planning system in Western Australia and to promote the sustainable use and development of land. With respect to mosquito management through the planning approvals process, a Local Structure Plan may be required to be lodged with the City and approved by the WAPC prior to commencement of development. As part of the Local Structure Plan process, proponents may be required to prepare a Mosquito and Midge Management Strategy.

Through the subdivision application process, the Department of Planning, Lands and Heritage (DoPLH) refers subdivision applications to a range of State Government agencies seeking their comments and recommendations with respect to the imposition of conditions on the proposed subdivision.

The WAPC has the power to impose a memorial on land titles that are newly created through the process of subdivision and are potentially affected by a relatively permanent hazard notifying prospective purchasers of the potential hazard.

The WAPC also has the power to impose conditions of approval on any subdivision proposal considered to be located in a high risk area. Conditions may also be imposed by the local government through the development approval process for properties affected by mosquitoes and midges.

The planning approvals process is also a mechanism through which the proposed development may be referred and potentially formally assessed by the Environmental Protection Authority (EPA) pursuant to Part IV of the *Environmental Protection Act 1986*.

Table 1 highlights the statutory and policy framework relating to mosquito and midge management in Western Australia.

TABLE 1: STATUTORY AND POLICY FRAMEWORK RELATING TO MOSQUITO AND MIDGE MANAGEMENT IN WESTERN AUSTRALIA

Acts, statutes and functions	Legislative mechanisms/ activities	Administering agency/ agencies
<i>Public Health Act 2016</i> and proposed new Subsidiary legislation - <i>Pest and Vector Regulations</i>	<ul style="list-style-type: none"> General public health duty Management of infectious diseases and related conditions capable of responding to both known and emerging risks to public health To protect persons from the public health risks from biting insects and pesticides used to control pest numbers 	DoH City of Kwinana
Interim State Public Health Plan for Western Australia	<ul style="list-style-type: none"> To prevent and control communicable diseases including mosquito-borne diseases as a priority 	DoH
City of Kwinana Public Health Plan (linked to the City of Kwinana Strategic Community Plan)	<ul style="list-style-type: none"> To protect, promote and enhance the health and wellbeing of its residents and visitors Stimulate community awareness of communicable and infectious disease Reduce incidence rates through a mosquito and midge management plan 	City of Kwinana
<i>Planning and Development Act 2005</i>	<ul style="list-style-type: none"> State planning policies Region planning schemes Local planning schemes Subdivision and development control 	WA Planning Commission DoP City of Kwinana
<i>Transfer of Lands Act 1893</i>	<ul style="list-style-type: none"> Impose notifications or memorials on land titles to inform risks of mosquitoes and mosquito-borne disease 	Department of Lands
<i>Environmental Protection Act 1986 and Environmental Protection Regulations 2004</i>	<ul style="list-style-type: none"> Function of the Environmental Protection Authority (Part II) Development of policies for environmental protection (Part III) Environmental impact assessment (Part IV) Regulation of pollution, environmental harm and clearing (Part V) 	DWER EPA
<i>Environment Protection and Biodiversity Conservation Act 1999</i>	<ul style="list-style-type: none"> Protection and manage matters of national environmental significance Regulations outlining the Australian Ramsar management principles 	Department of Environment
<i>Wildlife Conservation Act 1950</i>	<ul style="list-style-type: none"> Protection of native flora and fauna 	Commonwealth Department of Environment and Energy

CITY OF KWINANA
INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

Acts, statues and functions	Legislative mechanisms/ activities	Administering agency/ agencies
Environmental Protection Authority Position Statement No. 4	<ul style="list-style-type: none"> To protect the environmental values and functions of wetlands in Western Australia To protect, sustain and, where possible, restore the biological diversity of wetland habitats in Western Australia To protect the environmental quality of the wetland ecosystems in Western Australia through sound management and ecologically sustainable development principles, regardless of land use or activity (Environmental Protection Authority, 2004) 	Department of Environment
Environmental Protection (Peel Inlet-Harvey Estuary) Policy 1990	<ul style="list-style-type: none"> To reduce input of nutrients, particularly phosphorus, into the Peel-Harvey Estuary through various measures 	Department of Environment City of Kwinana
Environmental Protection (Cockburn Sound) Policy 2005	<ul style="list-style-type: none"> To protect and improve marine waters of Cockburn Sound by minimising contaminant inputs, particularly nitrogen from diffuse land use sources 	Department of Environment City of Kwinana
<i>Health (Pesticides) Regulations 2011</i>	<ul style="list-style-type: none"> Control of pest management activities Licensing of pest management technicians Possession, use and disposal of pesticides 	DoH City of Kwinana
<i>Aboriginal Heritage Act 1972</i>	<ul style="list-style-type: none"> Consider of Aboriginal Heritage for proposals to undertake physical modification of mosquito breeding Protects and preserves any site or object which is of significance to Aboriginal people 	Department of Aboriginal Affairs Department of Planning, Lands and Heritage
<i>Local Government Act 1995 and City of Kwinana Urban and Environment Nuisance Local Law</i>	<ul style="list-style-type: none"> Ensure land remains tidy and free from overgrown vegetation Containment of stormwater and rainwater 	City of Kwinana
<i>Local Government Act 1995 and City of Kwinana Activities Thoroughfares Local Law</i>	<ul style="list-style-type: none"> Maintain verge treatments Permit required for vegetation clearance and revegetation 	City of Kwinana

3 MOSQUITO AND MIDGE BIOLOGY AND ECOLOGY

In order to understand the complexities of the transmission of disease and nuisance insect problems, and the specific methods of control that are appropriate in different situations, the life cycles and habitat preferences of the mosquito and midges need to be understood (Russell, 2009).

3.1 Mosquito Biology and Ecology

3.1.1 Mosquito Lifecycle

The mosquito life cycle identified on **Plate 1** consists of four distinct stages; egg, larva, pupa and adult. The larval and pupal stages of the mosquito life cycle are aquatic, feeding on microscopic organisms, decaying vegetation or bottom detritus, however it is only the adult mosquito that is regarded as a pest. Adult female mosquitoes require a blood meal in order to obtain the necessary protein required to produce a large numbers of eggs (usually between 100–500 eggs).

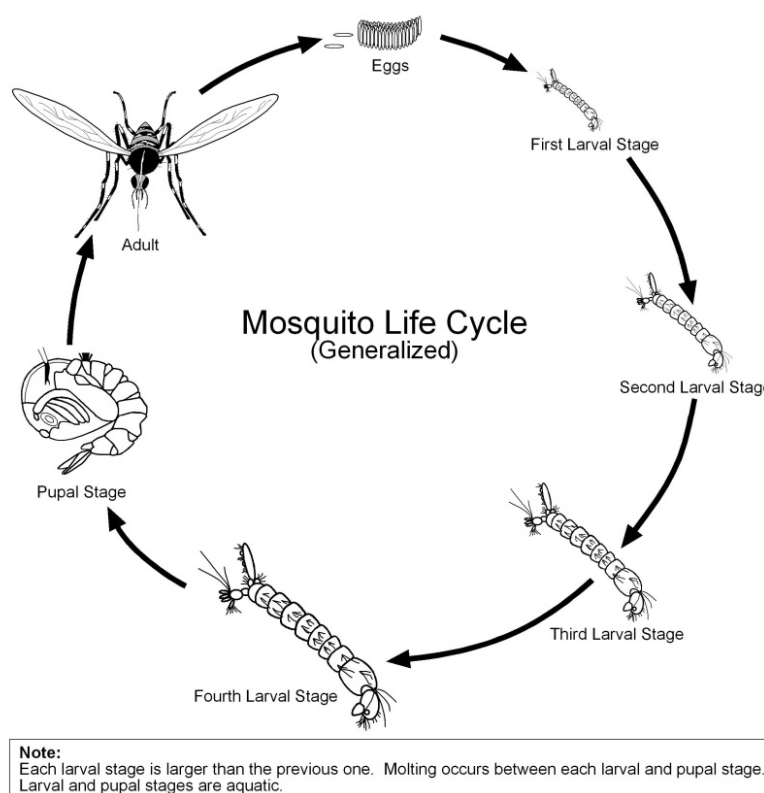


PLATE 1: Mosquito Life Cycle (Source: Purdue, 2016)

3.1.2 Eggs

An adult female mosquito may lay several hundred eggs on or around water bodies, depending upon the species, and all require water for their complete development. The eggs of the *Anopheles* species are laid singly on the surface of the water and are not resistant to desiccation and therefore will not be viable if the water body dries out. *Anopheles* species are therefore generally associated with permanent or semi-permanent water bodies.

The eggs of the *Culex* species are laid in rafts of up to 200 eggs which float on the water surface. Again they are not resistant to desiccation and, as with *Anopheles* species, are generally found in permanent or semi-permanent bodies of water. The eggs of the *Aedes* species are laid singly on the damp edges above the receding waterline. They are resistant to desiccation and therefore the eggs can remain viable for a considerable period of time until the area is inundated again through rainfall or tidal action. *Aedes* mosquitoes are able to colonise a wide variety of breeding sites from temporary to semi-permanent or permanent sites which have fluctuations in water level. Another important aspect of the biology of *Aedes* species is that not all of the eggs will hatch at the same time. Some will hatch a few days after the initial batch and a proportion will not hatch until the site is inundated again at a later stage.

3.1.3 Larvae

The egg hatches out into a larva that is entirely aquatic and goes through four developmental stages (known as instars) with the average larval development time being between 5 - 7 days. Larva feed on microscopic organisms in the water or on decaying vegetation with some species habitually feeding at the water surface (e.g. *Anopheles*), some in the middle range below the surface (e.g. *Culex*) and others typically feed on the bottom (e.g. *Aedes*).

The rate of larval growth or development through the larval stages is dependent upon a number of environmental factors including temperature, larval density within the breeding site and the availability of food. Again, different species exhibit varied rates of development depending upon ambient conditions. During summer when environmental conditions are most favourable *Anopheles* and *Culex* species may complete larval development within 7-10 days, while *Aedes* species may take only 4-5 days. In temperate areas of Australia (such as the South West region) exposure to very low or extremely high (40°C+) temperatures is often lethal to mosquito larvae.

3.1.4 Pupae

After the larva has developed to the fourth instar stage and completed its growth within this stage, it moults and develops into a pupa. The pupa is still mobile but has ceased feeding at this stage. The pupa will generally complete its development in water; however it does have the ability to survive in a moist environment if the breeding site dries out before the adult mosquito has emerged. The duration of the pupal stage is dependent upon temperature but is generally in the order of 2-3 days for *Anopheles*, *Aedes* and *Culex* species, and 6-9 days for *Coquillettidia* species. The adult mosquito develops within the casing of the pupa.

3.1.5 Adults

The adult mosquito rests on the water surface after emerging from the pupal casing to allow its cuticle to harden. Males will generally emerge before the females and generally have a shorter life-span. Upon emergence, the first meal for both sexes is a carbohydrate meal of nectar or plant juices. Mating will then take place usually near the breeding site and often at dusk. Females only mate once with the sperm packet serving to fertilise all batches of eggs that she produces. In order for the development of the eggs to occur, the female requires protein which may be provided either from nutritional reserves from the larval stage or from blood. While males do not bite humans or feed on blood from any source, the females will seek a blood meal embarking on an ongoing cycle of feeding, resting, egg development and egg-laying.

The life span of a female mosquito can vary significantly with adults reaching sexual maturity in one or two days. In a natural environment, a female mosquito will generally survive for no more than 3-4 weeks. However with vector species, the older the female the greater the concern with regard to disease transmission because there will be a greater chance that she will have taken an infected blood meal and be able to pass it on to the next host animal.

3.1.6 Habitats

The majority of mosquito species are active for only part of the year, and this is often determined by the seasonal availability of breeding sites. Regional and local weather will generally have the greatest influence on the production of mosquitoes for a given area over short periods of time (Whelan, 2009) with most mosquito species displaying a pattern of seasonal abundance with fluctuations associated with meteorological conditions (Russell, 2009). Mosquito breeding requires optimal weather conditions with rainfall, temperature and humidity being major factors in their breeding lifecycles, often dictating how long standing water will support breeding, how quickly the breeding cycle will be completed and how active the emergent adults will become. Once the adults have emerged, temperature, humidity and wind speed and direction will all influence how far and wide adult mosquitoes will travel.

3.1.7 Temperature

The time taken for development from egg to adult varies greatly with environmental variables, particularly temperature (Whelan, 2009) which plays an important role in relation to adult mosquitoes where extremes of temperature are detrimental to adult populations reducing their number to below nuisance levels quickly, while milder temperatures assist their survival and dispersal (Lindsay, 2011). Some species may take weeks to develop, or even enter 'larval hibernation' under winter conditions while the same species may take 4-5 days to develop from egg to adult during the summer (Lindsay, 2011). *Anopheles* and *Culex* species larvae respond to favourable summer conditions and may complete development within 7-10 days while *Aedes* species may take only 4-5 days, *Aedes vigilax* breeding is known to be temperature limited with breeding in the south-west of Western Australia being restricted to the summer months (Lindsay, 2011) with water temperatures of between 20°C – 25°C being favourable to most mosquito species (Russell, 2009).

Temperature measurements are therefore most useful when determining generation times of individual species and is often a key factor in determining treatment times with respect to the application of larvicide (Australian Mosquito Control Association Inc., 2008).

3.1.8 Rainfall

The amount of rainfall received in any given area is an important determinant in providing suitable habitat for mosquito breeding. Wind speed and direction may help to explain why a pest species is collected in an area remote from a breeding site. This is particularly important for the *Aedes* vector species who have known flight ranges in search of a blood meal in excess of 6 km for most *Aedes* species other than *Aedes vigilax* which has an even larger range.

With a breeding cycle of two-four weeks, the length of time that the surface expression of groundwater is found on-site is an important determinant in increasing the duration of breeding habitat availability for some species of mosquito (Lindsay, 2011). For example, *Aedes camptorhynchus* will breed in a wide variety of temporary swamps, ground pools and coastal brackish water/tidal saltmarsh areas over the autumn-early summer period

being especially abundant during the months of June-August and a rapid rise in the numbers of *Aedes* species can be expected soon after rainfall or high tides that top up ground pools (Lindsay, 2011).

3.1.9 Wind

Wind is an important determinant in reducing the likelihood of mosquito in wetlands with expanses of open water as increased wave action on the water surface will reduce the insect's survival prospect and prevent mosquito breeding by disrupting the larvae and pupae at the water surface (Midge Research Group of Western Australia, 2007). Wind action can also prevent the spread and hinder the growth of algae, aquatic floating ferns and duck weed that offer shelter and protection to larvae from both wave action and aquatic predators (Australian Mosquito Control Association, 2008).

Mosquitoes are often most prolific in very temporary water bodies; however, within a particular habitat, other factors such as sunlight or shade, the presence or absence of emergent vegetation and predators as well as prevailing winds may also be important factors determining breeding habitat formation.

In total, 14 species of mosquito have been consistently represented in the adult monitoring traps conducted during the course of the monitoring program undertaken by the City.

Table 2 summarises the breeding habitat characteristics and the pest and vector status (i.e. whether the species is a known or potential carrier of RRV, BFV, MVE or Kunjin) of each of the species.

3.1.10 Dispersal

Many mosquitoes produce only one generation per year, while others can have two to five or more. Under favourable environmental conditions and by having a high reproductive potential and a short life cycle, the abundance of mosquitoes can increase reaching nuisance levels at particular locations in a very short space of time.

Dispersal is therefore an important factor in mosquito ecology and the vector management decision-making process. While many species typically move relatively short distances (50-100m) from their larval habitats (providing appropriate blood sources are available in the vicinity), some species have a range of 1-5 km. Some species are known to exhibit migratory behaviour such as *Aedes vigilax* known to be able to disperse 100 km (often downwind) associated with peak adult activity.

TABLE 2: MAJOR BREEDING HABITAT CHARACTERISTICS FOR THE MOSQUITO SPECIES TRAPPED IN THE CITY OF KWINANA

Species	Breeding Habitat Characteristics	Pest	Vector Risk	Dispersal Capabilities	Active Season
<i>Aedes alboannulatus</i>	Ground pools and creekline rockpools.	✓	No	Low	Winter and Spring
<i>Aedes camptorhynchus</i>	Brackish to fresh ground pools and tidal saltmarsh areas.	✓	RRV, BFV	3-5km from breeding site	Winter, Spring and early Summer
<i>Aedes clelandi</i>	Breeds in variety of freshwater sites often devoid of vegetation.		RRV, BFV	1-3km	August to October
<i>Aedes hesperonotius</i>	Generally appears to breed mainly in tea-tree swamps.		RRV	1-3km	August to October
<i>Aedes notoscriptus</i>	Tree holes, rock pools, artificial containers (domestic water supply, pot plants), storm water drains.	✓	RRV, BFV in humans and heartworm in dogs.	0.4km	Year round
<i>Aedes ratcliffei</i>	Fresh groundwater pools with or without vegetation, often in shaded swamps with high tannin content.	✓	RRV, BFV	1km	September to November
<i>Aedes vigilax</i>	Temporary pools in coastal saltmarshes that flood during high tides or by rain and brackish swamps.	✓	RRV, BFV in humans and heartworm in dogs.	100km	October - April
<i>Anopheles annulipes</i>	Temporary and permanent pools, streams and along edges of wetlands, generally freshwater but also in polluted and brackish water. Will also use artificial containers.	rare	Potentially RRV but not considered an important vector.	Unknown	SW: All year, peak in Summer
<i>Coquillettidia sp. near linealis</i>	Freshwater in areas with dense emergent vegetation (<i>Typha orientalis</i>).	✓	Potential vector of RRV, BFV.	3km	Oct- Mar

CITY OF KWINANA
INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

Species	Breeding Habitat Characteristics	Pest	Vector Risk	Dispersal Capabilities	Active Season
<i>Culex annulirostris</i>	Shallow freshwater sites, also brackish and polluted waters, usually with vegetation. Breeding can be prolific in low-lying areas that hold water for a few weeks after heavy rain.	✓	Most important mosquito disease vector in Australia. Vector of RRV, BFV, Kunjin and MVe in humans and heartworm in dogs.	10km	Nov-March
<i>Culex australicus</i>	Freshwater pools, lagoons and grassy pools, occasionally brackish and polluted waters.		Yielded isolates of MVE. Does not generally bite humans.	No data	Spring to Autumn
<i>Culex globocoxitus</i>	Freshwater swamps and ground pools.		Yielded isolates of RRV and BFV. Does not generally bite humans.	No data	All year, peak season July to November
<i>Culex quinquefasciatus</i>	Many types of artificial environments near human habitation, containers and ground pools.	✓	Potentially RRV but shown to carry MVe.	Low	Year round, peak in Winter months
<i>Culiseta atra</i>	Freshwater species.		Not thought to bite humans.	No data	No data

Source: Russell (1996), Department of Health (2018) and University of Sydney (2018)

3.2 Midge Biology and Ecology

3.2.1 Midge Lifecycle

Midges have four main stages in their lifecycle: egg, larva, pupa and adult (refer to **Plate 2**). Of these stages, only the adult stage is terrestrial. Under optimum conditions (i.e. warm water temperatures and an abundance of food), the whole life cycle may be completed within approximately three weeks.

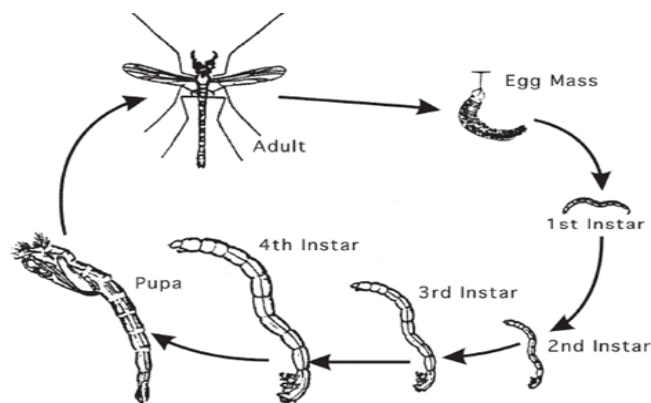


PLATE 2: Chironomidae (Midge) Life Cycle (Source: Walker, 1987)

3.2.2 Eggs

Each female lays only one gelatinous egg capsule, which may contain up to 3,000 eggs depending upon the species. Eggs are laid on the surface of the water in a wide range of aquatic habitats including wetlands, lakes and streams and sink to the bottom with hatching occurring between several days to one week later.

3.2.3 Larvae

After leaving the egg mass, larvae burrow into the sediment or construct small tubes in which they live enlarging their tubes as they grow, feeding on organic debris. Aquatic midge larvae are known as wrigglers or bloodworms (because some are bright red in colour resulting from an iron compound containing haemoglobin, which is in the midge's blood). The larval stage can take from less than two to seven weeks depending upon water temperature with larvae suspending their development during winter (Gioeli *et al.*, 2015).

3.2.4 Pupae

As the larvae grow, they develop into pupae and after three days they will actively swim to the surface of the water.

3.2.5 Adults

Upon reaching the surface of the water, the pupae hatch into winged adult midges. Adults mate in swarms soon after emerging and because they do not feed, will live for only three to five days.

3.2.6 Habitats

Midges are often associated with disturbed wetlands (where they breed) having highly elevated nutrient levels. This is due in part to the removal of natural fringing vegetation, which acts as a filter and removes much of the nutrients in surface water runoff and groundwater before they reach the wetlands. Nutrient enrichment from sources including septic tank leachate, fertilisers and detergents, promote algal blooms that form in spring and summer providing an increased source of food for midge larvae that prefer to feed on three main forms of algae: benthic (within sediments), phytoplankton and epiphytic. After a time-period, the algal blooms will collapse and the algae will sink to the bed of the wetland where they provide a rich food source for the larval midges living in the sediments.

Algal blooms also limit visibility thereby decreasing midge larvae predation. Low predator diversity can result from the combined effects of increased pollutants, low oxygen levels and decreased habitat diversity associated with the loss of native aquatic vegetation. These factors in combination enable midge populations to increase to nuisance proportions (Pinder *et al.*, 1992).

Undisturbed wetlands on the Swan Coastal Plain have low nutrient levels and complex food webs. The larval midges that feed on decaying organic matter serve an important role in these ecosystems as they clean up decomposing algae and other detritus. This recycles the nutrients present in the organic matter back into the water column where it can be re-used. Midge larval numbers are therefore limited by the availability of food and the presence of predators that feed upon them.

The long-term answer to midge management is to restore eutrophic and degraded wetlands to a condition whereby natural ecosystem balance re-occurs such that midge numbers are essentially controlled as part of an overall ecosystem balance (City of Cockburn, 2007). This management also applies to the construction and long-term maintenance of artificial wetlands. It is therefore important that the water quality in wetlands (natural and constructed) be maintained to limit the potential for midge breeding to take place.

3.2.7 Dispersal

Under favourable environmental conditions and by having a high reproductive potential and a short life cycle, several generations of midges will be produced throughout summer, resulting in mass emergences of adults. The abundance of midges can reach nuisance levels at particular locations in a very short space of time.

The emergence of large numbers of these nuisance midges may impact the amenity of the residents living around wetlands and stormwater retention ponds. Adult midges prefer to rest in shady areas during the day; in the absence of nearby vegetation they can often be found in large numbers under eaves and on patios and flyscreens of nearby residences. Midges can also find their way inside homes as residents enter and exit their homes.

4 EXISTING ENVIRONMENT

4.1 Breeding Habitats and Environmental Conditions

Local weather patterns and conditions play an important role in the ability for mosquitoes to sustain their breeding cycles. Significant weather events such as summer storms and tropical cyclones have the potential to produce spikes in mosquito abundance.

Mosquitoes have the ability to breed in a number of habitats dependent on the species, including:

- Saltmarsh – coastal. Saline or brackish;
- Freshwater – rivers, lakes, inland or coastal;
- Shallow flooded plains and grassland;
- Permanent or temporary lakes, ponds, drains, creeks etc.;
- Low-lying lands with standing water;
- Main and roadside drains;
- Constructed wetlands; and
- Domestic containers around the home including pot plant plates and trays, septic tanks, drains and gutters, water tanks, neglected swimming pools and ponds.

Appendix 2 provides a summary of the City's past climate data including rainfall, temperature and prevailing wind conditions as well as information on the wetlands, groundwater hydrology and vegetation characteristics.

4.2 Historical Monitoring Data

Rankine on behalf of the City has conducted mosquito monitoring since October 2006 until June 2017. The locations of both larval sampling and adult trapping with a brief analysis of the historical monitoring data for the period October 2006 to June 2017 is included in **Appendix 3**.

As the City has historically not received any complaints about midge nuisance and midges are not disease vectors, no midge larval monitoring has taken place.

4.2.1 Summary of Mosquito Monitoring Sites

4.2.1.1 Larvae

The City has conducted mosquito larval monitoring between 2009 and 2016 at the following sites:

Site 1: The Spectacles wetland.

Site 2: Kwinana (Peel) Main Drain Rowley Road Wandi.

4.2.1.2 Adult

From October 2006 until June 2017 the number and location of sites used for adult mosquito monitoring has varied as summarised in **Appendix 3**. Between 2011 and 2017, the adult monitoring sites were:

Site 1: Wandi Nature Reserve – located in bushland to the north of Jandakot Regional Park and north of De Haer Road, Anketell.

Site 2: The Spectacles – located in bushland surrounding the wetland.

Site 3: Woolcoot Road Wellard – located in the bushland surrounding the wetland to west of the road.

Site 4: Kwinana (Peel) Main Drain – located in bushland to the South of Rowley Road and bordering the drain.

Site 5: Clementi Road Mandogalup - located in the bushland area north of Anketell Road and east of Clementi Road, west of Mandogalup Swamp.

4.3 Ground Survey Assessment

A ground survey assessment and mapping of the potential mosquito breeding sites throughout the City was identified as a key objective of the scope of works.

Prior to undertaking the ground survey, a desktop survey of detailed aerial photographs (scale of 1:10000 and 1:5000) of the City and the DPCA's *Geomorphic Wetlands of the Swan Coastal Plains dataset* mapping (WA Atlas refer <https://www2.landgate.wa.gov.au/bmvf/app/waatlas/>) was undertaken to identify potential mosquito breeding sites.

The ground survey assessment was undertaken in July 2016. During the survey, the locations of potential breeding sites that were identified for assessment during the desktop survey or were found to be present during the course of the ground survey were recorded using a GPS unit for later mapping.

The location of each of the field observation points is shown on **Appendix 2** and mapped in the City's GIS program.

Due to the timing of the ground survey and the absence of rainfall within the weeks immediately preceding the survey, there were limited opportunities for mosquito larval dipping to be undertaken. In the few instances where freshwater was standing and accessible the larval dipping undertaken was not prospective. This is most likely due to the seasonality of the breeding cycle of the main vector species at that time of the year.

4.4 Landowner Responsibility

Through planning conditions on development approvals, land owners of new developments are required to provide a Mosquito and Midge Management Strategy to demonstrate adequate management of mosquito and midge breeding until common infrastructure is transferred to the ownership of the City. The City have kept a register of all approved mosquito and midge management plans. Adult trapping and larval monitoring sites of these developments will be included in the City's GIS program.

Several parks and reserves of four main developments are anticipated to be handed over to the City in the 2018/19 period. These developments include Living Edge in Wellard, Wellard Glen, Providence and Emerald North. This will potentially increase the number of sites requiring mosquito monitoring and management.

See **Appendix 3** for a list of all City-approved Mosquito and Midge Management Plans.

5 NUISANCE AND DISEASE RISK

5.1 Larval Monitoring Results

Larval monitoring had undertaken when standing water is present at The Spectacles wetland (Site 1) and the Kwinana Peel Main Drain in Wandi (Site 2). Wide variations in the number of larvae caught generally reflected the water level present at the time of monitoring which reflects the seasonality of the underlying groundwater table. **Table 3** show the overall findings for the two larval monitoring sites.

Larval density (defined as the number of mosquito larvae per square metre of water surface) is calculated using the following formula:

N – Number of larvae in sample

S – Surface area of scoop cm² ($\pi \times \text{radius}^2$)

Number of larvae per m² = $\frac{1000 \times N}{S}$

Table 3: Highest Larval Density at the Two Larval Monitoring Sites (2011-2016)

Site	Highest Larval Density (m ²)				
	2011/12	2012/13	2013/14	2014/15	2015/16
1	307	88	46	505	No data*
2	4211	127	3	1095	250

*No data as no monitoring was carried out due to the closure of The Spectacles Drive.

5.2 Adult Trap Results

14 species of adult mosquitoes were collected across the five monitoring sites with the average number of mosquitoes caught per EVS trap/per monitoring session being 183 adults between 2011-2017.

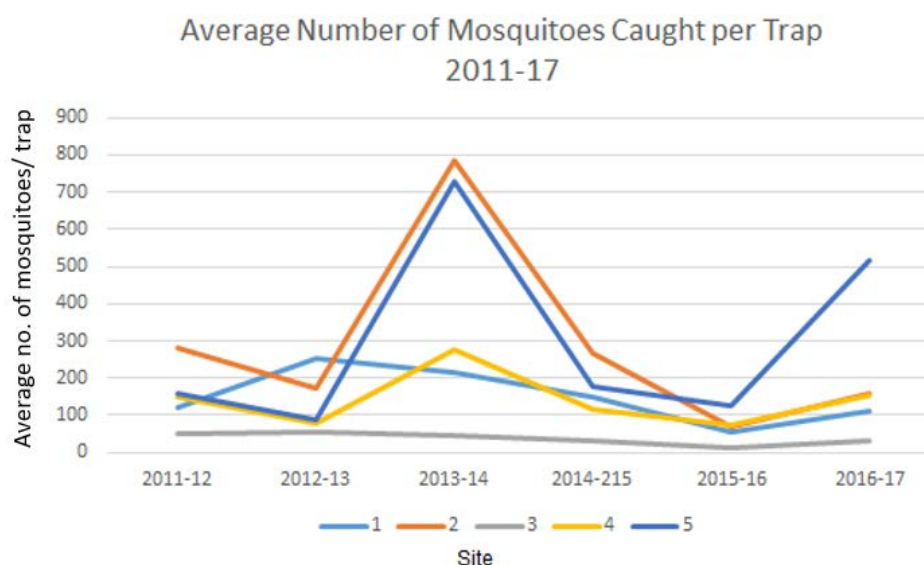


Chart 2: Average Number of Mosquitoes Caught per Trap (2011-2017)

Culex annulirostris was found to be the most dominant species and *Aedes alboannulatus*, *Culex australicus*, *Aedes notoscriptus*, *Anopheles annulipes* and *Culex globocoxitus* also found to be co-dominant species within some of the monitoring sites. The following information includes the preferred habitat and whether they are known to be nuisance and/or vector species.

Culex annulirostris (Common banded mosquito) is a freshwater species that will breed in a variety of habitats. This species will bite viciously both during the day and at night and has a flight range of up to 3 km. The species is considered to be the most important mosquito vector in Australia and is a known vector of RRV, a potential vector of BFV, Kunjin and MVe (Whelan, 2011), and is able to carry dog heartworm, it is probably a major vector of myxomatosis (Russell, 1996).

Aedes alboannulatus is a common species which breeds in a wide variety of freshwater habitats including rockpools, temporary ground pools and containers and can be a minor pest in/near bushland areas (Russell, 1996). It is a significant nuisance species as it bites humans both during the day and at night but it has no known association with any human transmitted viruses (Whelan, 2011).

Aedes notoscriptus (Container mosquito) are found in a variety of natural and peri-domestic habitats and has a limited flight range. The species will bite during the day in cool well shaded areas. During RRV outbreaks, this species has been shown to be infected and may have an important role in RRV transmission (Whelan, 2011); the species has also been incriminated as an important vector of dog heartworm (Russell, 1996).

Anopheles annulipes (Common Australian Anopheles) is an opportunistic species that will breed in a wide variety of natural and peri-domestic (e.g. containers) habitats. Found throughout the year, the species readily bites humans during the day with peak biting time being after sunset. The disease relation for this species remains uncertain although it is known to be a laboratory vector of malaria and has yielded isolates of RRV from the Murray Valley (Russell 1996).

Culex globocoxitus generally does not bite humans. The species is common in coastal areas in the south-west of Western Australia and breeds in open swamps and in slightly brackish water. While there is currently no known link to RRV or BFV (Whelan, 2011), it has been shown to be capable of carrying MVe virus in laboratory studies and may be involved in transmission between animals (Russell, 1996).

5.3 Nuisance Complaints

All complaints are taken by City's Environmental Health Officers and recorded into the Authority database. The following actions may be undertaken depending on the nature of the complaint:

- An assessment of the location of potential mosquito or midge breeding habitat through a site inspection and larval sampling where possible. Refer to **Appendix 4** for SOPs in larval sampling of mosquitoes and midges.
- Provision of educational brochures to private properties including residences.
- Setting up a mosquito EVS/CO₂ trap at the complainant's property to determine whether there is a nuisance or disease risk. Mosquito species are identified and numbers counted to determine whether the nuisance or disease threshold of is exceeded. Refer to **Appendix 4** for SOPs in adult mosquito trapping.
- Control strategies will be undertaken at the source of breeding if found to exceed threshold levels. Larval sampling and adult trapping threshold levels are discussed in **Section 7.2 Chemical Control for Mosquitoes** and **Section 7.3 Chemical Control for Midges**.
- Location of complaint (i.e. potential breeding site) will be mapped in the City's GIS program.

5.4 Acquired Cases of Mosquito-borne Disease

In the South-West of Western Australia, the two most common mosquito-borne viruses causing human disease that are of public health concern to the DoH are Ross River virus (RRV) and Barmah Forest virus (BFV). Both viruses have similar life cycles with the virus being passed back and forth between animals and mosquitoes (Department of Health, 2010).

In the South-West region, the area of greatest risk of contracting either virus has historically been on the southern Swan Coastal Plain between Mandurah and Busselton with the highest incidence being recorded during September–May. In particular, people living within 3-5 km of saltmarshes or brackish wetlands (i.e. estuaries and tidal rivers) and freshwater wetlands are at the greatest risk of contracting RRV and BFV diseases (Department of Health, 2010).

RRV and BFV diseases are notifiable under the *Public Health Act 2016*. Therefore, a medical practitioner who diagnoses a patient with either of the viruses is required to inform the DoH of their diagnosis. Once DoH informs the City of Kwinana of the mosquito-borne disease notification, the Environmental Health Officer conducts an interview with the patient in an attempt to identify the most likely place of exposure to the mosquitoes.

RRV serologically confirmed, doctor-notified and laboratory reported data for the City provided by the DoH identified the following cases of RRV in Kwinana over the past 10 years (**Chart 3**).

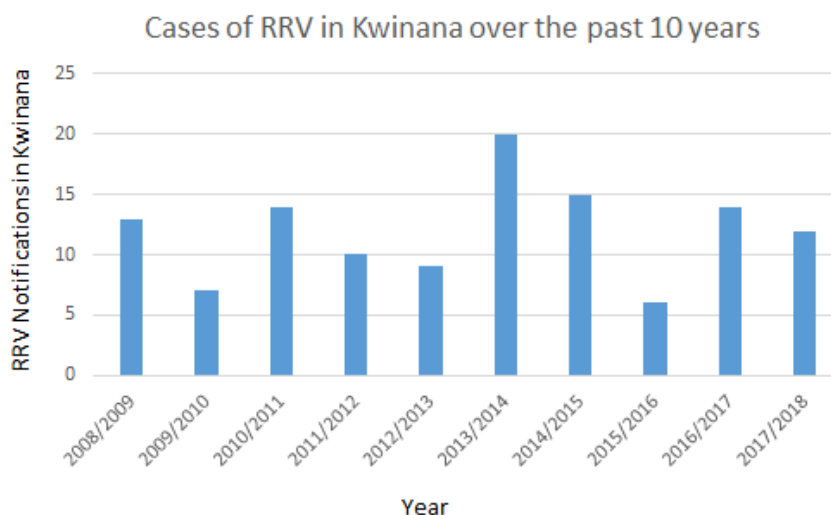


Chart 3: Cases of RRV Virus in Kwinana over the past 10 years.

In the past three years, 80% of the patients who recalled being bitten by a mosquito reported that the bite occurred outside Kwinana areas. The following table provides a comparison of the attack rates of RRV between City of Kwinana and Perth Metropolitan area.

Table 4: Attack Rates (cases per 100,000 population) of Ross River Virus comparison between Kwinana and Perth Metropolitan

	2017/18	2016/17	2015/16	2014/15	2013/14	2012/13	2011/12	2010/11	2009/10	2008/09
Kwinana (C)	31.58	36.41	16.84	42.82	59.73	31.75	41.03	48.63	25.48	50.22
Perth Metro	16.83	18.77	10.71	30.07	34.47	20.41	46.01	14.58	6.64	21.91

*Population estimates from each year based on formulas from Australian Bureau of Statistics

Source: Department of Health 2018

5.5 Virus Isolation Data

There is currently no processing of mosquitoes collected within the City of Kwinana for the detection of arboviruses of public health significance by the DoH.

The DoH conducted a study in Kwinana from September 1991 to March 1992. Monitoring involved setting EVS/CO₂ traps at eight locations in Kwinana each month (approximately) through that period and the collected mosquitoes were processed for virus isolation. Despite the fact that this was during a period of elevated RRV activity across the south-west of WA and Perth, no viruses were isolated from the Kwinana mosquitoes. Importantly, four virus isolates (including RRV and BFV) were obtained from mosquitoes collected in the neighbouring City of Cockburn during the same period (Dr. M. Lindsay, Department of Health, pers. com. 26 August 2016).

6 MONITORING

Ongoing monitoring is vital to ensure the correct timing of control options and to assess the effectiveness of the control program. The most environmentally sound and effective control method identified is during the larval stage while the insects are in a localised area and before adult emergence.

The principal aim of the monitoring program is to enable effective management of disease vector and nuisance insects and to ensure that the health, welfare and amenity of residents are protected without any undue adverse environmental impact.

Key management actions relating to mosquito and midge monitoring are summarised in the Action Plan (refer to **Table 7 in Section 14**).

The mosquito monitoring methodology is based on the following documents:

- *A guide to developing a mosquito and midge management plan for Local Government* (Western Australian Department of Health Public Health and Clinical Services, 2014); and
- Western Australian Department of Health Australian Mosquito Control Manual (Whelan, 2011).

6.1 Proposed Monitoring Sites

6.1.1 Proposed Mosquito Monitoring Sites

To further assess the risk of mosquito-borne disease in Kwinana, the City is proposing to investigate new breeding habitats in closer proximity to residences and new developments over a minimum of 12 months to establish mosquito abundance overtime.

These sites are listed in **Table 5**. These sites were also selected based on recent RRV notifications, developers' trapping results and identification of standing water during ground survey assessment.

The selected sites should provide an overall representation of the potential new breeding areas within the City. As new developments are handed over to the City, these areas will be reviewed and changed accordingly. Additional monitoring sites will allow a more detailed evaluation of the mosquito breeding areas within the City, subjected to time and cost of the monitoring.

6.1.2 Proposed Midge Monitoring Sites

Midge monitoring will only be undertaken when the City receives complaints. It will not form part of the ongoing monitoring program. Further details as discussed in **Section 5.3**.

Table 5: Proposed Mosquito Monitoring Sites

Monitoring Method	Site	Location	Justification
Adult Trapping	COKTRAP-01	Wandi (Honeywood Rise)	Previous RRV notification and complaints in the area. Developer's sampling identified exceedances of threshold.
	COKTRAP-02	Anketell (Peel Main Drain)	Previously known as Site 4. 126 exceedances between 2011-2016. Highest number of total exceedances comparable to other historical sampling sites.
	COKTRAP-03	Wellard (Bollard Bulrush)	Wetland. Previous RRV notification in the area.
	COKTRAP-04	Wellard (Bollard Bulrush)	Wetland fringe. Previous RRV notification in the area. Developer's sampling identified exceedances of threshold.
	COKTRAP-05	Bertram	Wetland with dense vegetation close to residents. Standing water detected during ground survey.
	COKTRAP-06	Bertram	Peel Main Drain close to residents.
	COKTRAP-07	Bertram	Wetland with dense vegetation close to residents. Standing water detected during ground survey.
	COKTRAP-08	Wellard	Wetland and Peel Main Drain close to residents. Previous complaints nearby.
Larval Monitoring	COKLARV-01	Wandi (Honeywood Rise)	Standing water and previous developer's monitoring site. Civil works and larviciding had been undertaken by developer to control mosquitoes.
	COKLARV-02	Wandi (Honeywood North)	Standing water and previous developer's monitoring site. The developer reported that the general threshold was exceeded on 14 consecutive sessions for this site.
	COKLARV-03	Bertram	High water table. Peel Main Drain close to residents.
	COKLARV-04	Bertram	High water table. Bubble up pit and Wetland.

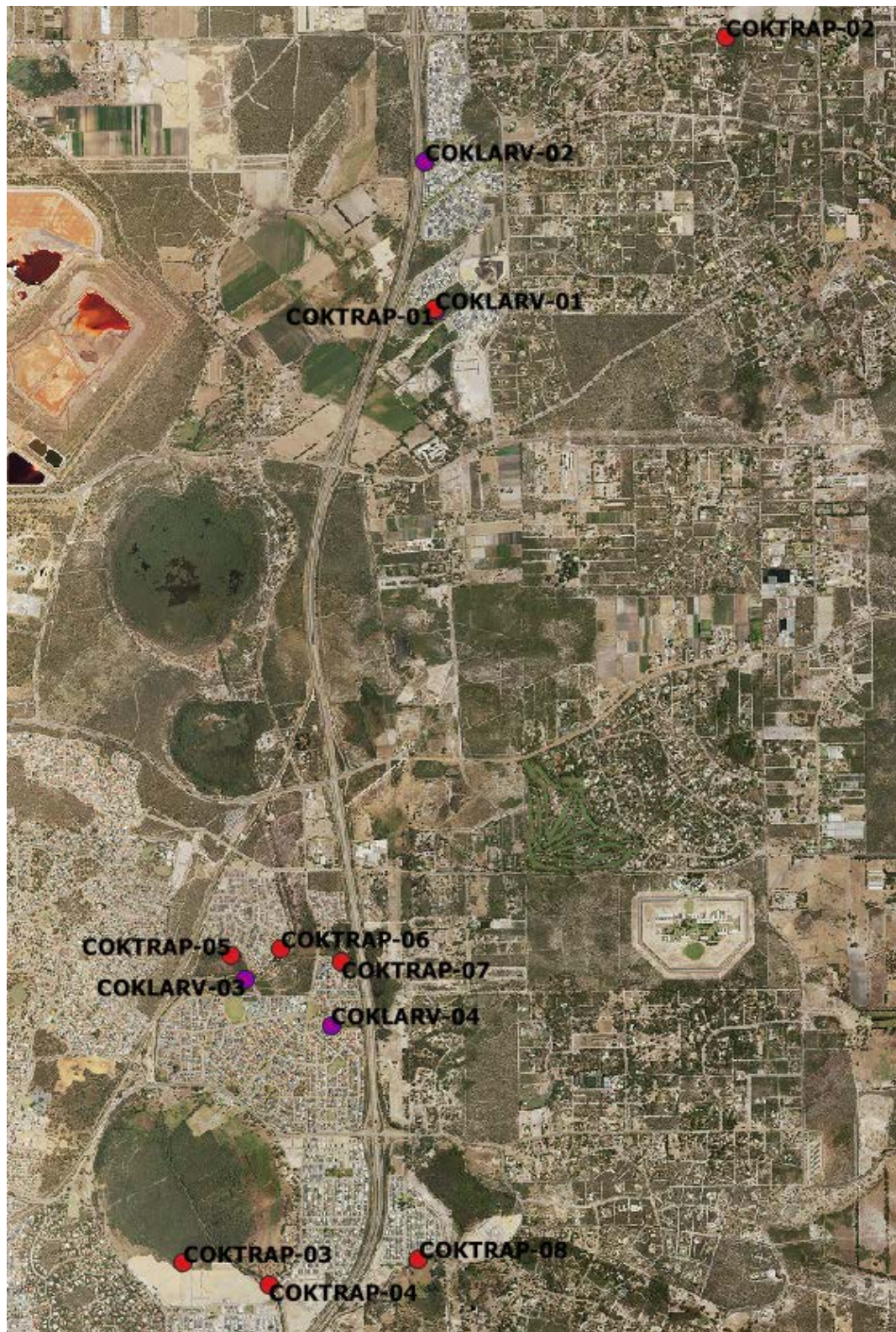


PLATE 3: Proposed Mosquito Monitoring Sites

6.2 Ongoing Monitoring Program (OMP)

To effectively monitor existing sites and new sites, the following program is recommended.

6.2.1 Environmental Data

To manage mosquito populations, the collation of climatic and environmental data e.g. rainfall, prevailing winds and temperature outlooks should be monitored on a weekly basis through the Bureau of Meteorology and discussed at CLAG quarterly meetings.

6.2.2 Adult Trapping

Monitoring of adult mosquito populations using EVS/CO₂ traps (referred to as 'light traps') is proposed to be carried out on a fortnightly basis between September and April, and once per month for the remainder of the year (May to August). The regular surveys will assist to indicate the current mosquito populations and provide information on changes in habitats which may give rise to mosquito population fluctuations. Traps will be deployed in the early afternoon and picked up the following morning. This type of trap combines the use of dry ice and light as attractants to adult mosquitoes. The mosquitoes are counted and identified for species. Refer to **Appendix 4** for SOPs in implementing adult trapping.

Data will be reviewed on a monthly basis, although if numbers of individuals collected are higher than normal (particularly vector species) and exceed the thresholds during any given monitoring session, control program measures will be implemented.

6.2.3 Larval Monitoring

Larval monitoring is proposed to be carried out at the same frequency as the adult monitoring programme when surface water is present. Each sample is examined for mosquito larvae and if present the growth stages are recorded. Other observations including water quality or any event that it is thought to be impacting on either the wetland or the mosquito larvae will be made and recorded.

Several dips are usually undertaken at the same site and the number of mosquito larvae within each dip estimated. An average will be calculated, based on the number of dips taken and then converted to obtain an overall estimate of the number of mosquito larvae at each site (larvae per m²). Larvae may be identified under a microscope or reared in emergence cages and identified as adults when significant levels are detected.

Refer to **Appendix 4** for implementing pre- and post-treatment larval monitoring procedures. The procedures will be subjected to ongoing review to ensure that they remain relevant as the program develops.

6.2.4 Drains, Bubble-up Pits and Road-side Gullies

The City's stormwater drainage infrastructure is extensively mapped on the GIS. An initial assessment of the City's stormwater drainage is required to be undertaken to establish that any standing water is not retained for more than 96 hours. As there is currently a lack of established data on the extent of the problem, it is recommended that drains, pits and gullies shall be monitored on a monthly basis for at least the first 12 months for the presence of mosquito larvae, beginning with investigations in the low-lying lands such as Bertram.

The presence of mosquito breeding will be initially treated with larvicides. Other appropriate control strategies may be selected for ongoing management following the trial period.

7 CONTROL OPTIONS/STRATEGIES

The key to providing long-term, effective control of mosquitoes and midges lies in the development of a range of integrated control measures, which involves employing a combination of physical, biological, chemical and cultural control methods.

Early identification of large mosquito populations may allow a combination of the following control strategies to be implemented on an 'as needs' basis:

- **Physical strategies** – Physical modification or removal of the source to prevent breeding;
- **Chemical strategies** – Application of larvicides to prevent the development of larvae into emergent adult mosquitoes;
- **Biological strategies** – Introduction of appropriate mosquito predators in domestic environments; and
- **Cultural strategies** – Encouraging the residents and members of the public to implement personal preventative measures through the various educational and health promotion methods.

The selection of controls on the risk of mosquitoes breeding in the environment should be performed in alignment with the hierarchy of risk control below (**Plate 4**). The control methods at the top of graphic are considered to be more effective and protective than those at the bottom.

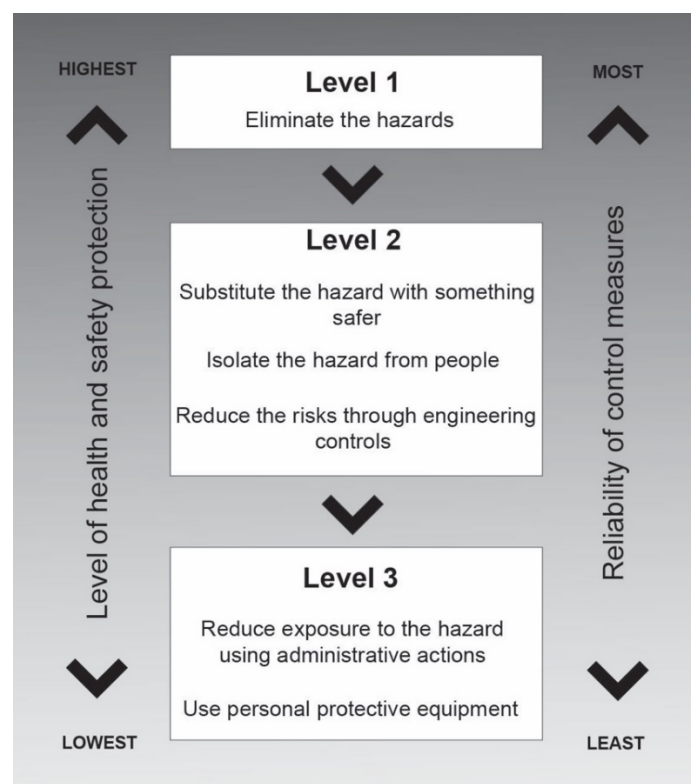


PLATE 4: Hierarchy of Risk Controls (Source: Safe Work Australia 2018)

Examples of risk control:

- Level 1: Designing out habitats during development.
- Level 2: Undertaking chemical treatments and ensuring drainage design conforms to the best practice
- Level 3: Educational strategies and ensuring staff use Personal Protective Equipment (PPE) when working outdoors.

Once control strategies have been implemented, it is essential that ongoing monitoring and surveillance is carried out (Department of Health, 2014). This work is critical to the overall program and will enable:

- Timely decisions to be made regarding when management strategies need to be implemented;
- Effectiveness of management strategies to be assessed;
- Known breeding sites to be further defined; and
- Identification of potential new breeding sites.

It is not possible to eradicate every single mosquito from an area. There will always be a remnant population somewhere that will repopulate. For example, *Aedes* species lay eggs on moist substrate such as rock surface and moist earth rather than free water surfaces.

The key management actions relating to mosquito and midge control options and strategies are summarised in **Table 7** in **Section 14**.

7.1 Physical Strategies

Physical control (source reduction) is the preferred control strategy to be implemented in order to ensure that potential breeding habitats are not created or to reduce existing breeding habitat and to minimise the need for other forms of control as far as is practicable.

7.1.1 Drainage Systems

The construction of water management systems within the City should be consistent with Water Sensitive Urban Design (WSUD) best practices as prescribed by the WAPC – Better Urban Water Management document (WAPC 2008) and the Department of Water – Stormwater Management Manual (2004) to ensure that potential mosquito breeding problems are avoided and to minimise the need for other forms of control.

Best management practices for WSUD identifies that a series of pipes, swales, multiple use corridors and basins contained within POS areas and road reserves must be designed to attenuate and infiltrate peak surface water flows within a proposed development. With respect to nuisance and vector insect control, stormwater storage design should ensure that all stormwater is fully infiltrated within 96 hours to prevent the establishment of breeding habitat (WAPC 2008).

When assessing the potential for stormwater infrastructure to create mosquito breeding habitat, the following management measures should be included:

- Stormwater pits should be designed to ensure that the base is free draining.
- Where the base of a pit is located within groundwater average annual maximum groundwater level (AAMGL), the pit base is to be sealed. Outlet points are to be free draining for the system to empty.
- Base invert levels of all swales, basins, sumps or other water infiltration feature are to have a minimum clearance of 500mm from the invert to the AAMGL
- A gully education program is established to service any soakwells and all pits within road reserves/swales/detention basins and be undertaken twice per year (at the end of autumn and beginning of spring), plus as required to prevent a build-up of organic matter and to ensure that the system remains free-flowing.
- Maintenance of detention storage basins/drains will be undertaken on an annual basis to remove weeds, dead plants and to thin out vegetation as required in accordance with the various approved water management plans at development sites, or in City controlled basins.
- Gross pollutant traps (if in use) will be maintained annually to prevent blockages caused by either a build-up of waste or stagnant water.
- Outflow drains/bubble-up pits from swales and basins should be maintained regularly to ensure free flowing drainage is maintained.
- Grass swales will be mowed at least once per month and the clippings collected and removed (if excessive) to an appropriately managed composting area.

7.1.2 Constructed Wetlands

The Midge Research Group of Western Australia (2006) has developed a risk assessment matrix for the purpose of assessing design characteristics of a constructed waterbody to identify which elements may contribute to the number of nuisance midge and mosquitoes (refer to **Table 6**).

While the primary purpose of the risk assessment guide is for use in assessing design characteristics for new water bodies (constructed lakes/wetlands), it can also be applied to existing water bodies where there are midge and/or mosquito problems exist (Department of Health, 2011). However, the original design purpose should also be considered as any modifications may affect the water body's functionality. E.g. - many water bodies were designed primarily for drainage but over time became the habitat for many different species. This environmental benefit is secondary to the primary purpose, however some community members or groups may be opposed to any action, which they believe will adversely impact the wildlife.

The total score indicates whether the proposed design of a constructed wetland is considered to be low risk. The risk assessment total will indicate whether the design parameters will collectively result in a low risk (i.e. a water body which is unlikely to produce midge or mosquitoes in sufficient numbers so as to create a nuisance or pose a health risk) to high risk where there is an increased probability of midge or mosquito breeding so as to create a problem with the likely requirement for monitoring and maintenance (Midge Research Group of Western Australia, 2007). The determination of high-scoring parameters may allow modifications to be made to the design of the water body (e.g. removal of emergent vegetation, addition of mechanical aeration, installation of a pre-treatment bed) to lower the risk rating and reduce the insect productivity of the water body (Department of Health, 2011).

Please refer to the Chironomid Midge and Mosquito Risk Assessment Guide for Constructed Water Bodies published by the Department of Health available on: <https://ww2.health.wa.gov.au/~media/Files/Corporate/general%20documents/Mosquitoes/PDF/Chironomid%20midge.pdf> for further information on the scoring system.

TABLE 6: CHIRONOMID MIDGE AND MOSQUITO RISK ASSESSMENT MATRIX

Element	Risk Rating Description	Score
Hydrology of the Water Body:	Water body does not dry out but water level remains constant.	
Location of Water Body to Residential Areas:	Nearest resident is located between 50m – 100m from water's edge.	
Form of the Water Body:	Less than 50% of the water body's edge is hard vertical edge.	
	Shape of the water body is simple in order to facilitate good water circulation.	
Wind Related Parameters:	The long axis of the water body is perpendicular to known prevailing wind directions.	
	Surrounding land level with water body preventing surface runoff entering and maximising potential wind action.	
Depth of the Water Body:	Between 60cm and 2m.	
Mechanical Circulation:	Volume of water body circulated every 24 hours or longer.	
Aquatic Vegetation:	Emergent vegetation in small stands parallel to predominant wind direction.	
Terrestrial Vegetation	Buffer vegetation mainly planted down-wind of the water body or surrounding entire water body and with clear open space provided between buffer vegetation and nearest residence.	
In-flow Water Quality	In flow water has minimal levels of nutrients.	
Engineering Considerations	In-built ability to 'draw down' or lower the water level mechanically.	
	Sufficient access for personnel and machinery to undertake routine maintenance or implement control measures.	
TOTAL SCORE		

Source: Midge Research Group of Western Australia (2007)

The design of a constructed wetland should take into consideration a number of design parameters and maintenance strategies that can be utilised to minimise the risks associated with mosquitoes and midges (Department of Health, 2011).

These relate principally to:

- Vegetation management to reduce the potential for algal blooms (eutrophication) occurring;
- Water circulation (generally preferred to have hard vertical edges to wetlands to maximise the effects of wave action which can disrupt both midge and mosquito survival); and
- Water quality (to determine the potential for mosquitoes and midge breeding to take place).

All City approved MMMPs that are prepared for development sites proposing to contain a constructed wetland/lake, will be required to include a risk assessment matrix to enable modifications to be implemented prior to construction commencing.

7.1.3 Landscaping

The reduction of midge infiltration into residential areas requires re-establishing fringing and upland vegetation around degraded wetlands to assist in screening affected wetlands from residential areas and to assist in the removal of excessive nutrients (City of Cockburn, 2015).

This management measure is the opposite of the measure required to reduce mosquitoes using surrounding wetland vegetation as harbourage or a protective corridor through to residents in search of a blood meal. Inappropriate landscaping in POS areas (e.g. thick moist groundcovers, dense shrubs and hedging plants) and wetland buffers (e.g. restoration of wetland vegetation) has the potential to make these areas highly attractive to mosquitoes, especially when they are planted close to residences.

Management measures to prevent breeding habitat include, but are not limited to, the following:

- Landscaping with water-wise native plants that do not require on-going irrigation and the turf varieties to be planted will comprise hardy species that require minimal irrigation beyond their first growing season.
- Soils used in landscaped areas are to be free draining and not subject to ponding. Shrubs chosen for landscaping will have open foliage to allow adequate light penetration and wind movement.
- Planting of vines and creepers close to buildings will be avoided.
- Pruning and under-cutting of landscaping vegetation will be undertaken on a regular basis.
- Sedge growth within constructed lakes and wetlands, basins and drainage swales will be thinned out annually (or on an 'as-needs' basis) and weed growth monitored and controlled.
- A regular maintenance program is essential to ensure that constructed wetlands/lakes are working efficiently.
- Floating debris and emergent vegetation should be removed on a regular basis to prevent dense stands from forming.
- Vegetated areas within and/or adjacent to lakes and drainage basins should be maintained in order to remove dead plants or to thin out dense stands of vegetation likely to impede water flow.
- The integrity of the edges of constructed lakes should be maintained as erosion of the edge, especially where there is emergent vegetation.

7.1.4 Backyard Complaints and Swimming Pools

Residential swimming pools are inspected every four years to determine compliance with the provisions of the *Australian Standards AS1926.1* and the *Building Regulations 2012*. The City's swimming pool inspector may report any evidence of mosquito breeding to Environmental Health Officers for follow up inspection. Unmaintained pools may also be assessed through GIS aerial surveys.

Other physical control actions include:

- Cleaning up backyards to ensure containers do not collect water; and
- Remove overgrown vegetation to prevent harbourage of mosquitoes.

7.1.5 Built Form

The built form response needs to ensure, as far as practicable, that residents are separated from mosquitoes and midges within the home environment. The built form response should include, but not necessarily be limited to, the following:

- All doors and windows should have approved insect screens fitted.
- All external vents and pipes should be screened.
- External finishing work should be of a high standard (i.e. gaps around window frames, pipes, wall mounted air conditioning units etc. should be sealed).
- Eaves should be enclosed or where this is not practical, mesh should be installed to prevent insect access to the roof space.
- If any water tanks are installed, vents should be screened to prevent mosquito access and breeding.

Further information relating to built form response and taking personal responsibility to avoid being bitten by mosquitoes can be found in the DoH's webpage: *Fight the Bite* (https://ww2.health.wa.gov.au/Articles/F_1/Fight-the-Bite-campaign).

7.1.6 Other Physical Controls

For some cases, filling in potential mosquito breeding habitats such as by covering with sand or earth or any other material and making water bodies unsuitable can provide long term solution. Other control measures may include modifications to wetland sand existing drainage.

7.2 Chemical Strategies

Chemical control of larvae and adult mosquitoes involves the application of chemical substances to physically damage or hormonally disrupt their development.

7.2.1 Larviciding

7.2.1.1 Mosquitoes

For mosquito larvae, the Threshold for treatment is approximately 1000 larvae per m². Chemical treatments will be applied when mosquito larval sampling demonstrate exceedances to the thresholds.

Should physical and habitat alterations be insufficient to prevent breeding occurring, controlling mosquitoes while they are in the larval stage of development using larvicides is the next preferred option.

Larvicides kill mosquito larvae and/or prevent the emergence of adult mosquitoes. Larvicides are used to treat known breeding sites in close proximity to residential areas. Pre and post treatment larval and adult mosquito monitoring is essential to assess the effectiveness of the application of larvicide.

The larvicides currently recommended by the DoH for mosquito control are S-methoprene, *Bacillus sphaericus* (Bs) and *Bacillus thuringiensis israelensis* (Bti).

- S-methoprene is an insect growth regulator that interferes with the normal development of mosquito larvae preventing the emergence of breeding, biting adults. Unlike some insecticides, S-methoprene is not a direct toxin and has minimal impact on non-target organisms when applied at label rates. This product is available in several different formulations, including the slow-release briquettes, which ensure ongoing release of the larvicide providing ongoing control for up to 150 days. Pellets are used for smaller water holding containers such as tanks and drains and are effective for 30 days.
- *Bti* is a crystalline endotoxin that, once ingested, will kill the larvae within 24 hours. Both of the larvicides identified are exempt from poisons scheduling and are target-specific with respect to mosquito larvae.

It is important to vary the larvicides used as a means of reducing the risk of mosquitoes becoming resistant to any one larvicide. As part of a resistance management initiative, *Bacillus sphaericus* can also be used in breeding sites where the water is polluted or has high nutrient levels (road gullies, Water Corporation drains etc). In small breeding sites, larvicides can be applied by hand without any specialist equipment.

Chemical control of the larval stage of mosquito development will include, but not necessarily be limited to, the following:

- Larval treatment will be undertaken where larval surveys identify the presence of high numbers of mosquito larvae, when the adult mosquitoes are pest/vector species and trapped in significant numbers and where physical management of the site is not appropriate.

- Larvicides will only be applied in accordance with the SOPs (refer to **Appendix 4**) and manufacturer's instructions regarding recommended application rates using calibrated equipment by operators who are trained in mosquito and midge management.
- The use of all larvicide products will be undertaken in accordance with the manufacturer's recommended application rates.

Larviciding should be used in preference to adulticiding, as the larvae is confined to its breeding site, the area that requires treatment is clearly defined and is generally much smaller than the area that would need treatment once the insects emerge as adults. Larviciding is much more target specific and may provide longer lasting control compared to adulticides.

7.2.1.2 Midges

For midges, the Threshold for possible treatment is estimated to be 2000 larval midges/m². Once larval numbers exceed this level, nuisance populations may start to develop. However, many LGAs have found that treatment may be left until larval midge numbers exceed 5000 midges/m² with little or no residential complaints (Davis *et al*, 1999). Chemical treatment for midges will only be carried out when residential complaints are received and when larval midge numbers exceed 5000 midges/m².

Abate, an organophosphate, is the only registered pesticide used for the control of midges. For some time there has been concern Australia-wide in relation to the impact of Abate on non-target species including midge predators which will in the long-term place substantial pressure on the use of this chemical within natural wetlands. Therefore, nutrient reduction and physical control measures are preferred option. Treatment will only be undertaken where other measures are not possible and where residential complaints are received.

7.2.2 Adulticiding

7.2.2.1 Mosquitoes

Thresholds - As a general guideline for determining when to implement adult mosquito control measures, mosquitoes are considered a 'nuisance' when the number of adult mosquitoes caught at a single location in an EVS/CO₂ trap exceeds 50 individuals over a normal sampling period (12-18 hours). In addition to the general threshold level described above, Lindsay (2011) notes that there are some general reference numbers when using CO₂ baited light traps that can also be used for four mosquito species:

- 20 adult *Aedes vigilax* represents a significant mosquito problem;
- counts of ≥ 30 *Aedes camptorhynchus* trap indicates that there is a mosquito problem
- counts of > 30 *Aedes notoscriptus*/trap indicates that there is a mosquito problem; and
- 100+ *Culex annulirostris* indicates a mosquito problem.

Exceedances to the Thresholds indicated above will confirm whether there is disease risk requiring ongoing monitoring. It will help to validate residential complaints and request the owners to implement control strategies e.g. maintaining pools, removing old tyres. However, chemical treatment on adult mosquitoes will not be undertaken on City's public open spaces and reserves unless there is a public health disease risk.

Adulticiding (hand held fogging and residual barrier treatments) refers to the killing of adult mosquito/midge species. This form of control can be very effective in controlling large numbers of adults. However, most of the Adulticide used are synthetic pyrethroids and unlike the larvicides detailed above, are non-target specific and due to their toxicity have the potential to impact on a wide range of invertebrates which come into contact with them including predators and beneficial insects.

To be effective, the use of an Adulticide is strictly weather dependent and should only be undertaken when the following conditions are present:

- a. Wind speed must be between 5-16 km/hr;
- b. Wind direction will carry the Adulticide to areas of mosquito harbourage and away from any wetland system;
- c. Ideally no rainfall will be present; and
- d. A temperature inversion present.

Undertaking fogging can also potentially be a nuisance in relation to noise impacts on residential premises. Therefore, fogging will only be applied in appropriate wind conditions and based upon advice received from the DWER with reference to the *Environmental Protection (Noise) Regulations 1997* which means that fogging cannot occur prior to 7am (Monday to Saturday) and 9am (Sundays and Public Holidays).

Adulticide treatment may include the following:

- Residual barrier treatments around buildings and garden areas. This information will be provided to individual property owners but it is important that any treatment be carried out by a licensed pest control operator.
- Warning signs will be in place at least 24 hours before any treatment is scheduled to be undertaken.

Adulticiding will only be undertaken when there is a public health imperative that treatment is carried out (i.e. during an outbreak of RRV where there is the need to quickly control large numbers of vector mosquitoes) and following consultation with CLAG and the DoH's Medical Entomology Team. If necessary, adult treatments will be conducted in accordance with SOPs (refer to **Appendix 4**).

7.2.2.2 Midges

There is no determined Threshold level for adult midges.

Adulticides for mosquitoes are also effective for midges. However, the City is not proposing to undertake adulticiding of adult midges as they do not pose a health risk.

7.2.3 Chemical/Nutrient Reduction

Dense larval populations usually occur in nutrient rich habitats that are often associated with fertiliser run-off from residential lawns and gardens, golf courses and agricultural fields. Community awareness and education regarding the proper use of fertilisers can avoid excess run-off into lakes, ponds and streams and can help reduce midge and mosquito populations.

Within City vested POS areas that include wetlands (natural and constructed), turf will be kept to a minimum in order to reduce the requirement for fertiliser application and irrigation in keeping with best management practice. Regular maintenance of turf areas and the removal of excessive cuttings from site near water bodies will assist the removal of potential nutrient inputs. Currently, the standard application rate is 200kg/ha gross granular mass and groundwater nutrient monitoring undertaken at 13 sites under the City's Groundwater Operating Strategy. The preferential use of native plant species will assist in minimising water and nutrient requirements.

7.3 Biological Strategies

Biological control involves the introduction or the promotion of naturally occurring species that are harmful to the target species (i.e. mosquitoes) and are harmless to the non-target species. The major biological controls currently in use are fish, aquatic beetles and bugs. Fish can control mosquito larval numbers directly by eating the larvae or indirectly by reducing algae that provide protection from other predators. Aquatic beetle larvae and bugs can also be very efficient mosquito larvae predators. Biological controls can however, become ineffective when vegetation is too dense within the wetland and therefore marginal vegetation should ideally be kept to a minimum.

Introduction of biological controls to natural environments will not form part of this plan due to the large size and nature of many breeding sites. However, it can be ideal or recommended in domestic situations e.g. fish in ponds and backyard pools.

7.4 Cultural Strategies

The public has a key role and responsibility in any integrated program to manage mosquitoes and it is important that local communities are kept informed so that they can be active participants in ensuring their own well-being. Cultural control includes examining best practice as promoted in the DoH *Fight the Bite* campaign to prevent mosquito bites – cover up, repel, clean up (Department of Health, 2016).

Copies of the DoH information pamphlets *Fight the Bite* (Department of Health, 2016) will be made readily available to City residents at the Council Offices and on the City's website. The pamphlets provide personal preventative measures to avoid being bitten by mosquitoes including:

- Trying to avoid being outside during dawn and dusk when mosquitoes are most active;
- Ensuring insect screens on houses are installed;
- Wearing long, light-coloured, loose-fitting protective clothing when outdoors in mosquito-prone areas;
- Ensuring infants and children are protected against mosquito bites, with suitable clothing or other forms of insect screening
- Applying personal repellents containing DEET (N, N-diethyl-meta-toluamide) or Picaridin to all areas of exposed skin; and
- Recognising and avoiding areas of mosquito activity whenever practicable.

The City's Environmental Health Officers respond to general enquiries and complaints concerning mosquito breeding. The City's website will also contain up to date information on the ISMMMP including links to current DoH warnings and vector-borne disease information. Other strategies may include providing information on public signage, Facebook/ media posts and newspaper articles.

8 DOCUMENTATION

Field data sheets will be used for records of observations and findings during monitoring and treatment. The results will be entered into the City's database and incorporated into the annual report. Copies of the Field Data Sheets are included as **Appendix 5**.

The City's database include the use of Authority for public complaints, GIS for mapping of all monitoring and treatment sites, Excel spreadsheets for all results and ChemAlert for chemical Material Safety Data Sheets (MSDS).

Documentation will include, but not be restricted to, the following

- Details of public complaints relating to mosquito/midge issues that are received by the City.
- Educational and promotional materials issued by the City.
- Copies of maps, aerial photos, vector control maps.
- Chemical MSDS, equipment used and associated manuals.
- SOPs and calibration records.
- Results of ongoing monitoring program including larval monitoring and adult trapping results.
- Mosquito-borne disease notifications and follow up documentations.
- Complaint trapping results.
- Weather predictions/ climate outlook.
- Control measures employed including treatment log detailing dates of treatments, areas treated, chemicals used and application rates.
- CLAG agendas and minutes.
- Purchase order, invoices and budget spreadsheets.
- Annual report.

9 STAKEHOLDER ENGAGEMENT

The effective management of mosquitoes and midges is a complex issue. The issue of responsibility for managing mosquitoes and midges on State government-owned land that is contiguous with a local government area can create problems, as limited management options may be available particularly where there are conflicting environmental considerations and the cost of implementation often devolves to the LGA (Department of Health, 2009).

The complexity of this plan dictates that there needs to be a co-ordinated approach to the management of mosquitoes and midges and a ready exchange of information between stakeholders.

The key management actions relating to stakeholder engagement are included in **Table 7**.

9.1 Internal Stakeholders

9.1.1 City of Kwinana Staff

All staff members are provided with information on nuisance/vector mosquitoes, the use of personal insect repellents and appropriate work clothing through the Skin Protection Policy contained within the Employee Handbook. This is issued by the Human Resources Department during the induction process.

9.1.2 Environmental Health Department

The Environmental Health Officers and Environmental Health Technical Officers are primarily responsible for the development, implementation, ongoing review and evaluation of this plan.

9.1.3 Planning Department

The City's Planning Officers work closely with the Environmental Health Officers to ensure that prior to development approval being supported by Council, considerations are given to the location of the proposed development with respect to the potential impact upon future residents from mosquito and midge activity.

9.1.4 Other Departments

- The design of stormwater drainage and infrastructure are managed by the City's Engineering Department.
- The general maintenance and monitoring of the stormwater infrastructure, vegetation and weed control are managed by the City's Depot and Environment Department.
- The Marketing Team will assist in the implementation of different media forms for presenting the education and health promotion messages.

9.2 External Stakeholders

9.2.1 Environmental Agencies

Due to the presence of EPA protected wetlands, WAPC Bush Forever Sites and DBCA reserves within the municipality, the City may regularly liaise with State agencies to provide an effective regional approach to mosquito control. Other external stakeholders include Department of Water and Environmental Regulation and the Water Corporation.

9.2.2 Continuous Local Authorities Group (CLAG)

State Government funding of mosquito control activities are managed by the DoH MCAC and is available to LGAs where there is an actual or potential risk to public health is specifically targeted at reducing vector mosquito control (Department of Health, 2009).

The MCAC encourages the formation of CLAGs in order to maintain effective, integrated control programs, allowing the MCAC to formulate an overall assessment of the problems occurring within the State. To be eligible for funding, the DoH requires than an individual or group of local governments must form/or be part of a Continuous Local Authorities Group (CLAG), with the grouping being based on considerations of geography and the management of vector mosquitoes.

In 2016, the City of Kwinana established a CLAG for regional cooperation in mosquito and midge management with the City of Cockburn as recommended by the Department of Health. Through the establishment of a CLAG, the City can work in partnership with stakeholders to develop a comprehensive mosquito and midge management program with shared resources and funding for the long-term benefit of the community. Previously the City have received DoH funding for 50% of the cost of chemicals and registration costs to mosquito training course. City of Kwinana will continue to apply for this funding.

Further information on the CLAG agreement is attached in **Appendix 6**.

9.2.3 Land Developers

With the City's growth expected to increase by an estimated 85,000+ by 2036, land use, subdivisions and rezoning may play a role in increasing the potential risk presented to future residents and visitors.

The WAPC has the power to impose a memorial on land titles that are newly created through the process of subdivision and are potentially affected by a relatively permanent hazard or to impose conditions of approval on any subdivision proposal considered to be located in a high risk area. The City have imposed subdivision conditions to require all developers to prepare and undertake a Mosquito and Midge Management Strategy and to contribute to a fee per lot at subdivision clearance. The contributions are transferred into the City's developer contributions reserve account. These fees may be drawn down for the purposes of mosquito and midge management and control to limit and reduce the public health risk of vector borne disease from mosquitoes.

A Mosquito and Midge Management Strategy prepared by the developers requires the approval of the City of Kwinana. This requires the developer to implement and report on monitoring and management actions and to provide prospective owners at point of sale *Fight the Bite* pamphlets on how to avoid creating mosquito breeding habitat and reduce the risk of exposure to mosquito-borne disease when in affected areas. The average duration for developers to implement requirements of the respective mosquito and midge management plans is two years post construction.

Land developers may be responsible for placement of a *Land Transfer Act* Section 70A Notification on the titles of all residential lots advising that the subject lots of land are in close proximity to known mosquito breeding areas. This ensures that residents are aware of the increased disease risk and potential nuisance factors of mosquitoes.

9.2.4 City Residents and Visitors

As the City expands there will be a need for a much broader educational approach in respect of informing residents and visitors of the relevant mosquito issues. Residents and visitors travelling within Australian and overseas should be informed through DoH *Fight the Bite* website.

10 STAFF TRAINING

- All Environmental Health Officers and Environmental Health Technical Officers should be conversant with this plan. It is essential that the officers are trained in mosquito management, including but not limited to the SOPs, the safe storage, handling and application of chemicals and the appropriate use of personal protective equipment.
- All Environmental Health Officers and Environmental Health Technical Officers should attend the DoH mosquito management course, which covers all the necessary skills and competencies required for mosquito management.
- All City staff involved in the planning/development process and whose decision-making may have an impact on the ISMMMP should be briefed on its objectives and implementation.

11 PROGRAM FUNDING

The City will allocate funds for the mosquito and midge management from the existing mosquito and midge developer's contribution reserve and the annual pest control budget.

The level of mosquito activity is dependent upon a number of environmental factors and there can be significant variations of mosquito activity seasonally and annually. Consequently, the amount of monitoring and management measures implemented may vary.

Funding of the cost of the program for the first year of the program include:

- Human Resources to implement the program.
- Fuel and servicing of vehicle.
- Personal protective equipment.
- Mosquito sampling and treatment equipment.
- Digital microscope with camera.
- Consumables including dry ice and batteries.
- Chemicals.
- Training courses.
- Dissemination of information to residents.

The total cost for mosquito and midge management for the City of Kwinana is expected to be around \$56,000 in the first year.

Through the CLAG, the City will seek financial contributions from the DoH for mosquito and midge management each financial year. The City have secured 50% contribution for purchasing chemicals and equipment. An estimated expenditure post DoH subsidy for purchasing chemicals and equipment will total up to \$8816.14 in 2018/19. DoH have provided an in-principle approval for signage funding of up to \$3000 but this amount is subject to change as the Department is currently investigating the option of producing in-house signage.

12 REPORTING

An annual report will be prepared capturing all management actions outlined in the ISMMMP over the previous 12 months. The report will be prepared in the format as requested by the DoH.

The report should include, but not be restricted to, the following:

- Results on the larval monitoring and treatment program.
- Results on the adult monitoring and treatment program.
- RRV/ BFV notifications and follow up documentation.
- Control strategies implemented including treatment activities.
- Details of any changes to the program since the previous report was published.
- Details and activities undertaken as part of the education program.
- A financial report on the funding/budget for the program.
- Staff training received.
- Details of changes made to any of the SOPs.
- Recommendations for changes to management actions and planning for the following year.
- Any significant events, findings and improvements.

A copy of the annual report will be forwarded to the CLAG and the DoH.

Any relevant tasks and actions will be updated in Performance Manager.

13 REVIEW

It is important that this plan is subject to regular review to ensure that it continues to maintain a high level of efficiency, whilst remaining relevant to the changing needs of the community, landscape and improvements in best management practice. Examples include new breeding sites and alternative approaches to mosquito management may become available (e.g. new chemicals).

It is therefore recommended that a comprehensive assessment and review of the program be undertaken every three years.

The key management actions relating to program implementation and reporting are summarised in **Table 7**.

14 TABLE 7: ACTION PLAN

SECTION 1: PROPOSED NEW INITIATIVES					
No.	Management Action	Control Strategy	Responsible Department	Frequency	Relevant Section in ISMMMP
1	Investigate new breeding habitats in closer proximity to residences through the Ongoing Monitoring Program (OMP) to establish baseline data showing mosquito abundance and nuisance/ disease risks over time. Eight adult trapping and four larval sampling sites have been proposed for the monitoring, commencing in 2018/19 period.	Monitoring	Environmental Health	First 12 months. All sites will be reviewed after this time and new sites will be determined for 2019/20 period if necessary.	6.1
2	Carry out the OMP through adult trapping and larval sampling using the relevant Standard Operating Procedures (SOPs).		Environmental Health	Fortnightly from September to April, Monthly from May to August. Frequency may change due to environmental conditions.	6.2.2 6.2.3
3	Monitor the climatic conditions that may affect mosquito breeding including rainfall and temperature outlooks. Weather forecasts should be analysed and considered for timing of interventions. Details of significant weather events such as storms or tropical cyclones will be recorded in City's database.		Environmental Health	Weekly through Bureau of Meteorology and quarterly through Contiguous Local Authorities Group (CLAG) meetings.	6.2.1
4	Conduct an initial assessment of the City's stormwater drainage systems to establish that any standing water is not retained for more than 96 hours. Appropriate control strategies will be chosen for ongoing management following the trial period.		Environmental Health	Monthly for the first 12 months and ongoing frequency will be determined after the trial.	6.2.4
5	Map all known mosquito breeding, larval monitoring, complaints, adult trapping sites and treatment sites on the City's GIS program.	Documentation	Environmental Health/ ICT	By December 2018. New or potential breeding sites will be mapped as required.	8

CITY OF KWINANA
INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

SECTION 1: PROPOSED NEW INITIATIVES					
No.	Management Action	Control Strategy	Responsible Department	Frequency	Relevant Section in ISMMMP
6	Develop and require a planning permit condition to include a risk assessment matrix from the Department of Health's "Chironomid midge and mosquito risk assessment guide for constructed water bodies" to be applied to all new development sites that propose a constructed wetland/ lake for the City's review.	Physical Control	Environmental Health/ Planning	By December 2018. Conditions will be applied as required.	7.1.2
7	Investigate and where possible, implement modifications to wetlands and drainage systems (e.g. by appropriate grading of the land, selective filling with sand or earth and re-engineering of drains) in identified mosquito and midge breeding sites at City's POS and reserve areas.	Physical Control	Environmental Health/ Engineering	Following first 12 months assessment of the City's stormwater drainage and results from OMP	7.1.6
8	Conduct larviciding through ground-based application and apply to those areas with nuisance/ disease risks.	Chemical Control	Environmental Health	When larval surveys and adult mosquitoes trapped exceed defined thresholds.	7.2.1
9	Conduct adulticiding for mosquito species when advised by the DoH during emergencies and RRV outbreaks.	Chemical Control	Environmental Health	On advice by DoH, during emergencies and RRV outbreaks.	7.2.4
10	Investigate the potential of installing signage at entrances to parks and reserves containing wetlands. The key educational message is to promote personal protection within the community.	Cultural Control	Environmental Health/ Depot/ Marketing	First 12 months	7.4 9.1.4
11	Prepare an annual report summarising all activities undertaken during the implementation of the ISMMMP over the previous 12 months and submit to the DoH Medical Entomology Unit and CLAG for their review and comment prior to finalising.	Reporting	Environmental Health	Annually	12

CITY OF KWINANA
INTEGRATED STRATEGIC MOSQUITO AND MIDGE MANAGEMENT PLAN

SECTION 1: PROPOSED NEW INITIATIVES

No.	Management Action	Control Strategy	Responsible Department	Frequency	Relevant Section in ISMMMP
12	Undertake regular review of the documented information to ensure that the monitoring and control strategies are being implemented effectively.	Review	Environmental Health	Ongoing and annually	13
13	Undertake a review and evaluation of the plan and SOPs.			Every three years.	

SECTION 2: CURRENT INITIATIVES

No.	Management Action	Control Strategy	Responsible Department	Frequency	Relevant Section in ISMMMP
14	Record all actions from the Ongoing Monitoring Program (OMP), complaints and control measures in the City's database.	Documentation	Environmental Health	Ongoing	8 5.3
15	Investigate all complaints and mosquito-borne disease notifications through a follow up interview with the patient.	Monitoring	Environmental Health	As required	5.4 7.1.4
16	Provide all staff with information on nuisance/vector mosquitoes, the use of personal insect repellents and appropriate work clothing through the Skin Protection Policy contained within the Employee Handbook which is issued during the induction process.	Cultural Control	HR/ Environmental Health	Ongoing	9.1.1
17	Ensure that the <i>Fight the Bite</i> pamphlets, current DoH warnings, information relating to mosquito-borne disease and the OMP are up to date and readily available on the City's website. Other media forms including Facebook posts may be used for educational and health promotional messages throughout the mosquito-breeding season.	Cultural Control	Environmental Health/ Marketing/ Community Engagement	By the first month of the plan adoption. Ongoing updates throughout September to April each year.	7.4 9.1.4

SECTION 2: CURRENT INITIATIVES					
No.	Management Action	Control Strategy	Responsible Department	Frequency	Relevant Section in ISMMMP
18	Continue to minimise nutrient levels in the environment and debris input into drainage infrastructure through a range of physical control measures including: <ul style="list-style-type: none"> Removal of excessive grass clippings from mowing all turf within POS space Minimisation of fertiliser use via appropriate application rate and treatment intervals. Regular street sweeping. Removal of organic build-up within drainage infrastructure as part of the annual gully education program with interim inspection round. Control of weeds through the Natural Areas Management Plan. Annual drainage inspection program to ensure that all drainage assets have appropriate maintenance requirements. 	Physical Control	Depot/ Contractor	Ongoing and frequency varies across the City Ongoing	7.1
20	Refer Local Structure Plans and subdivision planning applications to the Environmental Health Department for consideration and for assessment of developer's Mosquito and Midge Management Strategy.	Internal Stakeholder Management	Environmental Health/ Planning	As required	9.1.3
21	Assess the design of the City's drainage and water management systems to ensure consistency with the Water Sensitive Urban Design (WSUD) practices.		Engineering	As required	7.1.1 9.1.4
22	Continue to work with City of Cockburn and DoH through CLAG partnership to control mosquito-borne diseases in the South Metropolitan Region.	External Stakeholder Management	Environmental Health	Quarterly meetings	9.2.2

SECTION 2: CURRENT INITIATIVES					
No.	Management Action	Control Strategy	Responsible Department	Frequency	Relevant Section in ISMMMP
23	Impose planning conditions for developers to carry out their own Mosquito and Midge Management Plan. Developers will continue to provide a fee contribution to the mosquito reserve fund for each new residential lot created.	External Stakeholder Management	Environmental Health/ Planning	As required	9.2.3
24	Ensure all Environmental Health staff who participate in mosquito management are adequately trained.	Staff Training	Environmental Health	All staff to be trained within six months of plan adoption and following updates to SOPs.	8 9.1.2 10
25	Prepare annual budget and seek CLAG funding for 50% of the cost of chemical treatments each year.	Program Funding	Environmental Health	Annually in August	11

15 REFERENCES

Australian Mosquito Control Association Inc. (2008). *Australian Mosquito Control Manual*. Revised 3rd edition.

Commonwealth of Australia (2009). Matters of National Environmental Significance, Significant Impact Guidelines 1.1 *Environment Protection and Biodiversity Conservation Act 1999*.

Davis et al. (1999). *Wetlands Bioassessment Manual (Macroinvertebrates)*. National Wetlands Research and Development Program, Australia.

Department of Agriculture and Food Western Australia (DAFWA) (2016). Note: Mapping is available online: <http://maps.agric.wa.gov.au/nrminfo/framesetup.asp>

Department of Environment Regulation (2016). Native vegetation clearing legislation in Western Australia Environmental Protection Act 1986, Clearing Regulation Fact Sheet 1. [Online] from https://www.der.wa.gov.au/images/documents/your-environment/native-vegetation/Fact_sheets/fs1_legislation.pdf

Department of Health (Mosquito-Borne Disease Control Branch) (2009). *Review of the Contiguous Local Authorities Group (CLAG) funding scheme for health-driven mosquito and midge management. A discussion paper and request for submissions.*

Department of Health WA (2010a). Ross River virus and Barmah Forest virus in WA. Environmental Health Guide – March 2010. [Online] from <http://www.public.health.wa.gov.au/cproot/1444/2/RRV%20and%20BFV%20indo0WA%202010.pdf>

Department of Health (2011a). *Mosquito and midge management Manual*. Prepared by the Environmental Health Directorate, Government of Western Australia Department of Health.

Department of Health (2011b). *Chironomid midge and mosquito risk assessment guide for constructed water bodies – Guidance Notes*. [Online] from http://www.public.health.wa.gov.au/cproot/1402/2/10233_Chironomid%20Midges%20and%20Mosquitoes%20Constructed%20Water%20Bodies%20A4%20July'11%20PROOF.pdf

Department of Health (2014). *A guide to developing a mosquito and midge management plan for Local Government*. Prepared by the Public Health and Clinical Services, Government of Western Australia Department of Health.

Department of Health (2015). Continuous Local Government Authority (CLAG) funding review. [Online] from http://www.public.health.wa.gov.au/3/1652/2/contiguous_local_authority_group_clag_funding_revi.pm

Department of Health (2016). *Fight the Bite Campaign*. [Online] from http://ww2.health.wa.gov.au/Articles/F_I/Fight-the-Bite-campaign

Department of Health (2018). Atlas of Environmental Health. [Online] from <http://doh.gaiaresources.com.au/>.

Department of Medical Entomology, University of Sydney (2018). Mosquitoes of Australia. [Online] from <http://medent.usyd.edu.au/photos/mosquitoesofaustralia.htm>

Department of Parks and Wildlife (2016). Wetlands Management. [Online] from <https://www.DBCA.wa.gov.au/management/wetlands>

Department of Planning (2016). *Bush Forever: Keeping the Bush in the City*, Perth, Western Australia. [Online] from <http://www.planning.wa.gov.au/publications/5911.asp>

Department of Water (2003). Perth Groundwater Atlas.

Department of Water (2007a). Interim Position Statement: Constructed Lakes. July 2007. Department of Water, Perth, Western Australia.

Department of Water (2007b). Stormwater Management Manual for Western Australia. August 2007. Department of Water, Perth, Western Australia.

Environmental Health Directorate (2010). *Planning a Mosquito and midge management Programme*. Prepared by the Environmental Health Directorate, Western Australian Department of Health.

Environmental Protection Authority (2000). *Guidance Statement No. 40: Management of Mosquitoes by Land Developers*. Perth, Western Australia. Withdrawn from circulation.

Environmental Protection Authority (2008). *Environmental Guidance for Planning and Development*. Guidance Statement No. 33. Perth, Western Australia. May, 2008 [Online] from http://www.epa.wa.gov.au/Policies_guidelines/EAGs/guidance/Pages/2717_GuidanceStatement33-EnvironmentalGuidancefor.aspx

Environmental Protection Authority (2014). *WA Environmental Offsets Guidelines*, Environmental Protection Authority, Perth, Western Australia, August, 2014. [Online] from <http://epa.wa.gov.au/EPADocLib/WA%20Environmental%20Offsets%20Guideline%20August%202014.pdf>

Forecast.id (2018). Population Forecasts – City of Kwinana, [Online] from <http://forecast.id.com.au/kwinana/residential-development>

Gioeli, K.T., Creswell, R.L., Gellermann, J.P., Skvarch, E.A. and Koehler, P.G. (2015). ENY-865_IN825_Managing Pestiferous Freshwater Aquatic Midge Emergences from Storm Water Retention Ponds, [Online] from <http://edis.ifas.ufl.edu>

Government of Western Australia (2000). *Bush Forever - Keeping the Bush in the City. Volume 2: Directory of Bush Forever Sites*. Western Australian Planning Commission, Perth, Western Australia.

Government of Western Australia's WA Atlas [Online] from <https://www2.landgate.wa.gov.au/web/guest/wa-atlas>

Harrington, S., and Johansen, C. (2011). Mosquito-borne Diseases in Australia – Activity July 2010-2011. In: Mosquito Control Association of Australia Inc. *Mosquito Bites in the Asia Pacific Region*, Vol. 6 Issue 1 July 2011.

Hill A.L., Semeniuk C.A., Semeniuk V. and Del Marco, A. (1996). *Wetlands of the Swan Coastal Plain Volume 2a: Wetland Mapping, Classification and Evaluation, Wetland Atlas.* Water and Rivers Commission and the Department of Environmental Protection, Perth.

JDA Consultant Hydrologists (2009). *Wandi (North) Local Water Management Strategy (LWMS).* Report J4106d January 2009.

JDA Consultant Hydrologists (2010). *Honeywood Development Stage 1A, Urban Water Management Plan, Lots 678-679 & part Lot 680 Lyon Rd, Wandí, WAPC No. 140239.* Report J4506j, November 2010.

Liehne, P.F.S. (1991). *An Atlas of Mosquitoes of Western Australia.* Published by the Health Department of Western Australia.

Lindsay, M. (2011). Mosquito Biology and Behaviour, Case examples and implications for Control. In: Department of Health (2011) *Mosquito and midge management Manual*, prepared by the Environmental Health Directorate, Government of Western Australia Department of Health.

Lindsay, M. (2014). Mike Lindsay - Who's Who in Aussie Mossie Land? In: *Mosquito Bites in the Asia Pacific Region*, Volume 9 – Issue 2, Summer 2014/2015, Mosquito Control Association of Australia Inc.

Local Government Association of Queensland Ltd (2012). *Mosquito and midge management Code of Practice 2012.* [Online] from https://www.lgaq.asn.au/c/document_library/get_file?uuid=5f9164dea975633311e59614b40102d8&groupId=10136

Midge Research Group of Western Australia (2007). *Chironomid midge and mosquito risk assessment guide for constructed water bodies.* Midge Research Group of Western Australia.

Mosquito Control Association of Australia (2002). *Australian Mosquito Control Manual.*

NSW Arbovirus Surveillance (downloaded January 2010). [Online] from <http://www.arbovirus.health.nsw.gov.au/mosquit/photos/mosquitophotos.htm>

Pacific Biologics (2015). Prolink Mosquito Growth Regulator. [Online] from <http://www.pacificbiologics.com/index.php/larvicides/prolink>

Pinder A, Davis J, Lane J (1992). Managing the midge. *Landscape* 7(4), 37–42

Purdue University (2016). Mosquito Life Cycle (Generalized), [Online] from <https://extension.entm.purdue.edu/publichealth/images/downloads/lifecycle-mosquito.jpg>

Russell, R.C. (1996). *A Colour Photo Atlas of Mosquitoes of Southeastern Australia.* Department of Medical Entomology, Westmead Hospital and the University of Sydney.

Russell, R.C. (2009). Constructed Wetlands in Australia: Concerns and Constraints, Compromises and Complaints for effective mosquito and midge management. *Arbovirus Research in Australia* 8: 314-323.

Safe Work Australia. *Identify, assess and control hazards* [Online] from <https://www.safeworkaustralia.gov.au/risk>

Schoknecht, N., Tille, P. and Purdie, B. (2004). Soil – Landscape mapping in south-western Australia – An overview of methodology and outputs, *Resource Management Technical Report 280*, November 2004, Department of Agriculture Western Australia.

South Australia Health Department (2016). *Fight the Bite*. [Online] from http://www.healthywa.wa.gov.au/Articles/N_R/Prevent-mosquito-bites-on-holiday-in-Australia

University of Sydney (downloaded January 2016)
[Online] from <http://medent.usyd.edu.au/photos/mosquitoesofaustralia.htm#aera>

Walker, Ian R. (1987). Chironomidae (Diptera) in palaeoecology. *Quaternary Science Reviews* 6: 29-40

Western Australian Planning Commission (2008). *Better Urban Water Management*. Perth, Western Australia.

Whelan, P. (1997). Problem mosquito species in the Top End of the NT, pest and vector status, habitats and breeding sites. Medical Entomology Branch, Northern Territory Department of Health and Community Services.

Whelan, P. (2009). Mosquito Surveillance and Monitoring Techniques. In: Department of Health (2009) *Mosquito and midge management Manual*, prepared by the Environmental Health Directorate, Government of Western Australia Department of Health.

Wright, A. E. (2011). Mosquitoes as Pests in Western Australia. In Department of Health WA (2011) *Mosquito and midge management Manual*, prepared by the Environmental Health Directorate, Government of Western Australia Department of Health.

LIST OF APPENDICES

APPENDIX 1	Existing Environment
APPENDIX 2	Historical Mosquito Monitoring Data
APPENDIX 3	Register of Developers' Mosquito and Midge Management Plans
APPENDIX 4	Standard Operational Procedures
APPENDIX 5	Data Sheets
APPENDIX 6	Signed Memorandum of Understanding for CLAG

APPENDIX 1

EXISTING ENVIRONMENT

APPENDIX 1 EXISTING ENVIRONMENT

1 Rainfall

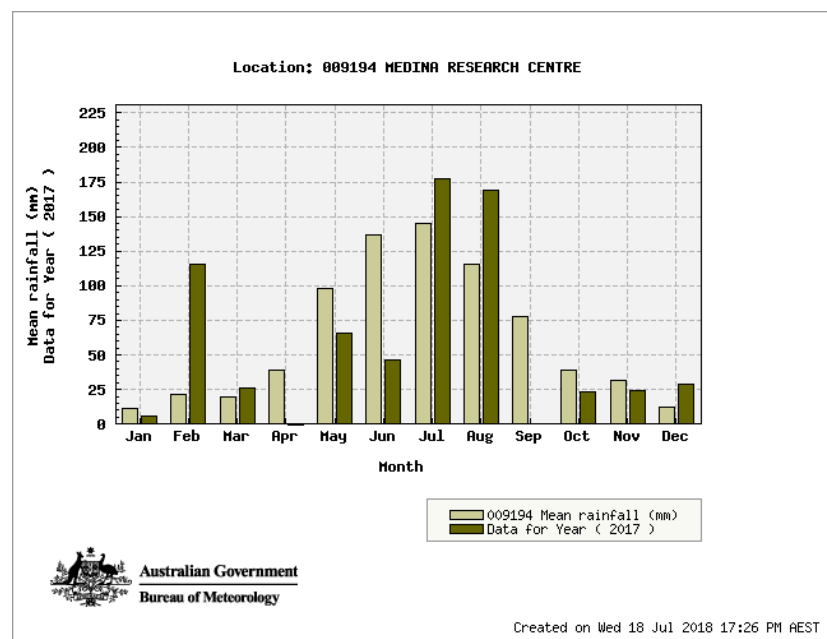
Table 1 provides monthly rainfall data (mm) recorded at the Bureau of Meteorology's (BOM) Medina Research Station (Site No. 009194). In terms of long-term data collected during the period 1983-2018, the mean annual rainfall recorded over the 33 year recording period is approximately 745.5 mm (Bureau of Meteorology, 2018).

TABLE 1: MONTHLY RAINFALL (mm) RECORDED AT THE MEDINA RESEARCH CENTRE

Statistic	Jan	Feb	Mar	Apr	Ma y	Jun	Jul	Au g	Sep	Oct	Nov	Dec	Ann.
Mean rainfall (mm) 1983-2018	11.3	21.5	19.4	38.7	98.2	136.9	145.5	115.4	77.7	39.0	31.5	12.0	745.5
Rainfall (mm) for year 2017	5.8	115.3	25.8	0	66.1	46.1	177.4	169.2	no data	23.5	24.3	28.8	No Data
Rainfall (mm) for year 2016	21.0	12.8	14.3	55.3	121.8	98.5	101.6	143.0	91.2	32.9	28.0	11.0	731.4

Source: Bureau of Meteorology (2018)

Chart 1 shows mean annual rainfall recorded over the 33 year recording period against the monthly rainfall recorded during 2017. While the annual rainfall is similar, what is important to note is the variability of rainfall recorded on a month-by-month basis. This has implications for the duration and extent of the seasonal high of the groundwater table through the area.



**Chart 1: Monthly Mean Rainfall Recorded at Median Research Station
(Source: Bureau of Meteorology, 2018)**

2 Temperature

Table 2 and Chart 2 identify the mean maximum temperature data recorded at the Medina Research Station (1983 – 2018) ranged from 18.3°C (July) to 30.9°C (January). The long-term mean varies considerably with the mean maximum temperature range over the 2017 recording period of 18.9°C (July) - 32.4°C (January). Mean minimum temperature data recorded at the Medina Research Station (1983 – 2018) ranged from 8.2 °C (July and August) - 17.6°C (February) while the range over the 2015 recording period of 8.5 (May) – 18.5 (February) is similar to that of the long-term range (Bureau of Meteorology, 2016).

TABLE 2: MEAN MONTHLY LONG-TERM AND MONTHLY TEMPERATURES RECORDED AT THE MEDINA RESEARCH CENTRE

Statistic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean maximum temp (°C) for years 1983-2018	30.9	31.5	29.3	25.7	22.1	19.5	18.3	18.9	20.4	22.8	26.2	28.3
Mean minimum temp (°C) for years 1983-2016	17.0	17.6	16.0	13.4	10.5	9.0	8.2	8.2	9.2	10.4	13.4	15.1
Monthly maximum temp (°C) 2017	41.4	38.0	38.0	33.4	30.1	26.7	24.4	24.9	27.5	32.0	36.9	36.8
Monthly minimum temp (°C) 2017	15.3	17.0	15.2	10.8	10.6	8.6	10.1	9.1	9.4	11.2	15.0	15.6

Source: Bureau of Meteorology (2018)

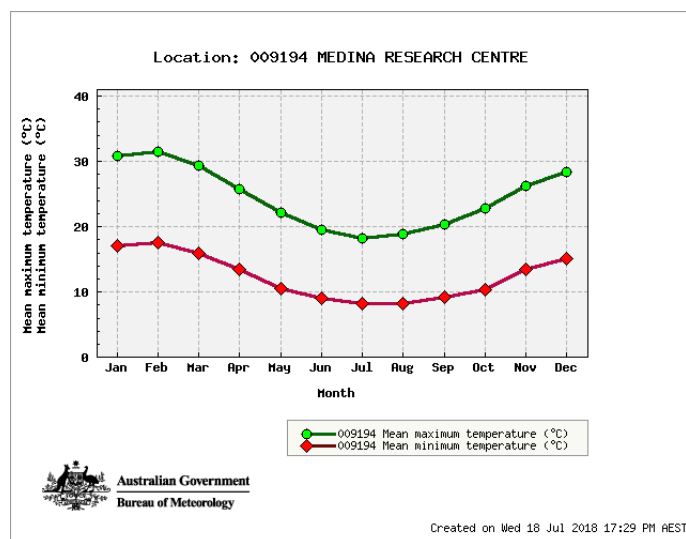


Chart 2: Monthly Mean Maximum and Minimum Temperatures Recorded at Medina Research Station (Source: Bureau of Meteorology, 2018)

3 Prevailing Winds

From 1983 to 2013, the BoM has recorded the 9 a.m. and 3 p.m. wind speed (km/h) and direction at the Medina Research Centre weather station. **Table 3** and **Chart 3** indicate that morning winds (> 13 kph) dominated by the easterlies, are very common from early spring intensifying through summer and then moderating into autumn. From May-August calmer winds (< 10 kph) tend to dominate the mornings. During afternoons in late spring and summer wind speeds typically range from 18 - 21 kph. It is not unusual for calmer conditions to be experienced throughout the winter months however stronger wind gusts are not uncommon as an intense low front passes over the South West land division.

TABLE 3: MONTHLY MEAN WIND SPEED RECORDED AT THE MEDINA RESEARCH CENTRE

STATISTIC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean 9am wind speed (km/h) 1983 to 2013	12.7	13.3	12.7	10.9	8.6	9.1	9.5	10.0	12.1	13.1	13.8	13.7
Mean 3pm wind speed (km/h) 1983 to 2013	20.8	18.2	16.4	14.4	11.6	12.1	12.9	15.0	15.5	18.1	20.5	20.9

(Source: Bureau of Meteorology, 2018)

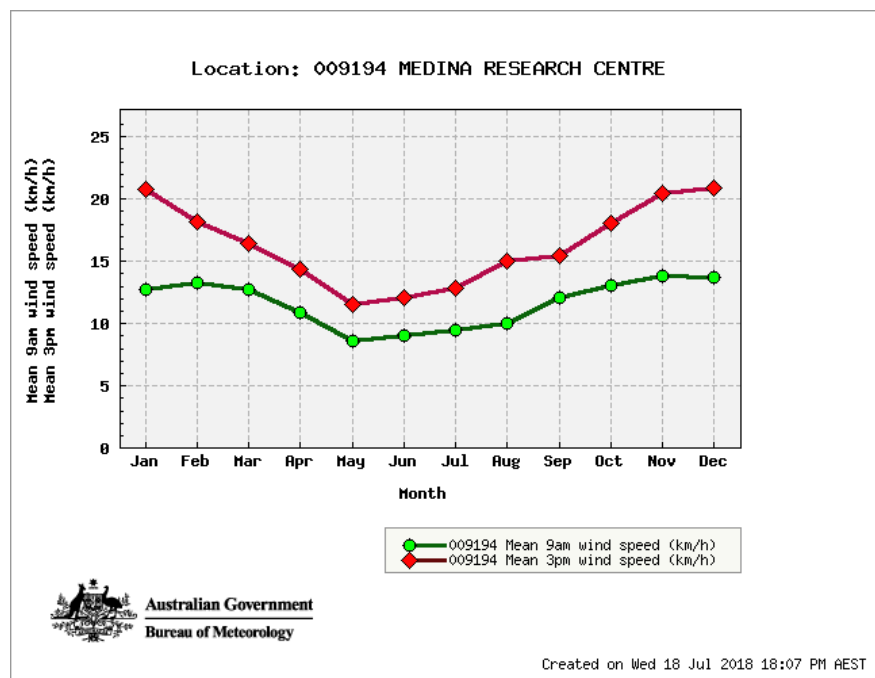


Chart 3: Monthly Mean Wind Speed Recorded at Medina Research Station
(Source: Bureau of Meteorology, 2018)

4 Wetlands

Geomorphic wetland mapping identifies that the wetlands located within the municipality belong predominantly to four natural wetland suites (Hill *et al.*, 1996). Information relating to the characteristics of the suites is shown in **Table 4**.

The dataset includes the Unique Feature Identifier (UFI), the location, boundary, geomorphic classification (wetland type) and management category for each of the mapped wetlands on the Swan Coastal Plain (Department of Parks and Wildlife, 2016).

TABLE 4: CHARACTERISTICS OF NATURAL WETLAND GROUPS LOCATED IN THE CITY OF KWINANA

Name and location	Geomorphic Setting	Primary Wetlands	Wetland Description	Stratigraphy	Origin of Wetlands
Coogee Suite (B3) In a linear belt 1-2 km inland from the coast, east of Woodman Pt.	Spearwood Dunes Unit – inter-dune ridge depression overlying limestone.	Lakes and sumplands.	Meso-macroscale, irregular to elongate forming linear chains; hypo-hyper-poikilohaline.	Carbonate mud overlying limestone.	Carbonate mud filled depressions now acting to pond meteoric water.
Stakehill Suite (S4) Linear below extending from Wattleup to Mandurah.	Spearwood Dunes Unit – inter-ranging from ridges of limestone outcropping to ridges of yellow sand overlying limestone.	Lakes and sumplands.	Micro-macroscale, mainly elongate but locally irregular; forming a linear chain; subhaline-poikilohaline.	Carbonate mud and peat overlying yellow sand.	Carbonate mud and peat filled depressions; probably originally karst depressions superimposed on palaeotopographic features.
Jandakot Suite (B3) Jandakot area.	Bassendean Dunes comprised of low dunes and depressions.	Damplands and sumplands.	Micro-mesoscale irregular, closely spaced and coalescing; freshwater, stasohaline.	Peat or peaty sand or humic sand overlying quartz sand.	Groundwater surfacing or near surface in depressions to develop water table basins.
Bibra Suite (SB1) Linear belt extending from Murdoch to Wellard, in a N/S orientation approximately 5-7 km east of the coast.	Spearwood and Bassendean Dunes contact depression. Continuous high dune ridges to the west and a series of discontinuous hollows.	Lakes and sumplands in a north-south oriented chain.	Meso-macroscale, mainly round but locally irregular; fresh, poikilohaline.	Mud, peat or peaty sand overlying Bassendean Sand.	Contact depressions with groundwater impounded against Spearwood Dune ridge.

Source: Adapted from Hill *et al.*, (1996)

The *Geomorphic Wetlands Swan Coastal Plain* dataset has also assigned management categories whereby each of the wetlands can be classified into one of three categories: Conservation, Resource Enhancement and Multiple Use. The description of each of these categories is outlined in **Table 5**.

TABLE 5: MANAGEMENT CATEGORIES OF WETLANDS

Management Category	General Description	Management Objectives
Conservation (incorporates EPA Bulletin 686 categories H and C)	Wetlands which support a high level of attributes and functions.	Highest priority wetlands. Objective is to preserve and protect the existing conservation values of the wetlands through various mechanisms including: <ul style="list-style-type: none"> • reservation in national parks, • crown reserves and State owned land, • protected under Environmental Protection Policies, and • wetland covenanting by landowners. No development or clearing is considered appropriate. These are the most valuable wetlands and any activity that may lead to further loss or degradation is inappropriate.
Resource Enhancement (incorporates EPA Bulletin 686 categories O and R)	Wetlands which may have been partially modified but still support substantial ecological attributes and functions.	Priority wetlands. Ultimate objective is to manage, restore and protect towards improving their conservation value. These wetlands have the potential to be restored to Conservation category. This can be achieved by restoring wetland function, structure and biodiversity. Protection is recommended through a number of mechanisms.
Multiple use (aligns with EPA Bulletin 686 category M)	Wetlands with few remaining important attributes and functions	Use, development and management should be considered in the context of ecologically sustainable development and best management practice catchment planning through land care.

Source: Environmental Protection Authority (2008)

The EPA uses the term ‘environmental values’ to encompass particular uses or values of the environment that are important for a healthy ecosystem, or for public benefit, safety or health, and which require protection from the effects of pollution and harm (Environmental Protection Authority, 2008).

According to the EPA’s *Environmental Guidance for Planning and Development - Guidance Statement No. 33* (Environmental Protection Authority, 2008) the environmental values of a wetland are considered in terms of their regional context, ecosystem value and their cultural use value.

All wetlands and its categories are mapped in the City’s GIS.

5 Groundwater Hydrology

The groundwater in the City has geological formations that have been grouped into two distinct aquifers:

- Superficial Aquifer (unconfined); and
- Leederville Aquifer (confined)

The Superficial Aquifer is part of the Jandakot Mound and the Kardinya Shale Member of the Osborne Formation separates this from the Leederville Aquifer (JDA, 2009). Groundwater level contours taken from the *Perth Groundwater Atlas* (Department of Water, 2003) indicate that throughout much of the City, the groundwater is flowing from east-southwest. The watertable ranges from about 24 mAHD in the northeast corner of the City in the suburb of Casuarina to about 1 mAHD in the west (Kwinana Industrial Areas). Within the eastern half of the City, the watertable contours exhibit the greatest fall.

The Jandakot Mound has formed as a result of the vertical recharge of rainfall to the watertable being greater than the horizontal groundwater flow through the Superficial Aquifer and is characterised by little or no surface flow, with the exception of constructed drains. Due to the sandy sediments present throughout much of the City, the seasonal variation in the watertable between summer and winter is limited (JDA, 2010). The summer watertable ranges from approximately 22 mAHD in the northeast corner of the City to approximately 14 mAHD in the southwest; the seasonal variation in watertable is generally about 0.5-1.0 m, reaching maximum in September-October, and minimum in April-May.

The depth to groundwater correlates with the topography. Over some low lying parts of the City the seasonal fluctuation in the watertable results in the watertable being close to the natural surface level for a few months of the year. Groundwater near wetland areas is close to the surface for a few months of the year with surface water in the wetlands being an expression of the seasonally high groundwater table during years of average rainfall.

6 Vegetation

Hedde *et al.* (1980) divided the Swan Coastal Plain into medium to large areas based on soil and landform units, with the vegetation within these areas defined in terms of floristic composition, growth-form dominance, species composition and stratal structure. According to Hedde *et al.* (1980), there are five Vegetation Complexes associated with the City of Kwinana (going from west-east):

- **Quindalup Complex:** restricted to the coastal dunes and can be subdivided into two alliances: strand and fore dune alliance and the mobile and stable dune alliance. The species composition differs as a result of variations in edaphic and topographical factors and degree of shelter from salt-laden winds. Local variations include the low closed forest of *Melaleuca lanceolata*–*Callitris preissii* and the closed scrub of *Acacia rostellifera*.
 - **Cottesloe Complex-Central and South:** mosaic of woodland of *Eucalyptus gomphocephala* (Tuart) and open forest of *E. gomphocephala*–*E. marginata* (Jarrah)–*Corymbia calophylla* (Marri); closed heath on the limestone outcrops.
 - **Karrakatta Complex-Central and South:** predominantly open forest of *E. gomphocephala*–*E. marginata*–*C. calophylla* and woodland of *E. gomphocephala*–*Banksia* species.
 - **Herdsmen Complex:** Sedgelands and fringing woodland of *E. rudis*–*Melaleuca* species.
 - **Bassendean Complex-Central and South:** Vegetation ranges from woodland of *E. gomphocephala*–*Casuarina fraseriana*–*Banksia* species to low woodland of *Melaleuca* species and sedgelands on the moister sites.
-

APPENDIX 2

HISTORICAL MOSQUITO MONITORING DATA

APPENDIX 2

CITY OF KWINANA HISTORICAL MOSQUITO MONITORING DATA

LARVAL MONITORING 2011-2017

Site 1: The Spectacles wetland

Site 2: Kwinana (Peel) Main Drain Rowley Road Wandi

2015/16

Site 1: No monitoring due to closure of The Spectacles Drive.

Site 2: During the 2015-16 reporting period Site 2 was dry during the months of February –April. The highest larval density recorded at the site occurred on the 24 November 2015 with 250 larvae per m².

2014/15

Site 1: *Anopheles*, *Culiseta* and *Culex* were caught during eight monitoring sessions with the species *Culiseta atra* identified from late stage developed larvae and pupae collected at the site. The highest larval density recorded at Site 1 being 505 larvae per m².

Site 2: The species *Culex annulirostris*, *Culex australicus*, *Culex globocoxitus* and *Culiseta atra* were identified from late stage developed larvae and pupae collected at the site. The highest larval density recorded at Site 2 was 1095 larvae per m².

2013/14

Site 1: The Genera *Anopheles*, *Culiseta* and *Culex* were caught. The species *Culiseta atra* was identified from late stage larvae and pupae collected at this monitoring site. The number of larvae caught ranged from 0 – 46 per m².

Site 2: The genera *Culex* was caught at only one session (15 October 2013). The number of larvae caught was 3 larvae per m².

2012/13

Site 1: *Aedes*, *Culiseta* and *Culex* were caught. The number of larvae caught ranged from 0 – 88 per m².

Site 2: *Culiseta* and *Culex* were caught. The number of larvae caught ranged from 0 – 127 per m².

2011/12

Site 1: *Culiseta atra* was the only species identified at larval monitoring Site 1. The number of larvae caught ranged from 3 – 307 per m².

Site 2. Number of larvae caught ranged from 0 (when the drain was dry) to 4211 per m² sampled on the 14 February 2012.

ADULT TRAPPING 2006 – 2017

TEN ORIGINAL MONITORING SITES - OCTOBER 2006 – JULY 2009

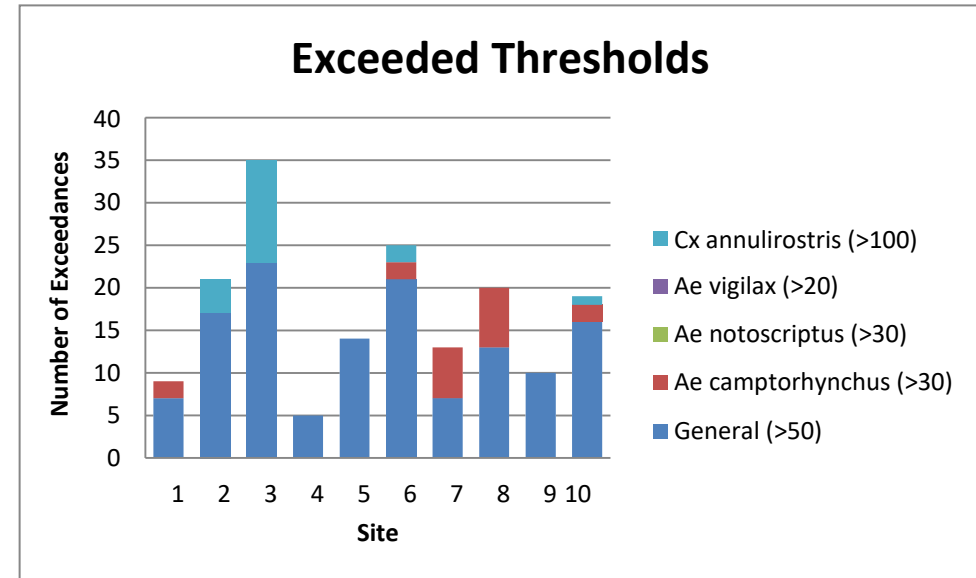
- 10 adult trapping sites
 - Site 1: Long Swamp, Hope Valley
 - Site 2: Wandi Nature Reserve
 - Site 3: The Spectacles Wetland
 - Site 4: Wetland in Seabrook Way Medina
 - Site 5: Wetland next to Daintree Loop Bertram
 - Site 6: Orton Road Casuarina
 - Site 7: Sloans Reserve Leda
 - Site 8: Leda Boulevard Bushland
 - Site 9: Bollard Bullrush Swamp Wellard
 - Site 10: Wellard Lowlands
- 47 monitoring sessions per site
- ~30,469 adult specimens trapped
- 14 mosquito species trapped
- trap numbers ranged from 0 – 1758
- average number of mosquitoes trapped per session per site was 65.8
- most abundant species constituting 73.4% of the total mosquitoes trapped were:

Culex annulirostris (11277 - 37.0%)

Culex globocoxitus (4090 - 13.4%)

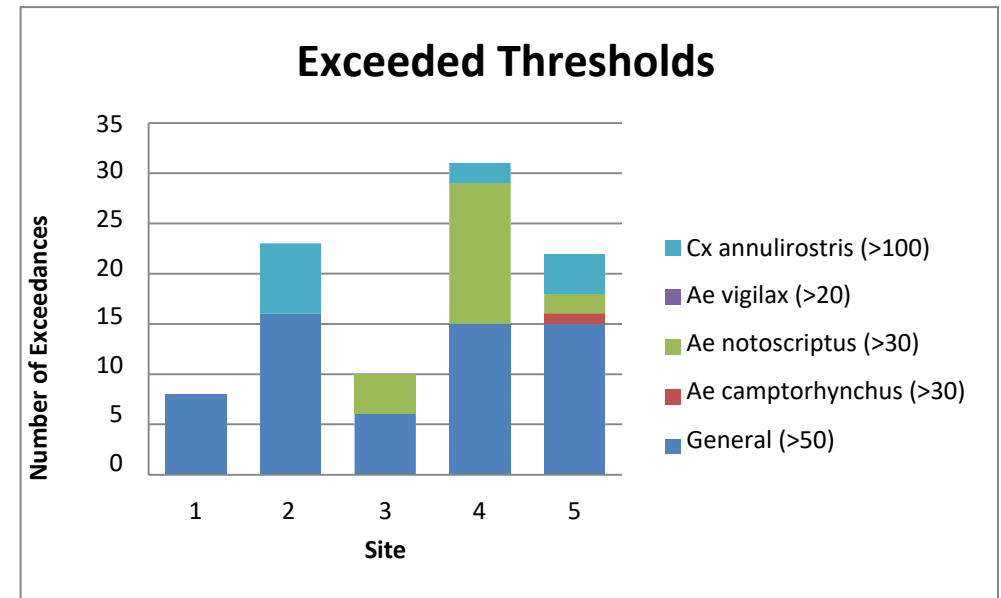
Aedes camptorhynchus (3997- 13.1%)

Anopheles annulipes (3012 - 9.9%)



FIVE MONITORING SITES - NOVEMBER 2009 – APRIL 2011

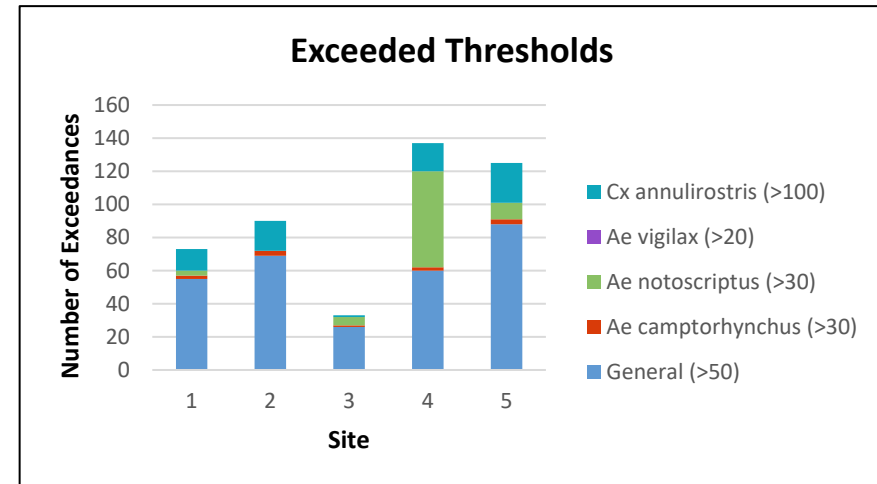
- 5 adult trapping sites
 - Site 1: Wandi Nature Reserve (Bushland North of De Haer Road)
 - Site 2: The Spectacles (Bushland surrounding Wetland)
 - Site 3: Lyon Road Wellard (Wetland West of the Road)
 - Site 4: Kwinana Drain (Bushland South of Rowley Road)
 - Site 5: Clementi Road, West of Mandogalup Swamp
- 2 sites kept from previous monitoring program:
 - Wandi Nature Reserve (Previously Site 2)
 - The Spectacles (Previously Site 3)
- 33 monitoring sessions per site
- ~13,083 adult specimens trapped
- 12 mosquito species trapped
- trap numbers ranged from 0 – 1553 across the monitoring period
- average number of mosquitoes trapped per session per site was 83.3
- most abundant species constituting 85.9% of the total mosquitoes trapped were:
 - Culex annulirostris* (4801 - 36.7%)
 - Culex globocoxitus* (2120 - 16.2%)
 - Aedes notoscriptus* (1776 - 13.6%)
 - Anopheles annulipes* (1342 - 10.3%)
 - Coquilletidia sp. near linealis* (1189 - 9.1%)



Note: In November 2011 aging traps were replaced, new trap investment aimed to increase efficiency, reduce waste and reduce the possibility of future trap failures.

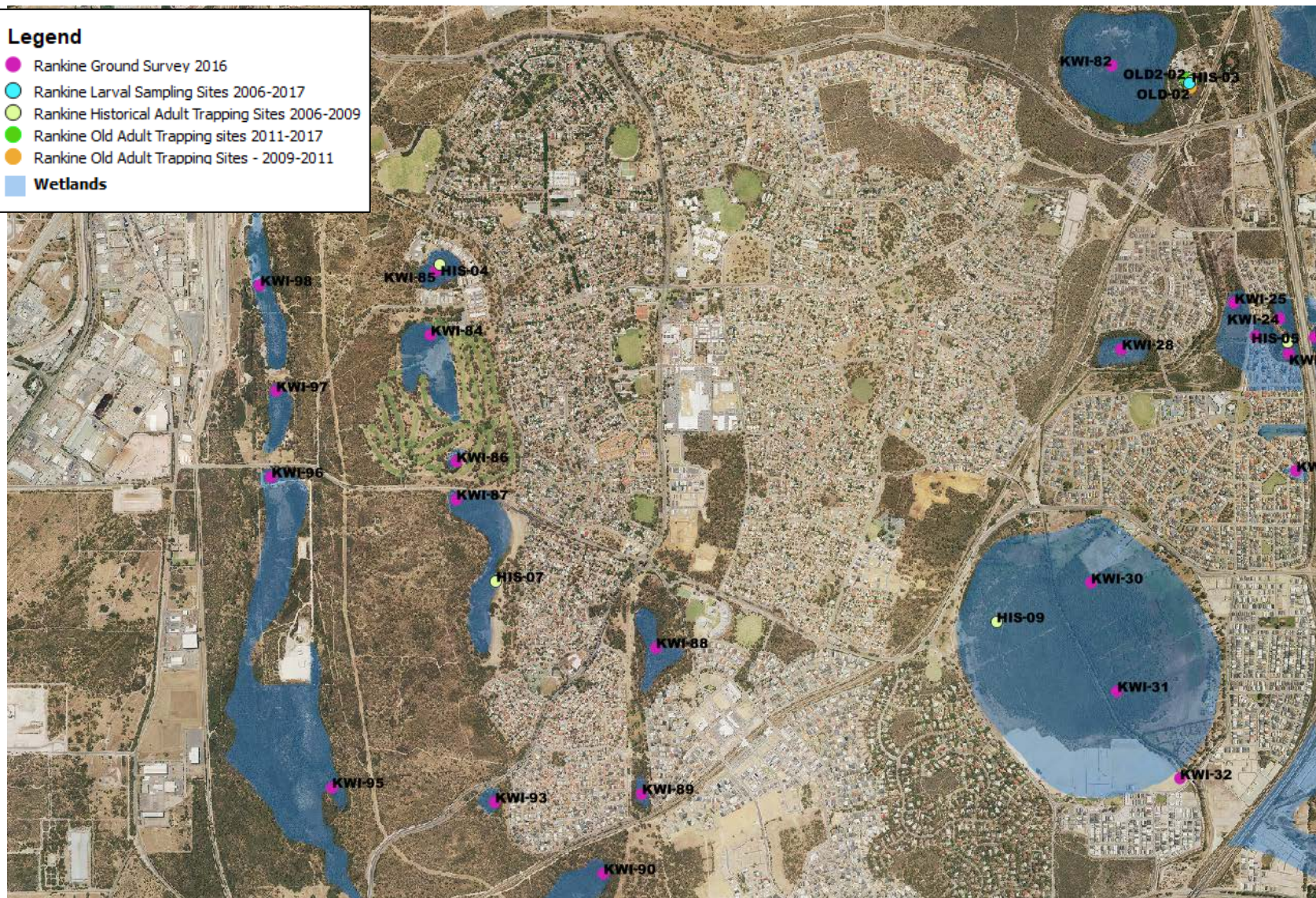
FIVE MONITORING SITES - OCTOBER 2011 – JUNE 2017

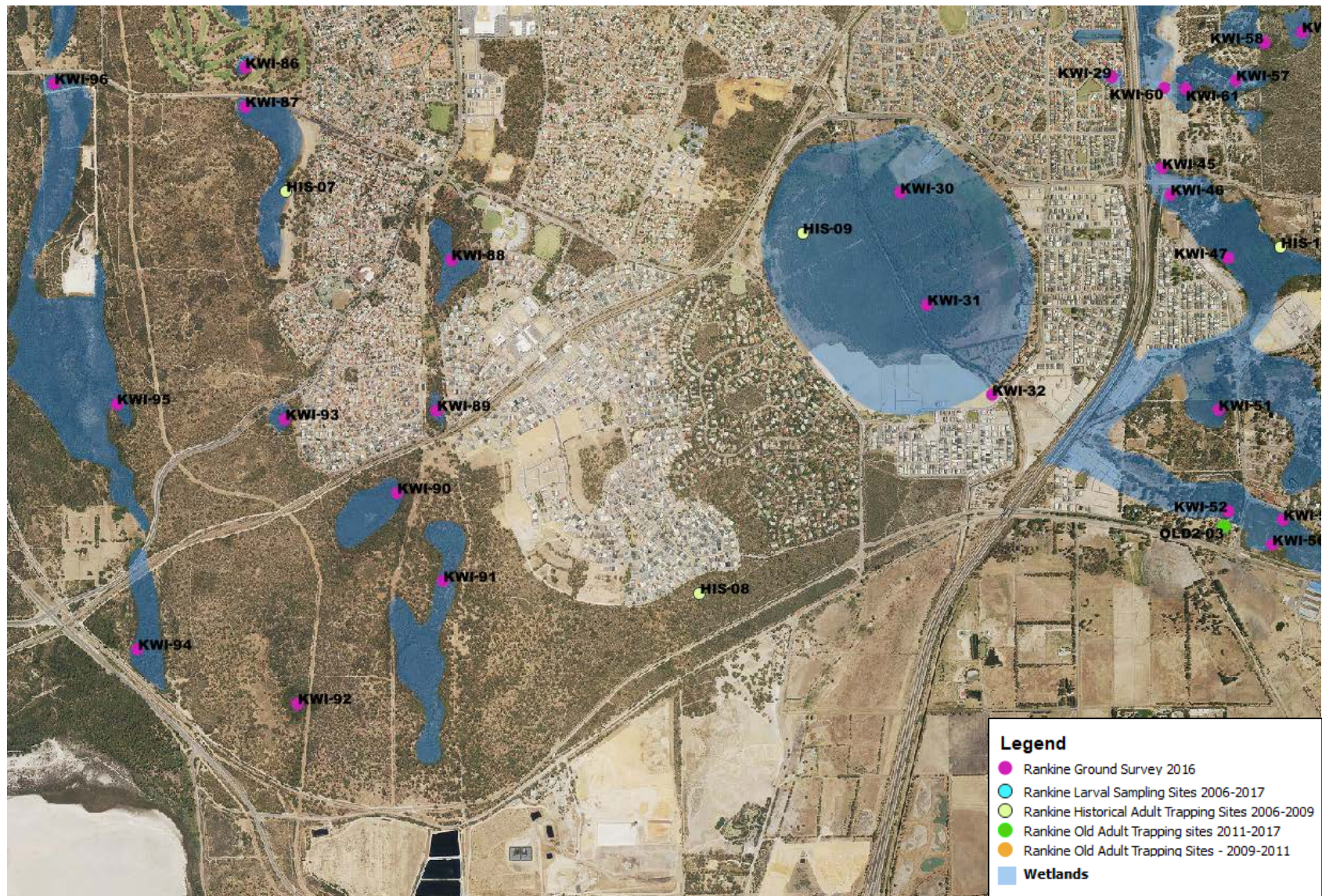
- 5 adult trapping sites
 - Site 1: Wandi Nature Reserve (Bushland North of De Haer Road)
 - Site 2: The Spectacles (Bushland surrounding Wetland)
 - Site 3: Woolcoot Road Wellard (Bushland surrounding wetland West of the Road)
 - Site 4: Kwinana Drain (Bushland South of Rowley Road)
 - Site 5: Clementi Road, West of Mandogalup Swamp
- 4 sites kept from previous monitoring program one site moved
- 11 monitoring sessions per site
- ~106,525 adult specimens trapped
- 15 mosquito species trapped
- trap numbers ranged from 1 – 1370
- average number of mosquitoes trapped per session per site was 183
(Note that this monitoring program did not run through a winter period resulting in a higher average count)
- most abundant species constituting 93.15% of the total mosquitoes trapped were:
 - Culex annulirostris* (47,448 – 44.54%)
 - Culex globocoxitus* (17,994- 16.89%)
 - Anopheles annulipes* (11,093 – 10.41%)
 - Aedes notoscriptus* (9187 – 8.62%)
 - Aedes alboannulatus* (7109 – 6.67%)

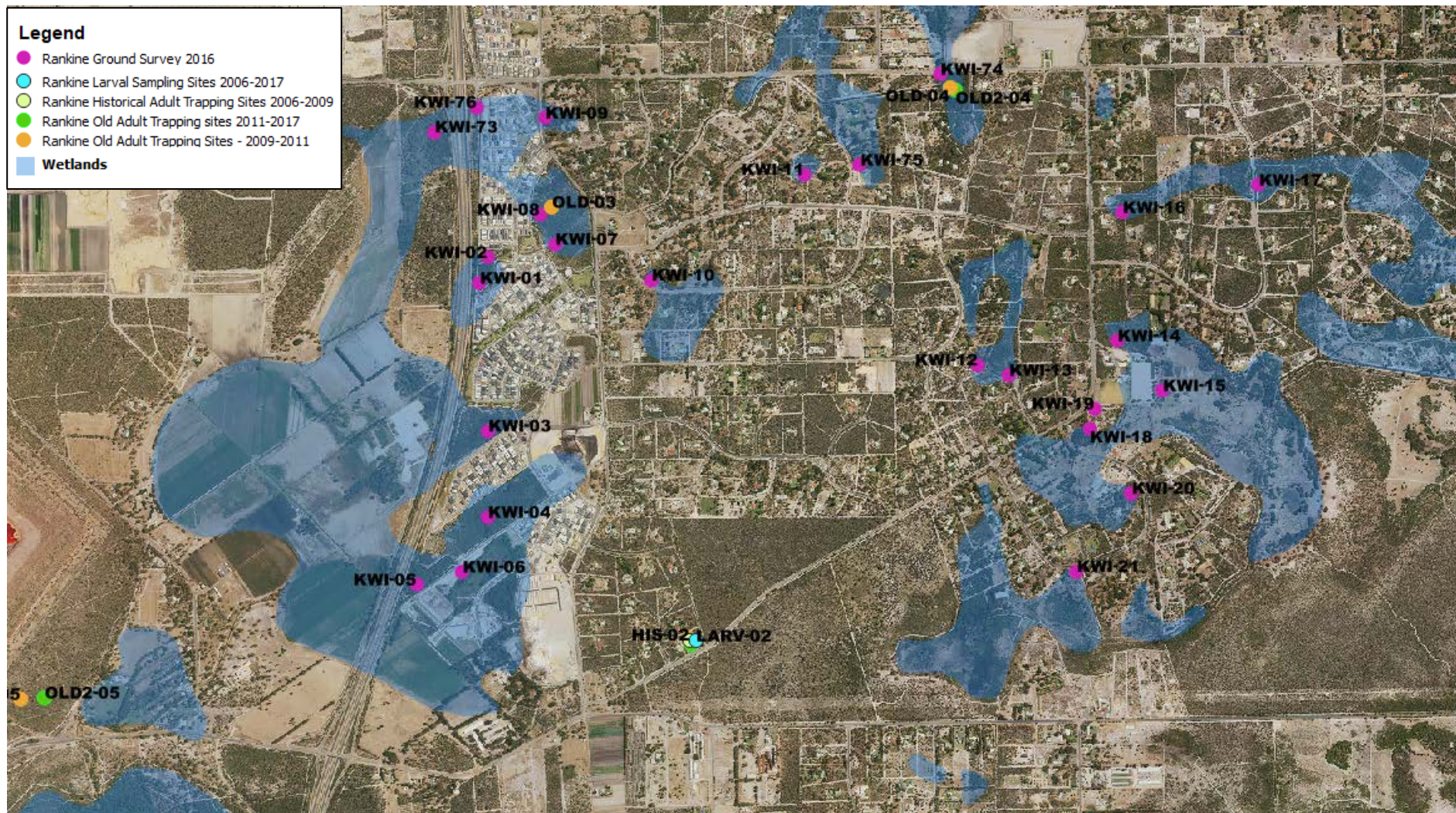


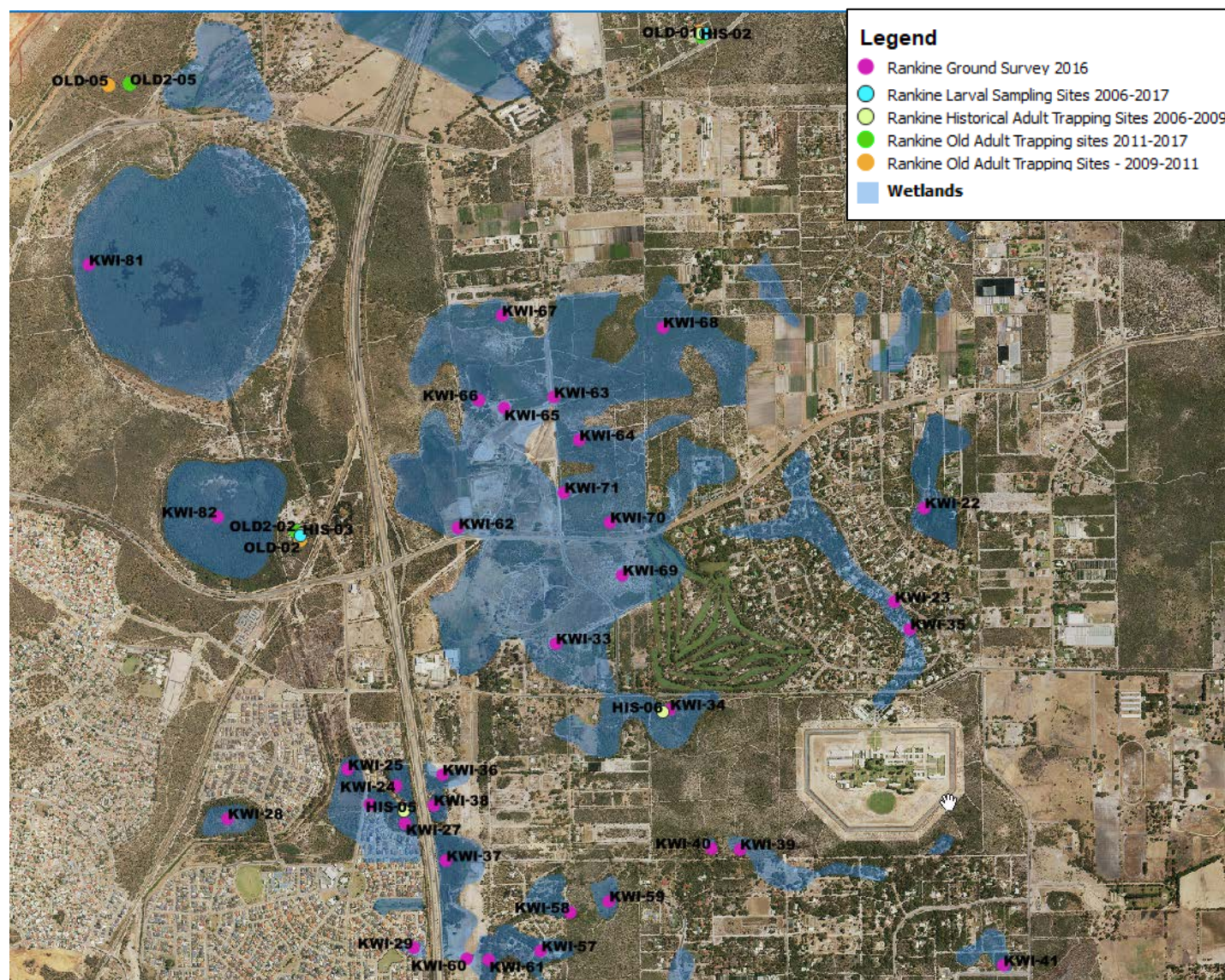
Legend

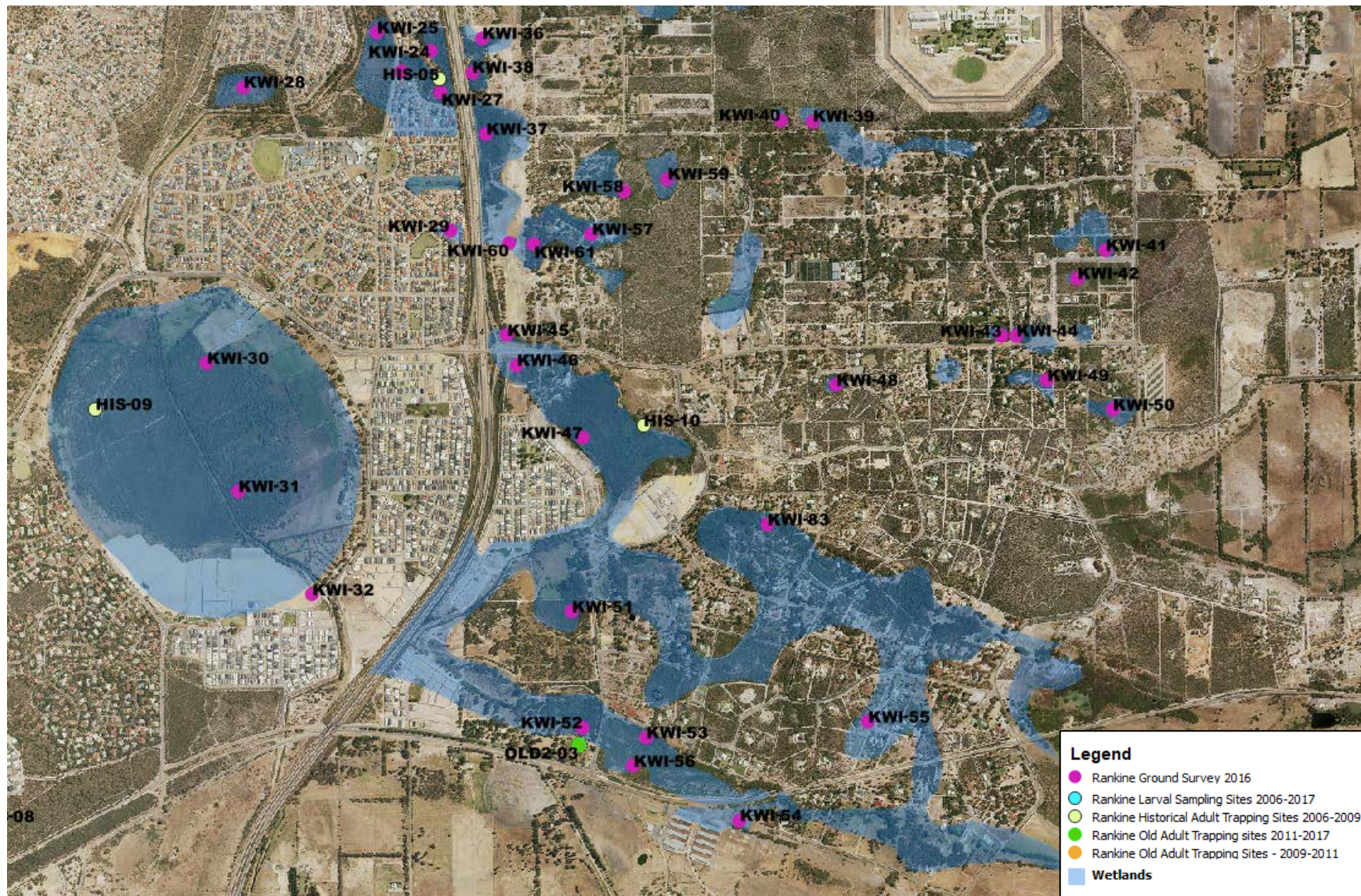
- Rankine Ground Survey 2016
- Rankine Larval Sampling Sites 2006-2017
- Rankine Historical Adult Trapping Sites 2006-2009
- Rankine Old Adult Trapping sites 2011-2017
- Rankine Old Adult Trapping Sites - 2009-2011
- Wetlands











APPENDIX 3

REGISTER OF DEVELOPERS' MOSQUITO AND MIDGE MANAGEMENT PLANS

Approved Developers Mosquito and Midge Management Plans

Suburb	Development	Approval	Approval Date	MMP
Wandi	Honeywood - area bounded by Kwinana Fwy, Rowley Rd, Lyon Rd and North of Darling Chase	D14/10376	14/02/2014	D14/8146
	Honeywood Wandii/ Mandogalup	D13/32545	15/05/2013	D13/4655
	Whistling Grove - Lot 12 Honeywood Ave Wandii	D15/35441	16/06/2015	D16/68912
	Wandi South - Lots 51, 52, 63 Kenby Chase and Lots 674 and 675 Lyon Rd	D16/68882	6/10/2016	D16/68910
	Lots 54 and 55 Kenby Chase	D17/35648	20/05/2017	D16/68005
Anketell	Anketell South - Lots 1,2,3 & 17 Thomas Rd	D17/35155	26/05/2017	D17/19463
	Treeby Park, Anketell - Lot 13 Treeby Road	D17/43778	14/07/2017	D17/43631
	Anketell North - Lots 2 and 3 Anketell Rd Kwinana	D17/35155	25/05/2017	D17/19463
Mandogalup	Lot 682 Rowley Road Mandogalup	yet to be issued		D18/19628
Wellard	Sunrise Stage 8 -13	D16/31155	11/05/2016	D16/31156
	Sunrise Stage 1-7 - Lot 27 (102) Mortimer Rd (covered by original approval)	D16/31155	11/05/2016	D13/31574
	Wellard Glen - Wellard East - Lots 90 and 378 Millar Rd Wellard	D14/90218	3/12/2014	D15/11810
	Lot 64 Woolcoot Rd - Wellard East (Living Edge)	D16/36711	3/06/2016	D16/36701
	Lot s 1,2,10 Johnson Rd (Fairhaven Estate)- Bollard Bullrush Swamp	D17/28131	2/05/2016	D16/53168
	Providence - Lot 601 Wellard Rd	D16/18286	18/03/2017	D15/84836
	Oakebella - Lot 503, 504 Tamblyn Place, Lot 505 and 507 Johnson Rd Wellard	D17/35052	26/05/2017	D16/80162
Parmelia	Cassia Rise - Parmelia (Tuart Ridge) - Lot 9237 Parmelia Stage 1	D15/25818	7/05/2015	D15/3523
	Cassia Glades - Kwinana Town Centre - Lot 26 Meares Ave	D15/25908	21/04/2015	D14/88094
	Cassia North - Durrant Ave - Parmelia	D16/43343	13/06/2017	D16/28444
	Lot 9237 Parmelia Stage 2	D17/37005	7/06/2017	D17/37042
Orelia	Lot 505 Dargin Place Orelia	D15/33072	24/05/2015	D15/43297

APPENDIX 4

CITY OF KWINANA

STANDARD OPERATIONAL PROCEDURES

SOP-01:

MOSQUITO LARVAE PRE-TREATMENT SURVEY

OBJECTIVE: To monitor mosquito breeding within the City of Kwinana to determine if there is a need for the application of larvicide to minimise mosquito larvae numbers.

EQUIPMENT:

EQUIPMENT CHECKLIST	
Item	Tick
Larval dippers	
Small vials with stopper tops	
Map of sites to be visited	
Notebook, labels, pens	
GPS and digital camera	
Pre-treatment larval data sheets	
Mobile telephone	
Water pH and salinity tester	
Personal Protective Equipment	

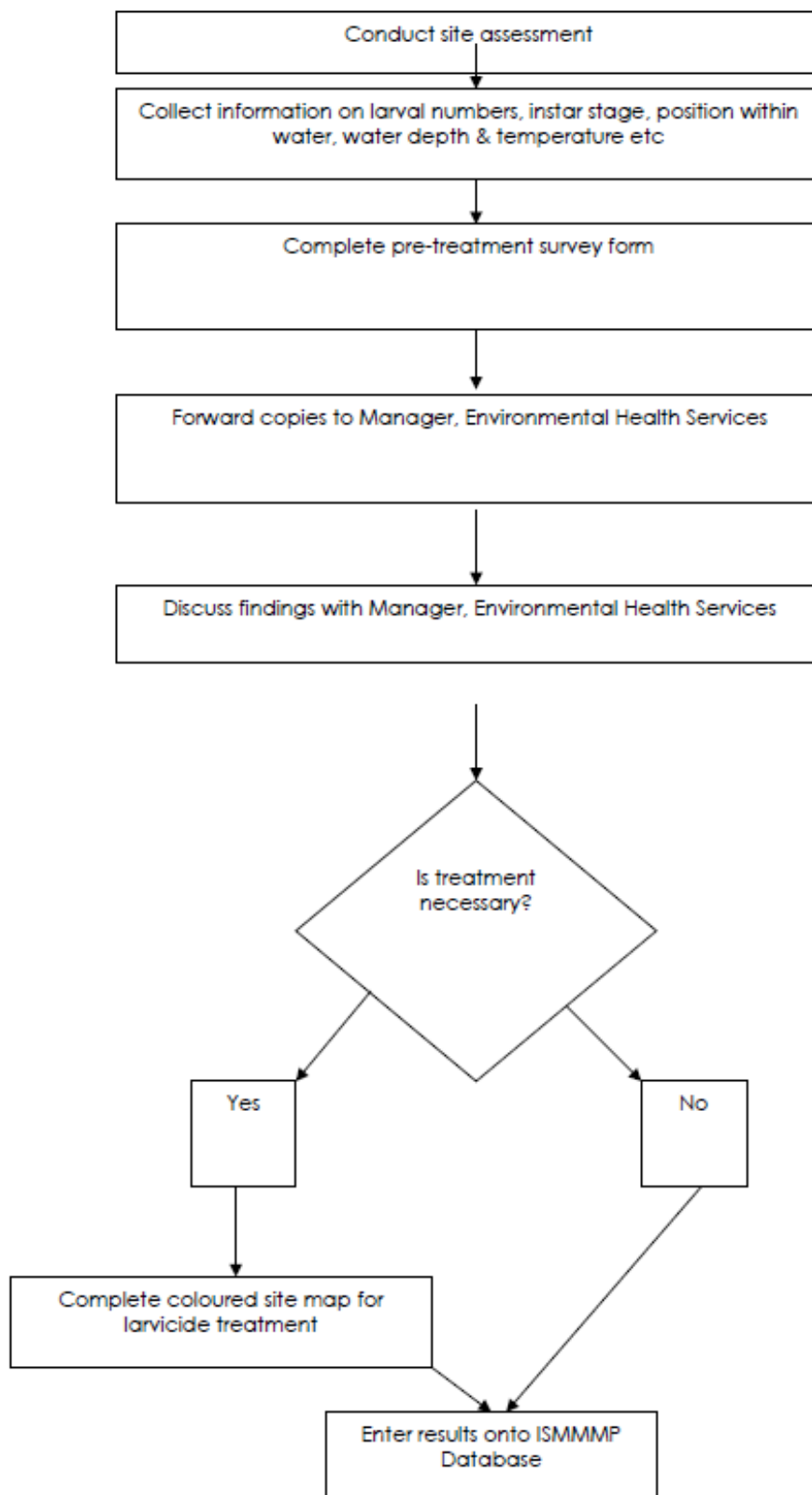
PROCEDURE:

1. Access each breeding area/breeding site as indicated in **Map of Proposed Mosquito Monitoring Sites**.
2. Using the **Pre-treatment Larval Data Sheet**, record date/time, weather conditions, GPS co-ordinates, pH, salinity and water temperature.
3. Take samples from water body using the larval dipper at different points around the wetland and at various depths.
4. Determine number of mosquito larvae per m².
5. Note your findings on the pre-treatment survey form.
6. Discuss findings with the Manager Environmental Health Services Section.
7. Determine if treatment is necessary and or possible.
8. Using an aerial photograph of the wetland, mark down which breeding areas are to be treated and the larval concentration (i.e. high, medium and low breeding) required for treatment.
9. Enter results on ISMMMP database.

Performance Indicators / Evaluation of Task:

WORKLOAD INDICATOR:

Number of surveys completed



SOP 2:

HAND APPLICATION OF LARVICIDE

OBJECTIVE: To minimise the numbers of mosquito larvae by dispersing chemical larvicide via a hand operated mechanical pack.

EQUIPMENT:

EQUIPMENT CHECKLIST	
Item	Tick
Larvicide chemicals	
Catch bags	
Sieve	
Ground tarpaulin	
Anemometer	
Electronic scales	
Calculator	
Pre-marked maps of sites to be treated	
Tape measure	
Funnels and catch containers	
PPE	
Field treatment data record sheets	
Site maps	
Larval dippers	
PPE - hat, overalls, visor or eye protection, respirator or dust mask (read label instruction on larvicide container to determine what is required), gloves, PVC boots	
Larvicide to be used (this should be stored in a lockable storage box on the vehicle).	
MSDS for any larvicide to be used	
Sufficient water (if the larvicide requires dilution with water)	
Container of petrol (if four stroke motorised equipment being used or petrol plus two stroke mix if two stroke motorised equipment being used).	

PRIOR TO LEAVING BASE

- Check on vector control map the location of the area to be treated.
- Check that all equipment to be used is in good working order.
- Calibrate the equipment per manufacturer's instructions to the output rate required.
- Read and be conversant with the rate of application, any restrictions noted on the label.

If in doubt ask a supervisor. Prior to leaving base ensure that all OH&S procedures are followed for working in remote/isolated areas. It is preferable that staff do not work alone in these areas.

The field operator should:

- Advise base of the exact order that sites will be visited.
- Ensure that protocols are set up regarding contact timeframes for the operator to check in with the base. These must be adhered to so that if a field operator does not contact base at any scheduled time, this can be followed up by the base.

PROCEDURE ONSITE:**NOTE: Ensure that spill/cleanup kit is to hand before commencing**

1. Check weather conditions and ensure that they are suitable for treatment.
2. Undertake larval check with dipper to confirm larvae are present.
3. Measure treatment area.
4. Calculate amount of larvicide required.
5. Record above information on the larval treatment data sheet.
6. Record date/time, weather conditions, GPS co-ordinates on the larval data sheet.
7. Set out warning signs.
8. Mix required larvicide (do this away from sensitive areas and on plastic sheet if granules used).
9. Apply larvicide at recommended rates.
10. Carry out continual check on flow/application rates especially at each fill up to ensure that correct rate is being applied.
11. Record amount of larvicide used on data sheet.
12. Collect and store all equipment on vehicle.
13. Undertake final check of site to ensure that nothing has been left behind.

WHEN SURVEY WORK IS COMPLETED ADVISE BASE THAT THE SURVEY TEAM IS LEAVING THE REMOTE/ISOLATED AREA AND HEADING BACK TO BASE

BACK AT BASE:

Advise base that survey team has returned from the field.

- Store any unused larvicide in original containers in chemical storage area.
- Clean and store equipment.
- Transfer data on data sheets to main program database.

Performance Indicators / Evaluation of Task:

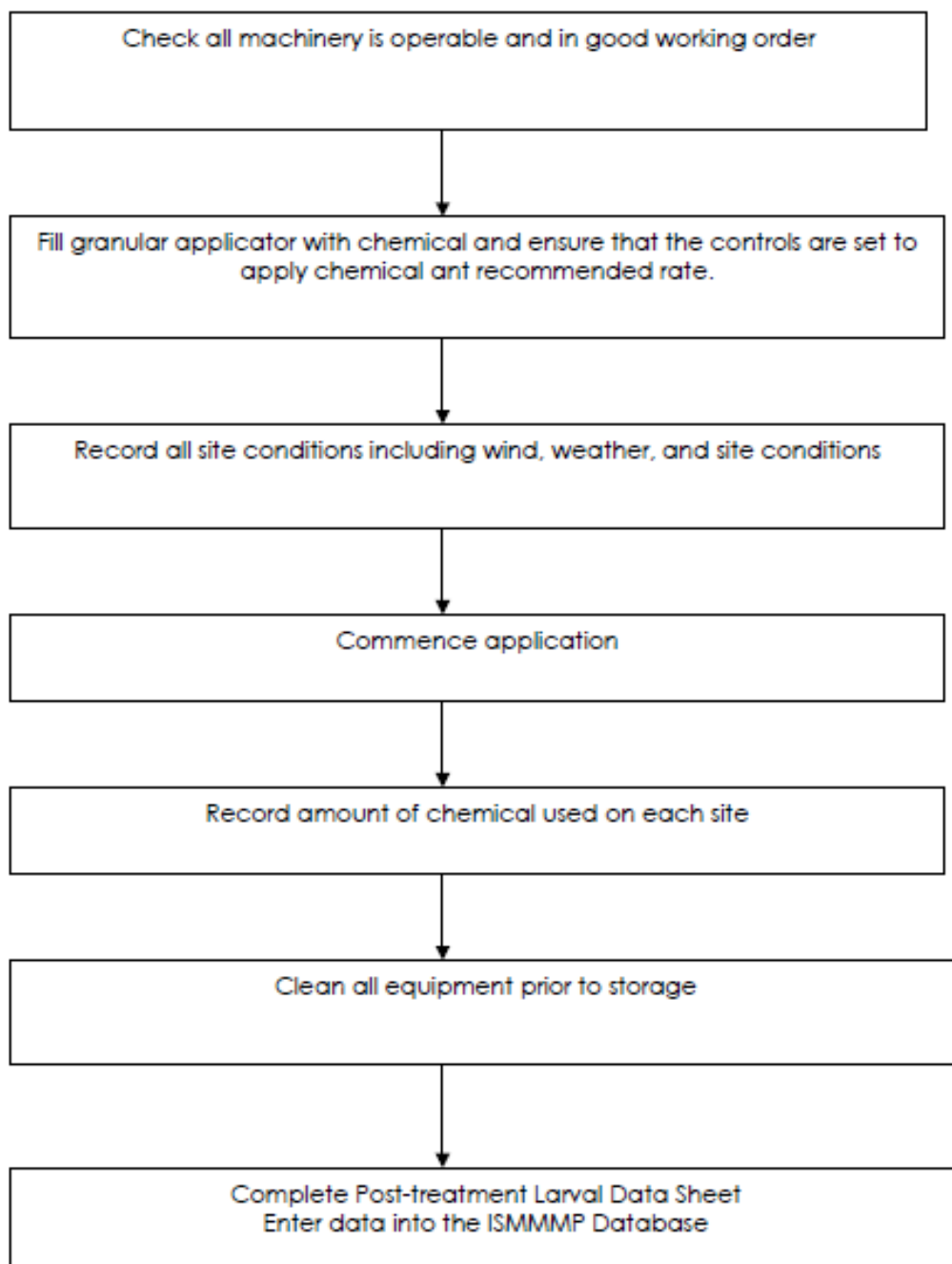
WORKLOAD INDICATORS:

Amount of area treated

Volume of larvicide used

EFFICIENCY/EFFECTIVENESS INDICATORS:

Percentage of larvae controlled



SOP-03:

POST-TREATMENT LARVAL MONITORING

OBJECTIVE: To determine the effectiveness of the application of larvicide.

EQUIPMENT:

EQUIPMENT CHECKLIST	
Item	Tic k
Larval dippers	
Map of sites to be visited	
Notebook, labels, pens, pencils	
GPS and digital camera	
Larval data sheets (to be completed for each site)	
Mobile phone (ensure that battery is charged)	
PVC boots	
Overalls	

PROCEDURE:

1. Access each treated breeding area/breeding site as indicated in **Map of Proposed Mosquito Monitoring Sites**
2. Take various samples from water body at different points around the pool and at various depths.
3. Determine number of mosquito larvae per m².
4. Determine position within the pond (i.e. at the edge or widespread).
5. Hand-treat any areas which were missed by the aerial application.
6. Note your findings on the Post-treatment Larval Data Sheet, also identifying larvicide used.
7. Collect larvae/pupae samples if a growth hormone inhibitor has been used.
8. Forward copy of the results to the Manager Environmental Health Services.
9. Determine if re-treatment is necessary and/or possible.
10. Enter data onto the ISMMMP database.

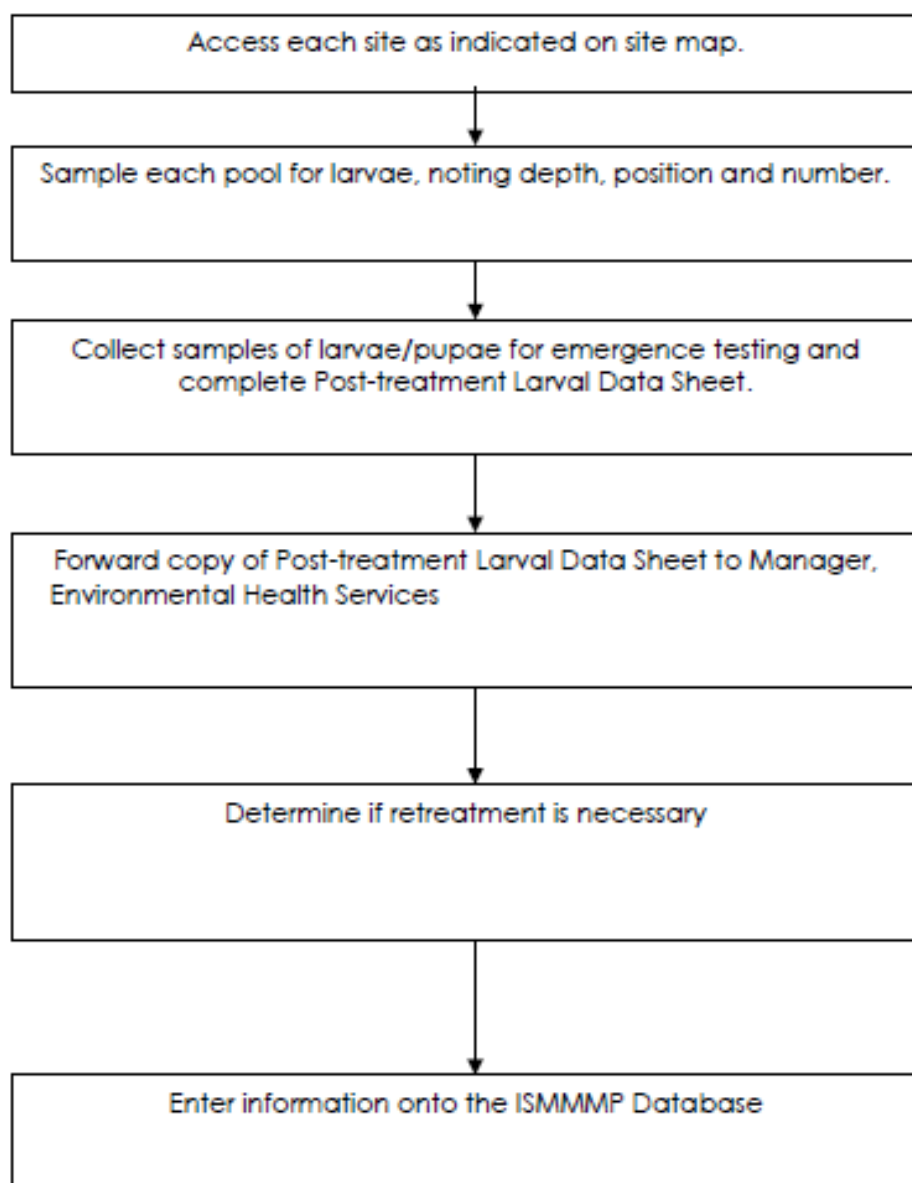
Performance Indicators / Evaluation of Task:

WORKLOAD INDICATOR:

Number of sites sampled per day

EFFICIENCY/EFFECTIVENESS INDICATORS:

Number of non-affected larvae still present



SOP-04:

ADULT MOSQUITO TRAPPING

OBJECTIVE: To determine the severity/nuisance factor of the adult mosquito in residential areas by the use of CO₂ traps to collect mosquitoes for identification.

EQUIPMENT:

EQUIPMENT CHECKLIST	
Item	Tic k
Dry ice	
Eskies	
Small trowel or similar to aid filling the trap with dry ice	
Spare trap rotors	
Spare trap catch baskets, dry ice containers, motor units	
D cell batteries	
Map of sites to be visited	
Notebook, pens, pencils	
GPS and digital camera	
Trap data sheets (to be completed for each site)	
Mobile phone (ensure that battery is charged)	
Hat	
PVC boots	
Overalls	

PRIOR TO LEAVING BASE

Order dry ice. Depending on the supplier this may need to be done the day before the monitoring traps are to be set. Generally 2kg of dry ice per three traps should be sufficient, however in hot weather at least 1kg per trap should be used. The efficiency of the esky used to store the dry ice must also be considered plus the temperature and the length of time taken to complete the monitoring schedule for that day. Dry ice does evaporate therefore if the operator is likely to be out in the field for a number of hours in hot weather up to 1.5kg of dry ice per trap may be required. It is preferable to slightly over estimate the amount required. Ideally the dry ice should be picked up from the supplier just before it is to be used.

Prior to leaving base ensure that all OH&S procedures are followed for working in remote/isolated areas. It is preferable that staff do not work alone in these areas.

The field operator should:

- Advise base of the exact order that sites will be visited.
- Ensure that protocols are set up regarding contact timeframes for the operator to check in with the base. These must be adhered to so that if a field operator does not contact base at any scheduled time, this can be followed up by the base.

PROCEDURE ONSITE:

1. Collect Dry Ice.
2. Replace old (marked) battery with new battery and mark other battery (used).
3. Test that the motor, light and fan are in good working order. Repair/replace if damaged/inoperative.
4. Go to sites marked on map - **Map of Proposed Mosquito Monitoring Sites.**
5. Fill container with dry ice and hang from tree or other adjacent structure. Hang out of public view if possible.
6. Note weather conditions and time was set on **Adult Mosquito Data Sheet.**
7. Leave trap overnight.
8. Collect trap the next morning, noting time collected, weather conditions and if the motor was still running. Disconnect catch container from the motor unit ensuring that no mosquitoes escape.
9. Empty remaining dry ice into the esky.
10. Place catch containers into the esky to kill the mosquitoes.

BACK AT BASE

Advise base that survey team has returned from the field.

☐ Count number of mosquitoes per catch container and identify the mosquitoes present. It is important that the mosquitoes are kept frozen. The content of each catch basket can be transferred to smaller specimen jars and stored after the jar has been labelled with the date, trap number and location of the trap site.

- If there is an excessive number of mosquitoes, weigh 200 and correlate weight to number of mosquitoes.
- Note results onto data form.
- Enter results onto database.
- Send copy of the results to Manager, Environmental Health Services.

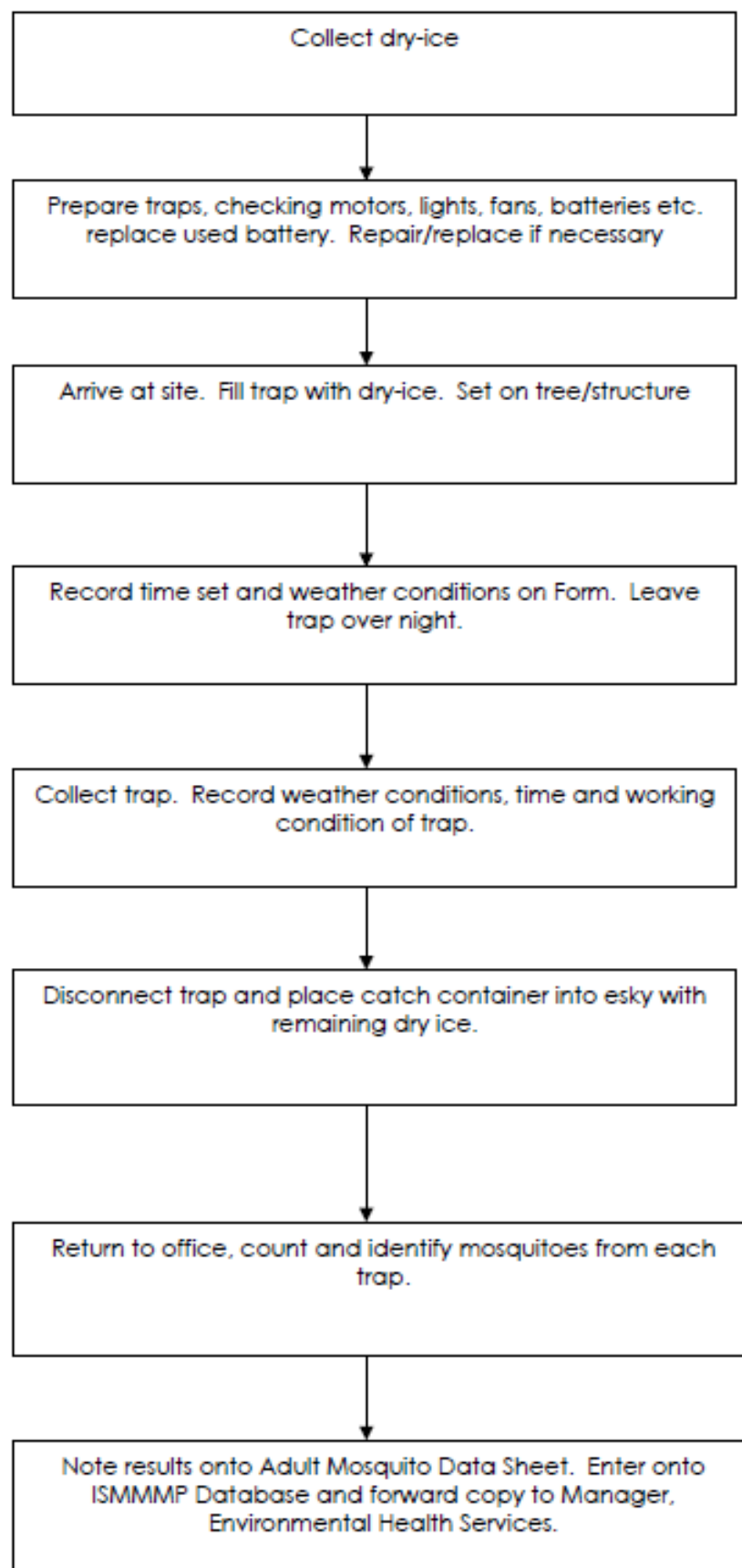
Performance Indicators / Evaluation of Task:

WORKLOAD INDICATOR:

Number of trapping runs conducted over the mosquito season.

EFFICIENCY/EFFECTIVENESS INDICATORS:

Number of mosquitoes captured.



SOP-05:

ADULTICIDE FOGGING

OBJECTIVE: To minimise public health disease risk of mosquitoes both within residential and wetland areas within the City of Kwinana during emergencies and outbreaks under the advice of Department of Health.

EQUIPMENT:

EQUIPMENT CHECKLIST	
Item	Tick
Fogging Unit	
Chemical and water	
Fuel	
Map of sites to be visited	
Notebook, labels, pens, pencils	
GPS and digital camera	
Larval data sheets (to be completed for each site)	
Mobile phone (ensure that battery is charged)	
PVC boots	
Overalls	

PROCEDURE (to be carried out by licensed pest controller):

1. Check weather including wind conditions.
2. Check and start motor to ensure that the unit is in good working order. Repair/replace any defective parts.
3. Fill the chemical tank with adulticide chemical and water/dilutant to the correct concentration as specified by the manufacturer.
4. Start at the required area to be treated.
5. Start motor, turn on chemical flow and adjust to output desired.
6. When finished flush with water.
7. Record chemical usage, weather information and areas covered onto **Adulticide Fogging Data Sheet**.
8. Enter details onto ISMMMP database.
9. Advise all Environmental Health staff by e-mail.

Performance Indicators / Evaluation of Task:

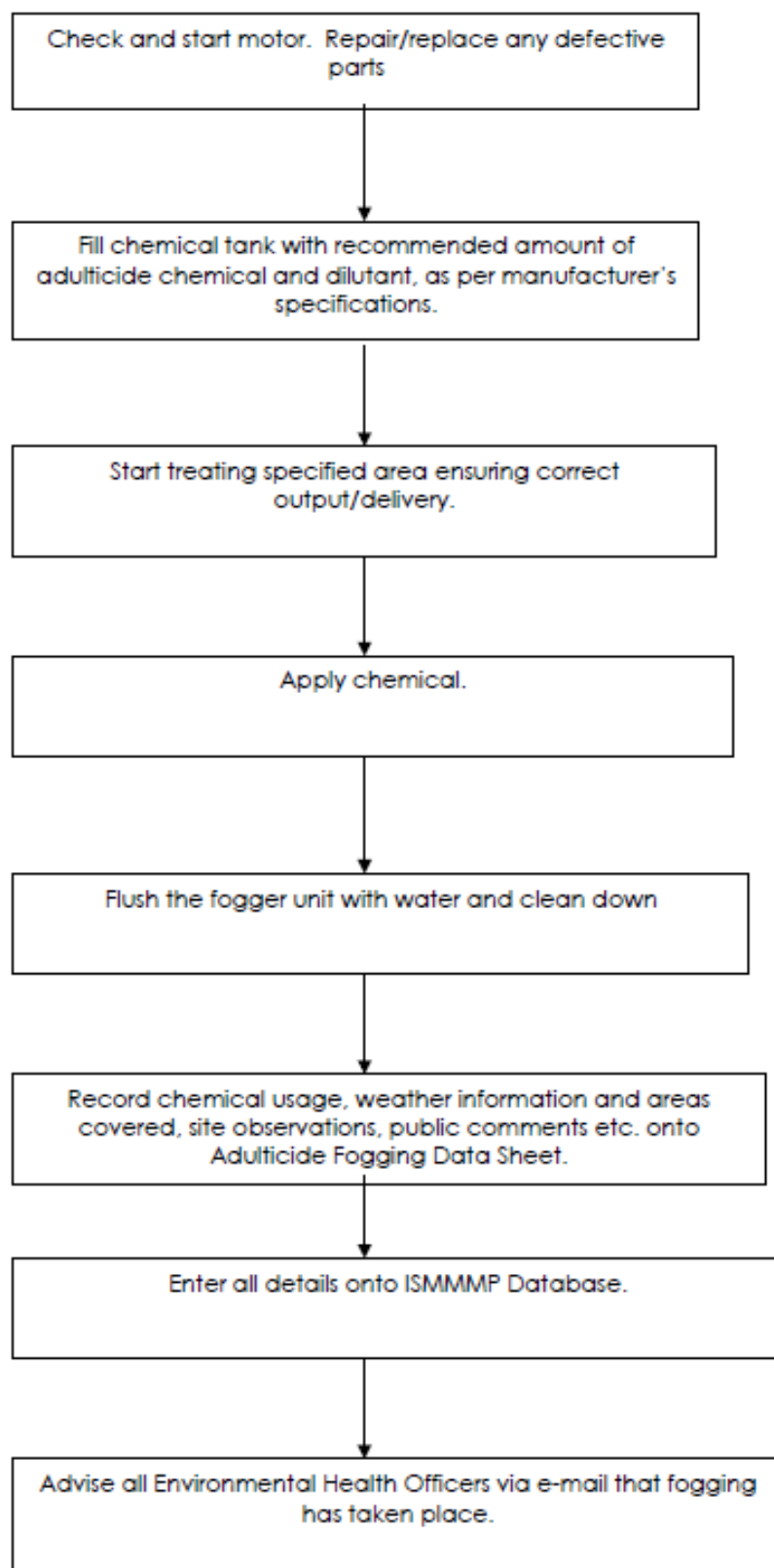
WORKLOAD INDICATOR:

Amount of area fogged

Volume of Adulticide used

EFFECTIVENESS/EFFICIENCY INDICATOR:

Reduction in number of adult mosquitoes caught in traps
Reduction in number of complaints from residents



SOP-06:

MIDGE LARVAE SURVEY

OBJECTIVE: To monitor midge breeding within the City of Kwinana to determine if there is a need for the application of larvicide to minimise midge larval numbers.

EQUIPMENT:

EQUIPMENT CHECKLIST	
Item	Tick
Corer	
Small vials with stopper tops	
Map of sites to be visited	
Notebook, labels, pens, pencils	
GPS and digital camera	
Larval data sheets (to be completed for each site)	
Mobile phone (ensure that battery is charged)	
Water pH and salinity tester	
Thermometer	
PVC boots	
Overalls	

PROCEDURE:

Using the **Midge Monitoring Field Sheet**, record date/time, weather conditions, GPS co-ordinates, pH, salinity and water temperature.

Take samples from water body using the corer at different points around the wetland and at various depths.

Determine number of midge larvae per m².

Note your findings on the **Midge Monitoring Field Sheet**.

Discuss findings with the Manager, Environmental Health Services Section.

Determine if treatment is necessary and or possible.

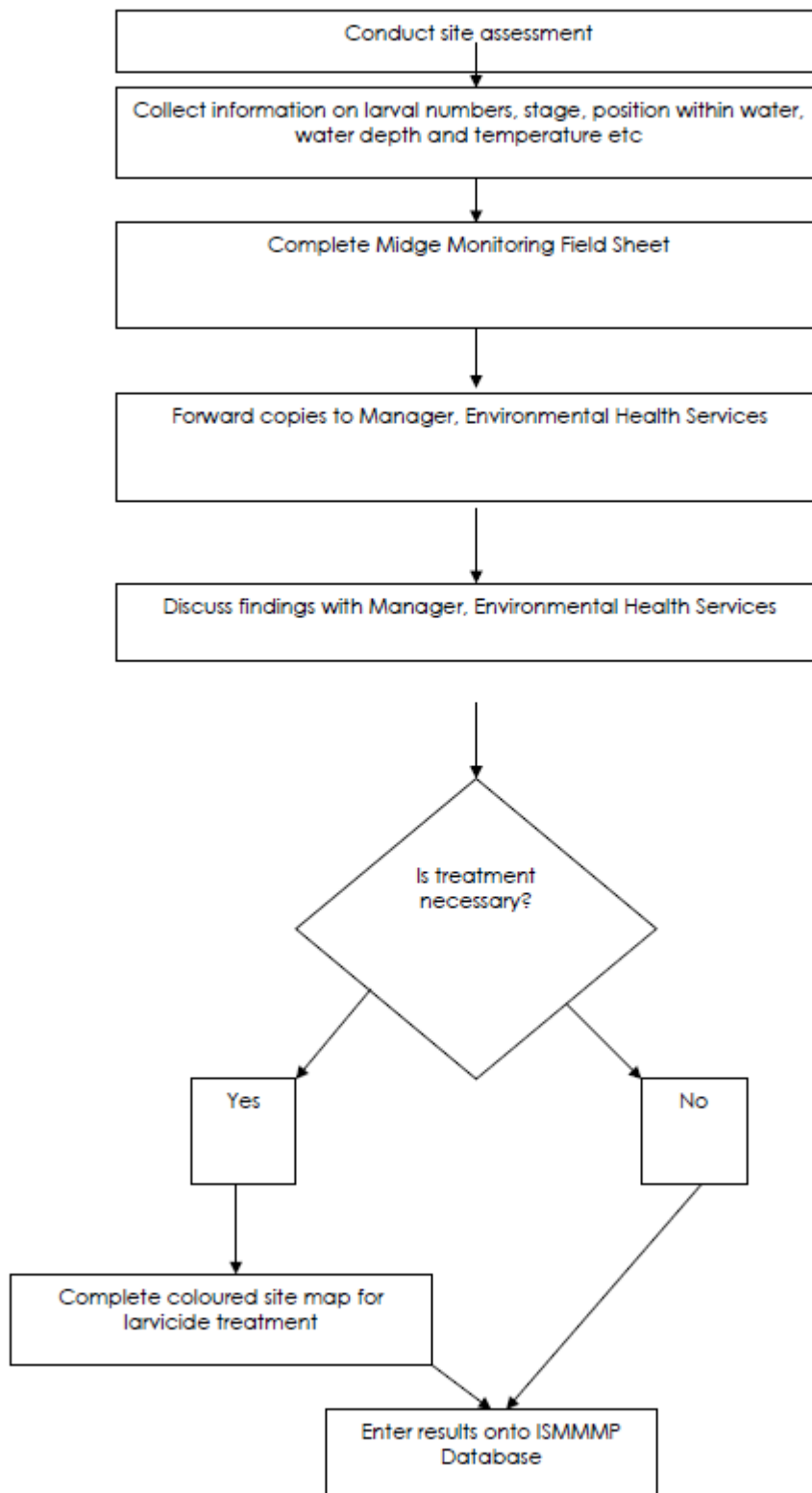
Using an aerial photograph of the wetland, mark down which breeding areas are to be treated and the larval concentration (i.e. high, medium and low breeding) required for treatment.

Enter results on ISMMMP database.

Performance Indicators / Evaluation of Task:

WORKLOAD INDICATOR:

Number of surveys completed



APPENDIX 5

DATA SHEETS

CITY OF KWINANA				Form 1: Pre-Treatment Larval Data Sheet												Date:		Start:		Finish:							
Site name or number	WATER DEPTH				WATER QUALITY			LARVAL DENSITY (/m²)					DISTRIBUTION					INSTARS (%)						SPECIES			COMMENTS
	0-10	10-25	25-50	>50	Temp (°C)	pH	Conductivity (mS/cm)	<10	10-100	100-1000	1000-10000	>10000	estimated total area of site (m²)	Edge (use '1' to indicate)	Widespread (use '1' to indicate)	estimated % of site with larvae	area requiring treatment (m²)	I	II	III	IV	Pupae	Total	Anopheles	Aedes	Culex	
Site 1 -																	0						0				
Site 2 -		1			-	6.09	21.29				1			1			0	100					100				1ST INSTARS RESTRICTED TO SHALLOW ISOLATED POOLS NEAR EDGE
Site 3 -																	0						0				
Site 4 -			1							1				1			0				20	80	100				ADULTS PRESENT
Site 5 -		1						1									0						0				NO LARVAE PRESENT
Site 6 -		1						1									0						0				NO LARVAE PRESENT
Site 7 -																	0						0				
Site 8 -																	0						0				
Site 9 -		1				6.02	9.05			1							0	20	20	20	20	20	100				
Site 10 -																	0						0				
																	0						0				
Totals	0	4	1	0				2	0	2	1	0	0	2	0	#DIV/0!	0	20	20	20	20	20	100				
Mean					####	6.1	15.2																				
%	0.0	80.0	20.0	0.0				40.0	0.0	40.0	20.0	0.0						20.0	20.0	20.0	20.0	20.0	100				
Rainfall (during 3 weeks prior to survey)				Wind				Temperature (°C)				Tides															
Amount (mm) 37.6				Direction NW				Air: 16.2				Last High Tide:															
Dates SEPTEMBER				Speed 30				Humidity: 68																			

CITY OF KWINANA

Treatment date:
Start time:
Finish time:
Treatment Number :
Weather Conditions
Wind speed:
Wind direction:
Temperature:
Cloud cover:
Larvicide
Batch number:
Colour:
Quantities captured (catchbag):
Rate/Hectare:
Helicopter Company:
Pilot:
Ground Crew:
Air Field:

DATA SHEET-03: FIELD TREATMENT RECORD (HAND APPLICATION)

Treatment No	Time out	TIME IN	Areas treated	Area ha	Quantity kg	General Comment
1						
2						
3						
4						
5						
6						
7						
8						
Total						

CITY OF KWINANA

Treatment date:
Start time:
Finish time:
Treatment Number :
Weather Conditions
Wind speed:
Wind direction:
Temperature:
Cloud cover:
Larvicide
Batch number:
Colour:
Quantities captured (catchbag):
Rate/Hectare:
Helicopter Company:
Pilot:
Ground Crew:
Air Field:

DATA SHEET-03: FIELD TREATMENT RECORD (AERIAL APPLICATION)

Treatment No	Time out	TIME IN	Areas treated	Area ha	Quantity kg	General Comment
1						
2						
3						
4						
5						
6						
7						
8						
Total						

CITY OF KWINANA				Data Sheet-04 Post-Treatment Larval Data Sheet												Date:		Start:		Finish:								
Site name or number	WATER DEPTH				WATER QUALITY			LARVAL DENSITY (/m²)					DISTRIBUTION				INSTARS (%)						SPECIES			COMMENTS		
	0-10	10-25	25-50	>50	Temp (°C)	pH	Conductivity (mS/cm)	<10	10-100	100-1000	1000-10000	>10000	estimated total area of site (m²)	Edge (use '1' to indicate)	Widespread (use '1' to indicate)	estimated % of site with larvae	area requiring treatment (m²)	I	II	III	IV	Pupae	Total	Anopheles	Aedes		Culex	
Site 1 -																	0						0					
Site 2 -		1			-	6.09	21.29				1			1			0	100					100				1ST INSTARS RESTRICTED TO SHALLOW ISOLATED POOLS NEAR EDGE	
Site 3 -																	0						0					
Site 4 -			1							1				1			0				20	80	100				ADULTS PRESENT	
Site 5 -		1						1									0						0				NO LARVAE PRESENT	
Site 6 -		1						1									0						0				NO LARVAE PRESENT	
Site 7 -																	0						0					
Site 8 -																	0						0					
Site 9 -		1				6.02	9.05			1							0	20	20	20	20	20	100					
Site 10 -																	0						0					
																	0						0					
Totals	0	4	1	0				2	0	2	1	0	0	2	0	#DIV/0!	0	20	20	20	20	20	100					
Mean					####	6.1	15.2																					
%	0.0	80.0	20.0	0.0				40.0	0.0	40.0	20.0	0.0						20.0	20.0	20.0	20.0	20.0	100					

Rainfall (during 3 weeks prior to survey)
Amount (mm)
Dates SEPTEMBER

Wind
Direction
Speed

Temperature (°C)
Air:
Humidity:

Tides
Last High Tide:

Date On: _____

CITY OF KWINANA
Data Sheet-05: Adult Mosquito Trap Field Record

Technician Init: _____

		Equipment #		Environmental			Wind		Status		Comments
Site #	Locn	Trap	Engine	Time set off	Temp set off	Cloud Cover %	Speed (m/s)	Direction	Ice	Run	
on											
off											
on											
off											
on											
off											
on											
off											
on											
off											
on											
off											
on											
off											
on											
off											

Comments

SITE CODE _____

CITY OF KWINANA
DATA SHEET-06: ADULT MOSQUITO SPECIATION RECORD

DATE _____

Project #	Site #	Sample Date		weight (g)		count	
Species Collected	>100	100 count	total	M	F		
1 Ae alboannulatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
2 Ae camptorhynchus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
3 Ae notoscriptus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
4 Ae vigilax	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
5 Cx annulirostris	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
6 Cx australicus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
7 Cx globocoxitus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
8 Cx quinquefasciatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
9 Cs atra	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
10 An annulipes	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
11 Cq species near linealis	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
12 _____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		

Project #	Site #	Sample Date		weight (g)		count	
Species Collected	>100	100 count	total	M	F		
1 Ae alboannulatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
2 Ae camptorhynchus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
3 Ae notoscriptus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
4 Ae vigilax	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
5 Cx annulirostris	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
6 Cx australicus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
7 Cx globocoxitus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
8 Cx quinquefasciatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
9 Cs atra	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
10 An annulipes	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
11 Cq species near linealis	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
12 _____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		

Project #	Site #	Sample Date		weight (g)		count	
Species Collected	>100	100 count	total	M	F		
1 Ae alboannulatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
2 Ae camptorhynchus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
3 Ae notoscriptus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
4 Ae vigilax	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
5 Cx annulirostris	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
6 Cx australicus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
7 Cx globocoxitus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
8 Cx quinquefasciatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
9 Cs atra	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
10 An annulipes	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
11 Cq species near linealis	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
12 _____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		


Project #	Site #	Sample Date		weight (g)		count	
Species Collected	>100	100 count	total	M	F		
1 Ae alboannulatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
2 Ae camptorhynchus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
3 Ae notoscriptus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
4 Ae vigilax	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
5 Cx annulirostris	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
6 Cx australicus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
7 Cx globocoxitus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
8 Cx quinquefasciatus	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
9 Cs atra	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
10 An annulipes	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
11 Cq species near linealis	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		
12 _____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>		

CITY OF KWINANA

Treatment date:
Start time:
Finish time:
Treatment Number :
Weather Conditions
Wind speed:
Wind direction:
Temperature:
Cloud cover:
Larvicide
Batch number:
Colour:
Quantity:
Rate/Hectare:

DATA SHEET-07: ADULTICIDE FOGGING TREATMENT RECORD

Treatment No	Time out	TIME IN	Areas treated	Area ha	Quantity kg	General Comment
1						
2						
3						
4						
5						
6						
7						
8						
Total						

DATE: ____/____/____	Depart Base: _____	<u>WEATHER</u>	RANKINE MOSQUITO MANAGEMENT	Page ____ of ____
PROJECT: ____-____	Arrive Site: _____	WIND: Speed ____ m/s	CLOUD: ____ % cover	
Recorder: ____ Entered: ____	Return Base: _____	Dirn ____	RAIN: Previous 24 hours Y / N ____ mm	

Identifier		Water Quality						Midge Sampling			Comments
Time	Stn. #	Calibrate ?	pH (units)	Temp (°C)	Cond (milliS)	Salinity (PPT)	Over Scale	Sample ?	Adults present	Depth (cm)	
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		
		Y / N					Y / N	Y / N	Y / N		

Comments / Notes	Images Saved: ____ - ____ - ____
-------------------------	---

Date: ____/____/____
Project: ____-____

RANKINE MOSQUITO MANAGEMENT Midge Laboratory Results



SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	
SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	
SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	
SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	
SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	
SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	SITE <input type="text"/>	Chironomidae larvae <input type="text"/>	Chironomidae pupae <input type="text"/>	Ceratopogonidae larvae <input type="text"/>	TOT

APPENDIX 6

SIGNED MEMORANDUM OF UNDERSTANDING FOR CLAG



Memorandum of Understanding

Southern Metropolitan Contiguous Local Authorities Group (CLAG)

Objective:

This Memorandum of Understanding (MoU) recognises the formation of the Southern Metropolitan Contiguous Local Authorities Group (CLAG) to achieve effective management and control of mosquitoes jointly across the Cities of Cockburn and Kwinana. This MoU outlines the requirements for the formation of a CLAG, how the CLAG will function, the principle stakeholders involved, the responsibilities of each stakeholder, the establishment of meeting protocol, the establishment of funding protocol and list of contacts for each stakeholder. By signing the MoU, all parties are in agreement to the formation and responsibilities each member brings to the CLAG.

Commencement of this MOU:

This MOU shall take effect on and from the date that it is signed by all Principal Stakeholders.

Review and amendment of this MOU:

The Principal Stakeholders will review the operation of this MOU at intervals of no more than five (5) years, with a view to improving its operation and resolving any issues that may arise.

The MOU may be amended at any time in writing by agreement of all the Principal Stakeholders.

Requirements for the successful formation of a single LG CLAG:

To be considered for eligibility, a group of Local Governments (LGs) must approach the Mosquito Control Advisory Committee (MCAC) with a proposal to form a CLAG. In this proposal, the LGs, in conjunction with the Department of Health (DoH), need to demonstrate shared concerns and a willingness to work together to facilitate mosquito management throughout both LGs boundaries. The following requirements must be demonstrated for the formation of a joint LGs CLAG:

- a public health risk from mosquitoes (locally acquired cases of mosquito-borne disease);
- a knowledge of mosquito breeding sites within the LGs area;
- an appropriate Mosquito Management Plan (MMP); and
- LGs demonstrate and recognise a common mosquito problem across their borders.

CLAG function:

It is confirmed that the LGs agree on the functions and activities performed by the CLAG and will:

- form a calendar of events from the start to the end of the mosquito season with a minimum of two meetings to be held each season;
- select a Chairperson as the figurehead of the CLAG and for the submission of funding applications;
- determine a Vice-Chairperson for the CLAG in case of absence of the Chairperson;
- rotate the Chairperson and Vice-Chairperson every one to two years to reduce the impact on staffing requirements and levels;
- select a secretary to document incoming and outgoing communications for each CLAG meeting; and
- agree on a Terms of Reference (ToR) for the function and agenda of the CLAG meetings.

City of Cockburn:

The City of Cockburn is located about 24 kilometres south of Perth's central business district. The City covers an area of 167.5 square kilometres from high density residential suburbs in the north to less dense semi-rural areas in the south. The City of Cockburn has a population of approximately 108,000 (2015 est), which represents an increase of around 17% over the previous 5 years.

A significant proportion of the Beeliar Regional Park is located in the City of Cockburn, which is comprised of two chains of wetlands and depressions behind the coastal dune system stretching in a north south direction. Many of these wetlands are known to be potential mosquito breeding sites and previous mosquito trapping by the City of Cockburn has identified potential disease carrying mosquito species in the region.

The overall average annual age standardised rate of 44 cases of Ross River virus per 100,000 population per year between 2005/06 and 2014/15 was similar to the average annual rate across the State over the same period of 41 cases per 100,000 population per year. The disease risk varies significantly in between years with the most recent RRV outbreak occurring with 111 RRV cases in 2011/12 (Figure 1) which were primarily centred in suburbs to the east of Thomsons Lake including Success, Hammond Park, Atwell and Aubin Grove. Thomsons Lake is located next to a large reserve for marsupials, which are the primary natural host for RRV transmission cycles. Spatial analysis of the cases showed that the RRV rate increased significantly within 3km of Thomsons Lake compare to the City as a whole. Therefore in some years mosquito management is an important priority in the City of Cockburn.

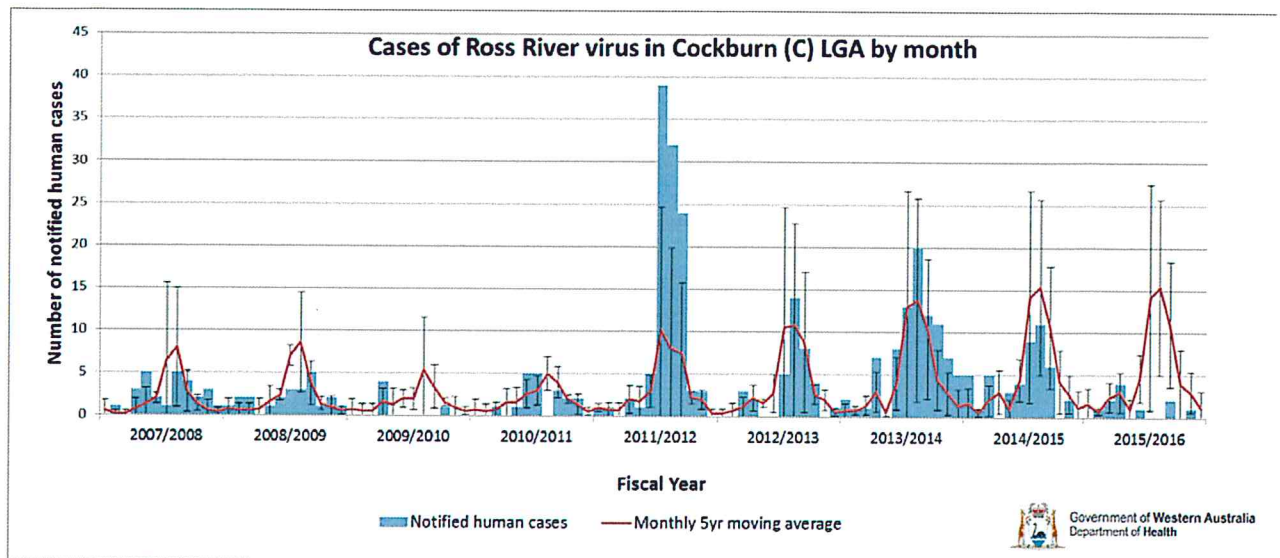


Figure 1: Notified human cases of RRV in City of Cockburn since 2007/08 compared to the 5 year moving average

City of Kwinana:

The City of Kwinana, a local government area within the Perth metropolitan area, covers an area of approximately 118 km² and is located approximately 40 km to the south of the Perth CBD. The population of Kwinana is approximately 37,000 (2015 est) and is expected to increase to 70,000 within the next decade. Currently, an average of 1,000 new residential lots are being released to the market each year to cater for the population increase and many of these lots are being constructed in close proximity to naturally occurring wetlands.

The Beeliar Regional Park stretches down into the City of Kwinana and includes a large number of permanent and seasonal wetland systems which have the potential to support mosquito breeding. The physical attributes of water bodies such as wetlands, including nutrient enrichment and degradation, are known to be major factors in contributing to the density of mosquito larvae found in wetlands and stagnant pools.

An adult mosquito monitoring program in the City of Kwinana that was undertaken in 1991-92 identified that a number of mosquito species which are known vectors of Ross River virus (RRV) and Barmah Forest virus (BFV) were present within the City's boundaries. The City regularly monitors (EVS/CO₂ traps) five sites for adult mosquitoes and two sites for larval dipping.

The overall average annual age standardised rate of 53 cases of Ross River virus per 100,000 population per year between 2005/06 and 2014/15 was higher than the average annual rate across the State over the same period of 41 cases per 100,000 population per year. The RRV disease risk tends to be more consistent across years with no significant disease outbreak occurring (Figure 2). This risk could be also expected to increase as the local population of susceptible persons increases rapidly over time.

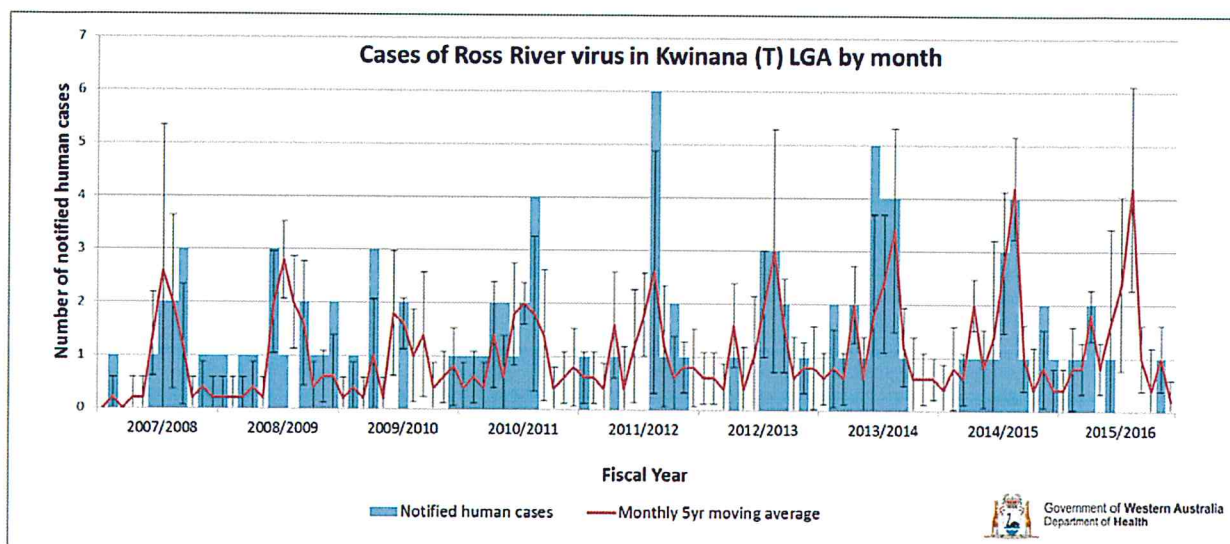


Figure 2: Notified human cases of RRV in City of Kwinana since 2007/08 compared to the 5 year moving average.

Principle Stakeholders:

This MoU covers the following stakeholders;

- City of Cockburn;
- City of Kwinana; and
- Department of Health, Western Australia

Responsibilities of the Principle Stakeholders:

Department of Health, Western Australia

The DoH can provide a range of financial support and advice depending on the health risk associated with the CLAG. In considering this, the DoH may provide the following funding options to the CLAG:

- 50% of the cost of larvicides for aerial and ground larviciding activities each year;

- negotiated funding between State Government and the CLAG for earthworks to reduce mosquito breeding;
- negotiated funding for the purchase of mosquito treatment equipment; and
- 100% of the cost of helicopter hire for approved aerial treatments in high disease risk areas.

The DoH may also assist the CLAG through the provision of:

- staff to assist in ground surveillance exercises to locate mosquito breeding sites (both natural and man-made);
- assistance in the development or revision of a Mosquito Management Plan (MMP) for the associated Local Government/s;
- advice on local issues and possible remedies;
- discussion on the best treatment options (including adulticides/larvicides that are available);
- assistance with the identification of difficult adult and larval mosquitoes from surveillance monitoring processes (with advice from relevant specialists as required);
- staff attendance and advice at CLAG meetings; and
- other advice as required or when requested.

Responsibilities of the Principle Stakeholders:

Local Governments (City of Cockburn and City of Kwinana)

Local Governments will contribute the following to the CLAG:

- a single CLAG funding submission and cover letter requesting funds on or before the 31st July each year;
- establish a single finance account (including a trust account) at one base (one of the LGs);
- invoice the associated LGs and DoH for their contributions to the funding scheme when budgets are approved;
- 50% of the cost of larvicides for aerial and ground larviciding activities each year;
- a further 10% of requested funding each year to be vested in a single CLAG trust account:
 - the trust account was developed as part of the CLAG scheme to enable LGs to access extra funds in years where mosquito-borne disease/nuisance is greater than normal (requiring extra funds that weren't budgeted for);

- the use of funds in the trust account will be negotiated between the CLAG and the DoH following a written request by the CLAG to DoH for access to the funds;
- through negotiation with DoH, the CLAG may agree to a “capped” trust account. Once this amount is reached further funds for the trust account are not required, until the CLAG accesses the funds, in which case the 10% top-up would begin in the following budget until the threshold is reached again.
- maintain records of chemical use and treatment dates for the following years funding application;
- conduct adult and larval mosquito surveys in alignment with their Mosquito Management Plan and provide results to the DoH on a regular basis; and
- collaborate with and support (through the provision of advice or other means) other members of the CLAG in an effort to improve mosquito management within the CLAG’s jurisdiction.



This Memorandum of Understanding (MoU) is supported by:

The Department of Health, Western Australia

Mr Jim Dodds
Director
Environmental Health Directorate

Signed

Date
(dd/mm/yyyy)



This Memorandum of Understanding (MoU) is supported by:

The City of Cockburn

[Name]
Chief Executive Officer

Signed

Date
(dd/mm/yyyy)

This Memorandum of Understanding (MoU) is supported by:

The City of Kwinana

JOANNE ABBISS

[Name]

Chief Executive Officer

Signed



Date

5/10/16

(dd/mm/yyyy)

Contact List for Principle Stakeholder:

Name	Organisation	Position/Title	Contact Details
Dr Michael Lindsay	Department of Health, WA	Managing Scientist Environmental Health Hazards Unit	PO Box 8172 Perth Business Centre, Western Australia 6849 Tel: 08 9285 5507 Fax: 08 9383 1819 Mob: 0418 926 363 Email: Michael.Lindsay@health.wa.gov.au
Dr Peter Neville	Department of Health, WA	Medical Entomologist Medical Entomology Environmental Health Hazards Unit	PO Box 8172 Perth Business Centre, Western Australia 6849 Tel: 08 9285 5510 Fax: 08 9383 1819 Mob: 0438 866 400 Email: Peter.Neville@health.wa.gov.au
Dr Andrew Jardine	Department of Health, WA	Senior Scientific Officer Medical Entomology Environmental Health Hazards Unit	PO Box 8172 Perth Business Centre, Western Australia 6849 Tel: 08 9285 5504 Fax: 08 9383 1819 Mob: 0475 947 163 Email: ryan.janes@health.wa.gov.au
Mr Nick Jones	City of Cockburn	Manager Environmental Health Environmental Health Services	PO Box 1215 Bibra Lake DC Western Australia 6163 Tel: 08 9411 3443 Fax: 08 9411 3333 Mob: 0417 955 830 Email: njones@cockburn.wa.gov.au
Mr Chris Tanner	City of Kwinana	Co-ordinator of Health and Waste Services Environmental Health Department	PO Box 21 Kwinana Western Australia 6167 Tel: 08 9439 0249 Fax: 08 9439 0222 Mob: 0411 078 279 Email: chris.tanner@kwinana.wa.gov.au

15 Reports – Built Infrastructure

15.1 Adoption of Amended Local Development Plan – Stage 8, Sunrise Estate Wellard

DECLARATION OF INTEREST:

There were no declarations of interest declared.

SUMMARY:

A request to amend the Local Development Plan (LDP) for Stage 8, Sunrise Estate, Wellard (see Attachment A for Location Plan) has been received for the consideration of Council under the City of Kwinana Local Planning Scheme No.2 (LPS2) (refer Attachments B and C). Council at its Ordinary Council Meeting held on 23 March 2016 originally approved the LDP and subsequently at its Ordinary Council Meeting held on 27 June 2018 (Attachments D and E) Council approved an amendment to the approved LDP.

The LDP for Sunrise Estate Stage 8 has been amended further to remove vehicle access restrictions to Lots 465 to 467 and a designated garage location has been included on Lot 466 due to the location of a pram ramp on the footpath to the eastern side of the property.

City Officers have assessed the draft amended LDP and are supportive on the basis that it is consistent with similar LDPs approved throughout the City.

OFFICER RECOMMENDATION:

That Council approves the amended Local Development Plan for Stage 8, Sunrise Estate, Wellard as per Attachments B and C, pursuant to Clause 52(1) (a) of Schedule 2 – Deemed Provisions for Local Planning Schemes of the *Planning and Development (Local Planning Schemes) Regulations 2015*.

DISCUSSION:

Land Status

Local Planning Scheme No 2:

Residential R25 and R40

Metropolitan Region Scheme:

'Urban' Zone

Background

Council originally approved the LDP for Stage 8, Sunrise Estate, Wellard on 23 March 2016 (see Attachment A for Location Plan). A subsequent amendment to the LDP was approved by Council at its Ordinary Council Meeting held on 27 June 2018 (Attachments D and E) to update lot configurations, designated garage locations and Bushfire Attack Level requirements.

This current amendment to the LDP is a result of the amalgamation of several lots that form part of the LDP. The amended subdivision design increased the lot widths of Lots 465 to 467 to 15m, which allows for vehicle access via the front of the property from Equinox Loop and the blue line indicating vehicle access restrictions to Lot 465 to 467 has been removed. Due to this access change, Lot 466 requires a designated garage location, as a pram ramp is located in the front verge to the eastern side of the property.

15.1 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN – STAGE 8, SUNRISE ESTATE WELLARD

The removal of the access restriction to the front of the property will provide increased flexibility for construction on the lots and provides the purchaser with a wider selection of dwelling designs on any of the properties subject to this LDP.

Conclusion

City Officers have assessed the draft amended LDP and are supportive on the basis that it is consistent with similar LDPs approved throughout the City.

LEGAL/POLICY IMPLICATIONS:

For the purpose of Councillors considering financial or impartiality interests, the landowner is Armana Holdings Pty Ltd and the applicant is Lorraine Elliot Planning Services.

The following statutory and policy based documents were considered in assessing the application:

- City of Kwinana Local Planning Scheme No. 2
- *Planning and Development (Local Planning Schemes) Regulations 2015*
- Wellard East Local Structure Plan
- State Planning Policy No. 3.1 (Residential Design Codes of Western Australia)
- Liveable Neighbourhoods Operational Policy
- WAPC Planning for Bushfire Protection Guidelines (Edition 2) (2010)
- WAPC Draft Planning for Bushfire Risk Management Policy
- Local planning and other related policies

FINANCIAL/BUDGET IMPLICATIONS:

There are no financial or budget implications as a result of this application.

ENVIRONMENTAL IMPLICATIONS:

The LDP encourages the use of passive solar urban design. Trees have been retained within the road reserves where possible and additional street trees will be required for all lots. There is no change to these provisions arising from the amended LDP.

STRATEGIC/SOCIAL IMPLICATIONS:

This proposal will support the achievement of the following outcome and objective detailed in the Strategic Community Plan.

15.1 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN – STAGE 8, SUNRISE ESTATE WELLARD

Plan	Outcome	Objective
Strategic Community Plan	A well planned City.	4.4 Create diverse places and spaces where people can enjoy a variety of lifestyles with high levels of amenity.

COMMUNITY ENGAGEMENT

The current LDP was approved on the 27 June 2018. All lots affected by the changes to the approved LDP are in the ownership of the developer and it was not considered necessary to advertise the LDP. It is not considered that these amendments affect the amenity of the adjoining property owners.

RISK IMPLICATIONS:

Risk Event	Appeal of Council's decision on the draft amended LDP.
Risk Theme	Failure to fulfil statutory regulations or compliance requirements Providing inaccurate advice/ information.
Risk Effect/Impact	Reputation Compliance
Risk Assessment Context	Strategic
Consequence	Minor
Likelihood	Possible
Rating (before treatment)	Low
Risk Treatment in place	Reduce - mitigate risk
Response to risk treatment required/in place	Work instructions in place and checklists used when assessing the application. Consideration of the application within the statutory timeframes. Compliance of the proposal with Local Planning Scheme No.2, R-Codes, Wellard East Local Structure Plan, Bushfire Guidelines and relevant Policies. Liaising with the applicant throughout the application process.
Rating (after treatment)	Low

15.1 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN – STAGE 8, SUNRISE ESTATE WELLARD

COUNCIL DECISION

282

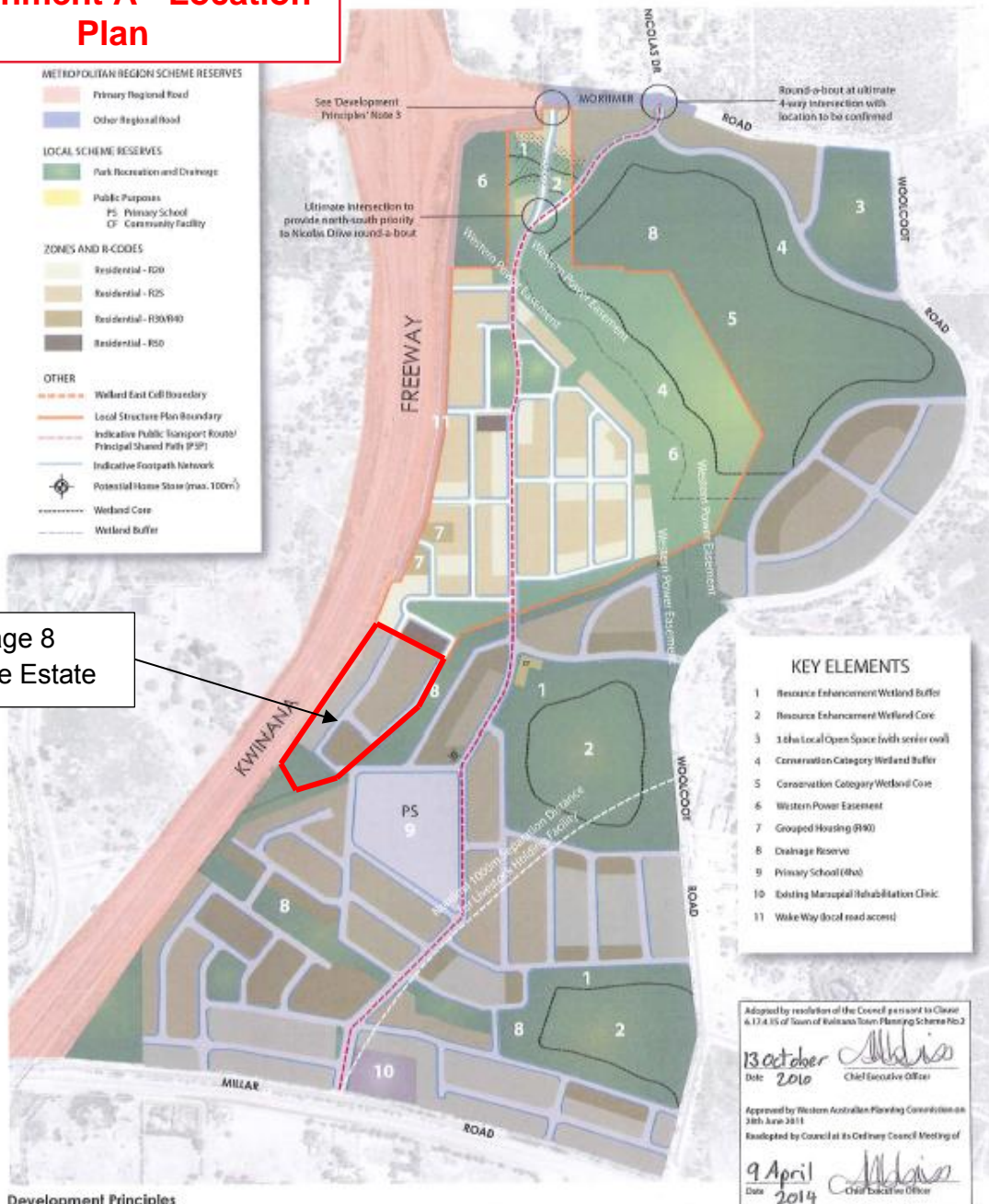
MOVED CR W COOPER

SECONDED CR M ROWSE

That Council approves the amended Local Development Plan for Stage 8, Sunrise Estate, Wellard as per Attachments B and C, pursuant to Clause 52(1) (a) of Schedule 2 – Deemed Provisions for Local Planning Schemes of the *Planning and Development (Local Planning Schemes) Regulations 2015*.

**CARRIED
8/0**

Attachment A - Location Plan



Stage 8
Sunrise Estate



**Attachment B - Amended
Local Development Plan**

LEGEND

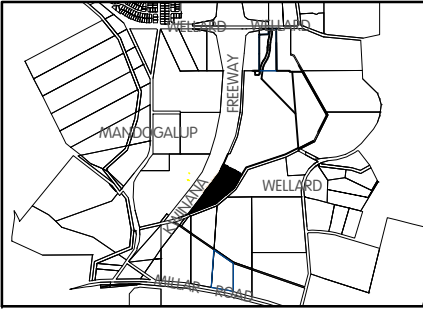
- Residential Density - R25
- Residential Density - R40
- No Vehicular Access
- Primary Street Development Frontage*
- Designated garage and carport location
- Easement
- Outdoor Living Area*
- Noise Insulation required, refer to Table 1

NOTE: * In accordance with the variations on plan 2

KEY

BAL Rating

- BAL affected lot
- Asset Protection Zone applicable



LOCATION PLAN ■ SUBJECT AREA

This Local Development Plan has been adopted by Council and signed by the Principal Planner:

Principal Planner
City of Kwinana

Date

LOCAL DEVELOPMENT PLAN PROVISIONS

The following design requirements shall apply in conjunction with the requirements annotated on the plan. The provisions in the Local Development Plan (LDP) comprise additional Residential Design Code "Acceptable Development" provisions.

Unless varied in the LDP, a proposal shall be designed and assessed in accordance with the Residential Design Codes, City of Kwinana Town Planning Scheme No. 2 and/ or local planning policies.

1. R-CODE VARIATIONS		
a) Minimum Open Space		
R25		35%
R40		30%
For the purposes of determining open space as defined in the R-Codes, site coverage includes the floor area of all buildings, alfresco and permanent roof covered patio areas and outbuildings.		
2. SETBACK PROVISIONS		
	Minimum	Maximum
a) Dwelling		
- Primary Street		
R25	3.0m	5.0m
R40	2.0m	4.0m
- Secondary Street		
R25	1.0m	
R40	1.0m	
b) Boundary Walls (Parapets)	Refer to point 11.	

General Provisions

Garages/Carports

- Where a lot abuts a rear laneway, vehicle and/or garage access must be from the rear laneway unless otherwise indicated on this LDP.
- If Lots 465, 466 and/or 467 are resubdivided or redeveloped with additional dwellings then any rear lot or dwelling shall obtain access from the rear laneway only. Also, if Lots 465, 466 and/or 467 are resubdivided or redeveloped down the middle resulting in frontages less than 10m then access to all the new lots or dwellings shall be obtained from the rear laneway only.
- If Lot 466 obtains access from Equinox Loop then it's to be as per the designated garage location, otherwise access is permitted from the rear laneway
- Where lots have a frontage of 12 metres or less, garages/ carports may exceed 50% of the primary lot frontage to a maximum of 60% of the primary lot frontage.
- All garages and carports are to be setback a minimum of 1.0m behind the front building line (measured from the front most habitable room on the primary street elevation and not the projection of a feature)
- Where garages and carports exceed 50% of the primary lot frontage, they shall comply with the following:
 - A clear indication of the dwelling entrance.
 - The dwelling entrance shall be the dominant feature of the facade, and shall include a projecting portico or veranda with a minimum depth of 1.5 metres.
- All garages are to have doors to enclose them.
- Garage/Carport side setback - 2.0m minimum secondary street setback for lot 468.
- Garage/Carport rear setback - 0.5m minimum setback (1.0m for lots 464 and 469)

Building Form and Orientation

- Where lots abut public open space, an outdoor living area is to be provided with a minimum depth of 4 metres abutting the public open space. Courtyards abutting public open space are to be uncovered for a minimum of 3 metres from the boundary of the open space. Courtyards are not required to extend the full extent of the POS boundary.
- Where lots overlook public open space, dwellings are to be situated so at least one habitable room is oriented towards the public open space in order to provide adequate passive surveillance of that open space.
- Dwellings are to suitably address all street frontages and areas of public open space through the use of high quality architectural design features.
- For all lots, a nil side setback is permissible to one side boundary behind the primary street setback line to a minimum of 4 metres from the rear boundary, unless otherwise designated on the LDP or where this boundary is to a secondary street. Where possible, nil setbacks should be positioned on the boundary that maximises solar access to the dwelling. The City of Kwinana may vary the location of the nil setback line where appropriate to achieve specific design outcomes.
- Garages are permitted to have a nil side setback to one boundary. The garage nil side setback is not required to be on the same nil side setback boundary as the dwelling.

- For lots with a frontage of 12 metres or less, nil setbacks are permitted to both side boundaries simultaneously.
- Where a nil side setback is permissible but not proposed, side setbacks shall conform to the requirements of the R-Codes.
- For corner lots, where the major dwelling entry (front door) is oriented toward the secondary street, secondary street setbacks still apply. Primary street setbacks apply to the other street, as designated on this LDP.

Storage

- All R40 coded lots shall be provided with a 4m² store, which shall comply with the requirements of Part 5.4.5 of the R Codes.

Fencing

- Fencing along side and rear boundaries where the property adjoins the drainage reserve shall be uniform and visually permeable from 0.7m above ground level to 1.8m.
- Fencing along side and rear boundaries where the property adjoins public open space shall be uniform and visually permeable above 1.2m.

Secondary Street Elevation

- Dwellings shall suitably address the secondary street frontage through the use of major openings and permeable fencing up to a distance of 4.0m as measured from the truncation point closest to the secondary street boundary.

Noise Management

- For those lots potentially affected by noise emanating from the Kwinana Freeway, dwellings are to be constructed to comply with the relevant 'Deemed to Comply Noise Insulation Package' specified on this LDP, see Table 1. Noise Insulation Package requirements are set out under the Implementation Guidelines for State Planning Policy 5.4 (SPP5.4).

- The following Noise Insulation Packages apply:

TABLE 1 - QUIET HOUSE DESIGN REQUIREMENTS		
Applicable Lot No.	Noise Insulation Package	
	Ground Floor	Upper Floor
444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462	Package A	Specialist Advice Required
512, 513	Package B	Specialist Advice Required
514, 515, 516	Package C	Specialist Advice Required
469	Package A	Package B
464, 465, 466, 467, 468, 470, 471, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 510, 511	Package A	Package A
472, 473, 482, 483, 484, 485, 486, 503, 504, 505, 506, 507, 508, 509	Package A	Not Applicable

Fire Management

- Dwellings constructed on lots identified as being at risk of bushfire attack under the approved Fire Management Plan and Sunrise Estate Stage 8 BAL Assessment (as amended) shall be constructed to the appropriate BAL rating in accordance with Australian Standard 3959.
- This LDP shall be read in conjunction with the approved Fire Management Plan and Sunrise Estate Stage 8 BAL assessment (as amended).
- For all lots identified in this LDP as subject to a bushfire attack level (BAL) rating, where a second storey is proposed, reassessment of the BAL rating is required.
- Where an Asset Protection Zone (APZ) is designated, the width of the APZ is to be accommodated within the lot as outlined within Stage 8 BAL assessment (as amended). An APZ is a low fuel area immediately surrounding a building. The APZ can include garden or lawn that is regularly maintained and managed to a low fuel level, pavement areas, driveways, swimming pools and other non-vegetation areas. The building and any structures attached to the building (i.e. patios) should not intrude on the APZ. Other structures such as garden sheds can generally be built within an APZ, however the specific construction standard requirements should be determined in accordance with Australian Standard 3959.

This Local Development Plan has been adopted by Council and signed by the Principal Planner:

Principal Planner
City of Kwinana

Date



Attachment D - Approved Local Development Plan

LEGEND

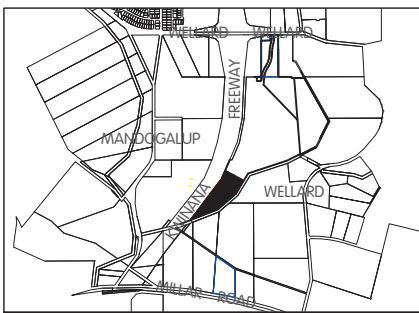
- Residential Density - R25
- Residential Density - R40
- No Vehicular Access
- Primary Street Development Frontage*
- Designated garage and carport location
- Easement
- Outdoor Living Area*
- Noise Insulation required, refer to Table 1

NOTE: * In accordance with the variations on plan 2

KEY

BAL Rating

- BAL affected lot
- Asset Protection Zone applicable



LOCATION PLAN ■ SUBJECT AREA

This Local Development Plan has been adopted by Council and signed by the Principal Planner:

Principal Planner
City of Kwinana

Date 2 July 2018

LOCAL DEVELOPMENT PLAN PROVISIONS

The following design requirements shall apply in conjunction with the requirements annotated on the plan. The provisions in the Local Development Plan (LDP) comprise additional Residential Design Code "Acceptable Development" provisions.

Unless varied in the LDP, a proposal shall be designed and assessed in accordance with the Residential Design Codes, City of Kwinana Town Planning Scheme No. 2 and/ or local planning policies.

1. R-CODE VARIATIONS		
a) Minimum Open Space		
R25	35%	
R40	30%	
For the purposes of determining open space as defined in the R-Codes, site coverage includes the floor area of all buildings, alfresco and permanent roof covered patio areas and outbuildings.		
2. SETBACK PROVISIONS		
	Minimum	Maximum
a) Dwelling		
- Primary Street		
R25	3.0m	5.0m
R40	2.0m	4.0m
- Secondary Street		
R25	1.0m	
R40	1.0m	
b) Boundary Walls (Parapets)	Refer to point 11.	

General Provisions

Garages/Carports

- Where a lot abuts a rear laneway, vehicle and/or garage access must be from the rear laneway unless otherwise indicated on this LDP.
- Where lots have a frontage of 12 metres or less, garages/ carports may exceed 50% of the primary lot frontage to a maximum of 60% of the primary lot frontage.
- All garages and carports are to be setback a minimum of 1.0m behind the front building line (measured from the front most habitable room on the primary street elevation and not the projection of a feature)
- Where garages and carports exceed 50% of the primary lot frontage, they shall comply with the following:
 - A clear indication of the dwelling entrance.
 - The dwelling entrance shall be the dominant feature of the facade, and shall include a projecting portico or veranda with a minimum depth of 1.5 metres.
- All garages are to have doors to enclose them.
- Garage/Carport side setback - 2.0m minimum secondary street setback for lot 468.
- Garage/Carport rear setback - 0.5m minimum setback (1.0m for lots 464 and 469)

Building Form and Orientation

- Where lots abut public open space, an outdoor living area is to be provided with a minimum depth of 4 metres abutting the public open space. Courtyards abutting public open space are to be uncovered for a minimum of 3 metres from the boundary of the open space. Courtyards are not required to extend the full extent of the POS boundary.
- Where lots overlook public open space, dwellings are to be situated so at least one habitable room is oriented towards the public open space in order to provide adequate passive surveillance of that open space.
- Dwellings are to suitably address all street frontages and areas of public open space through the use of high quality architectural design features.
- For all lots, a nil side setback is permissible to one side boundary behind the primary street setback line to a minimum of 4 metres from the rear boundary, unless otherwise designated on the LDP or where this boundary is to a secondary street. Where possible, nil setbacks should be positioned on the boundary that maximises solar access to the dwelling. The City of Kwinana may vary the location of the nil setback line where appropriate to achieve specific design outcomes.
- Garages are permitted to have a nil side setback to one boundary. The garage nil side setback is not required to be on the same nil side setback boundary as the dwelling.
- For lots with a frontage of 12 metres or less, nil setbacks are permitted to both side boundaries simultaneously.
- Where a nil side setback is permissible but not proposed, side setbacks shall conform to the requirements of the R-Codes.
- For corner lots, where the major dwelling entry (front door) is oriented toward the secondary street, secondary street setbacks still apply. Primary street setbacks apply to the other street, as designated on this LDP.

Storage

- All R40 coded lots shall be provided with a 4m² store, which shall comply with the requirements of Part 5.4.5 of the R Codes.

Fencing

- Fencing along side and rear boundaries where the property adjoins the drainage reserve shall be uniform and visually permeable from 0.7m above ground level to 1.8m.
- Fencing along side and rear boundaries where the property adjoins public open space shall be uniform and visually permeable above 1.2m.

Secondary Street Elevation

- Dwellings shall suitably address the secondary street frontage through the use of major openings and permeable fencing up to a distance of 4.0m as measured from the truncation point closest to the secondary street boundary.

Noise Management

- For those lots potentially affected by noise emanating from the Kwinana Freeway, dwellings are to be constructed to comply with the relevant 'Deemed to Comply Noise Insulation Package' specified on this LDP, see Table 1. Noise Insulation Package requirements are set out under the Implementation Guidelines for State Planning Policy 5.4 (SPP5.4).
- The following Noise Insulation Packages apply:

TABLE 1 - QUIET HOUSE DESIGN REQUIREMENTS		
Applicable Lot No.	Noise Insulation Package	
	Ground Floor	Upper Floor
444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462	Package A	Specialist Advice Required
512, 513	Package B	Specialist Advice Required
514, 515, 516	Package C	Specialist Advice Required
469	Package A	Package B
464, 465, 466, 467, 468, 470, 471, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 510, 511	Package A	Package A
472, 473, 482, 483, 484, 485, 486, 503, 504, 505, 506, 507, 508, 509	Package A	Not Applicable

Fire Management

- Dwellings constructed on lots identified as being at risk of bushfire attack under the approved Fire Management Plan and Sunrise Estate Stage 8 BAL Assessment (as amended) shall be constructed to the appropriate BAL rating in accordance with Australian Standard 3959.
- This LDP shall be read in conjunction with the approved Fire Management Plan and Sunrise Estate Stage 8 BAL assessment (as amended).
- For all lots identified in this LDP as subject to a bushfire attack level (BAL) rating, where a second storey is proposed, reassessment of the BAL rating is required.
- Where an Asset Protection Zone (APZ) is designated, the width of the APZ is to be accommodated within the lot as outlined within Stage 8 BAL assessment (as amended). An APZ is a low fuel area immediately surrounding a building. The APZ can include garden or lawn that is regularly maintained and managed to a low fuel level, pavement areas, driveways, swimming pools and other non-vegetation areas. The building and any structures attached to the building (i.e. patios) should not intrude on the APZ. Other structures such as garden sheds can generally be built within an APZ, however the specific construction standard requirements should be determined in accordance with Australian Standard 3959.

This Local Development Plan has been adopted by Council and signed by the Principal Planner:


Principal Planner
City of Kwinana

Date 2 July 2018

15.2 Adoption of Amended Local Development Plan No. 5 – Stages 3-5 Honeywood Rise Estate, Wandí

DECLARATION OF INTEREST:

There were no declarations of interest declared.

SUMMARY:

A request to amend the Local Development Plan (LDP) No. 5 for stages 3-5 Honeywood Rise Estate, Wandí (refer Attachment A for Location Plan) has been received under the City of Kwinana Local Planning Scheme No.2 (LPS2) (refer Attachments B and C). The proposal seeks to amend the LDP that was initially adopted by Council at its Ordinary Meeting held on 26 October 2016 (refer Attachments D and E). The LDP area contains a number of lots that are now sold and in private ownership (in particular stage 3), however, the proposed amendments to the LDP relate to lots that are in the ownership of the developer.

The most recent changes to the approved subdivision design include minor changes to the layout for Lots 2153 to 2160, 2166, 2198 and 2199 (shown on the draft amended LDP). The draft amended LDP seeks to update the lot layout so that it is consistent with the approved plan of subdivision (WAPC Ref: 156037) and update designated garage locations for Lots 2212, 2262, 2266, 2269, and 2270 (within stage 4) and Lots 2071, 2138, 2140, 2143, 2166, 2179, and 2200 (within stage 5). Lots that require uniform fencing to be constructed as per the City's Local Planning Policy (LPP) No. 5 - Uniform Fencing Policy have also been identified on the draft amended LDP.

Additional provisions have also been added in accordance with the City's LPP No. 2 – Streetscapes. These provisions relate to requirements for minimum garage setbacks for lots where footpaths adjoin the property boundary and additional design requirements for laneway lots. These provisions apply to lots within stages 4 and 5 only.

The current LDP indicates the lots that are subject to specific building design requirements for bushfire in accordance with the Bush Fire Attack Level (BAL) ratings as specified in the Fire Management Plan for this area. An updated Bushfire Management Plan (BMP) has been prepared for stages 4 and 5 of this development. In line with the City's practice, specific BAL ratings have been removed from the draft amended LDP. Instead, lots affected by a BMP are identified on the LDP, with a requirement for a BAL assessment and certification at the building permit stage.

The draft amended LDP (refer Attachments B and C) has been assessed and supported by City Officers and is recommended for approval.

OFFICER RECOMMENDATION:

That Council approves the Amended Local Development Plan No. 5 for Stages 3-5 Honeywood Rise Estate, Wandí (as per Attachments B and C), pursuant to Clause 52(1)(a) of Schedule 2 – Deemed Provisions for Local Planning Schemes of the *Planning and Development (Local Planning Schemes) Regulations 2015*.

15.2 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN NO. 5 – STAGES 3-5 HONEYWOOD RISE ESTATE, WANDI

DISCUSSION:

Land Status

Local Planning Scheme No 2: Residential R20, R25, R30, and R60
Metropolitan Region Scheme: 'Urban' Zone

Background

A request to amend LDP No. 5 for stages 3-5 Honeywood Rise Estate, Wandi (refer Attachment A for Location Plan) has been received under LPS2 (refer Attachments B & C). The proposal seeks to amend the LDP that was initially adopted by Council at its Ordinary Meeting held on 26 October 2016 (refer Attachments D and E). The proposed changes mainly relate to updated lot configurations as per the current subdivision approval for stages 4 and 5 of this development. The LDP area contains a number of lots that are now sold and in private ownership (in particular stage 3), however, the proposed amendments to the LDP do not affect these lots and are not considered to impact on these lots.

Subdivision approval was granted for stages 3 and 4 of the Honeywood Rise Estate by the WAPC on 14 October 2014. A separate subdivision approval was granted for stage 5 of the Honeywood Rise Estate on 16 June 2014. The current LDP for stages 3-5 Honeywood Rise Estate was subsequently prepared and approved by Council in October 2016 to satisfy the subdivision condition requiring the preparation of LDPs for lots under both subdivision approvals.

Both subdivision approvals were granted for a period of four years, requiring all conditions to have been met and titles issued before the expiry of the approvals. The subdivision approval for stages 3 and 4 is due to expire in October 2018, whilst subdivision approval for stage 5 expired in June 2018. Subdivision clearance has been issued and titles issued for stage 3 of this development, however clearances for stages 4 and 5 are yet to be issued. A new subdivision application was lodged and approved by the WAPC on 18 May 2018 for stages 4 and 5 of this development. The plan of subdivision approved in May 2018 differs slightly from the previous approval`.

The proposed changes to the LDP are as follows;

Lot Layout

The number of R60 laneway lots approved under the previous subdivision approval for stage 5 was changed from eight lots (with frontages ranging from 7.5m to 12m wide) to 10 lots (with lot frontages ranging from 6m to 10m wide) under the current new subdivision approval. These lots are shown on the draft amended LDP as Lots 2153 to 2160, 2198 and 2199, located on Tawny Lane and retain their existing density coding (R60). It is noted that the minimum width of these laneway lots was reduced from 7.5m to 6m.

The most appropriate built form and streetscape outcomes for small lot subdivisions with narrow lot frontages, has been the subject of much discussion with Council and subsequently LPP No.2 was formulated and approved by Council in April 2017. To address design outcomes on these narrow lots (in particular where single level dwellings are proposed), a provision requiring ceiling heights for rooms located on the front elevation having a minimum height of 2.7m was required to allow a greater street

15.2 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN NO. 5 – STAGES 3-5 HONEYWOOD RISE ESTATE, WANDI

presence for single storey dwellings. In addition, all dwelling frontages are required to be articulated, have a mix of building materials and colours or varying roof forms. These provisions have been included on the draft LDP and will help to contribute to achieving a better quality of streetscape and provide a mix of housing designs.

Lot 2166 (within stage 5) was changed from a north to south orientation to an east to west orientation but retains its existing R25 density coding. A vehicle manoeuvring area for this lot is required to be provided within the property boundaries to enable vehicles to exit the property in a forward movement as required by the R Codes. The location of the manoeuvring area within the lot has been indicated on the draft amended LDP.

Designated Garage Locations

Designated garage locations have been amended for Lots 2212, 2262, 2266, 2269, and 2270 (within stage 4) and Lots 2071, 2138, 2140, 2143, 2166, 2179, and 2200 (within stage 5). The designated garage locations have been amended to reflect the engineering drawings that have recently been approved by the City's Engineering Department. The new garage locations are to avoid conflicts with stormwater drainage and other infrastructure within the road reserve and have been approved by the City's Development Engineers.

Local Planning Policy No. 7 - Uniform Fencing

The City's LPP No. 7 – Uniform Fencing was adopted by Council on 25 July 2018. This Policy requires that uniform fencing be provided for lots abutting a Primary or Other Regional Road, or any other Category of Road with a 'Neighbourhood Connector A' or higher classification and direct residential access is not permitted. Lyon Road is classified as a 'Neighbourhood Connector A' under Liveable Neighbourhoods Operational Policy, and as such, lots that abut this road are required to have uniform fencing constructed as per LPP No. 7. The draft amended LDP identifies Lots 2268, 2211, 2212, 2197 (within stage 4) and Lots 2200, 2138 and 2144 (within stage 5) as being subject to uniform fencing provisions. It is noted that the location of fencing is shown as indicative on the draft amended LDP as this may vary depending on the design and orientation of the future dwellings.

Local Planning Policy No. 2 – Streetscapes

The current LDP includes provisions that reflect the requirements of LPP No. 2, in particular regarding location of footpaths and street trees. Stage 3 has been completed, and stage 4 and 5 engineering drawings have been approved by the City's Engineers. The Engineering drawings comply with LPP No. 2.

LPP No.2 requires that where footpaths adjoin the property boundary, garages be setback a minimum of 4.5m from that boundary. The intent of the 4.5m garage setback is to ensure that vehicles parked in the driveway would not obstruct the footpath. In this respect, an additional provision has been incorporated into the draft amended LDP requiring a minimum 4.5m garage setback for lots with footpaths that adjoin the property boundary. This provision applies to lots in stages 4 and 5 where footpaths are proposed to be boundary aligned. Footpaths in stage 3 are kerb aligned, hence this provision does not apply to stage 3 lots.

15.2 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN NO. 5 – STAGES 3-5 HONEYWOOD RISE ESTATE, WANDI

An additional design provision has also been incorporated into the draft amended LDP as required under LPP No. 2. For laneway lots (being Lots 2153-2160 and 2198-2199) on the draft amended LDP, the ceiling height for rooms located on the front elevation is required to be a minimum 32 vertical brick courses (2.7m) to allow a greater street presence for single storey dwellings.

Bushfire Management

The current LDP indicates the lots that are subject to specific building design requirements for bushfire in accordance with the BAL ratings as specified in the FMP for this area. An updated BMP has been prepared for stages 4 and 5 of this development. In line with the City's practice, specific BAL ratings have been removed from the draft amended LDP.

Instead, lots affected by a BMP are identified on the LDP, with a requirement for a BAL assessment and certification at the building permit stage. This approach has been supported by the City's Fire Consultants.

The draft amended LDP (refer Attachments B and C) has been assessed and supported by City Officers and is recommended for approval.

LEGAL/POLICY IMPLICATIONS:

For the purpose of Councillors considering a financial or impartiality interest only, the landowner is Satterley Property Group and the applicant is Rowe Group.

The following strategic and policy based documents were considered in assessing the application;

- City of Kwinana Local Planning Scheme No. 2;
- *Planning and Development Regulations 2015*;
- State Planning Policy No. 3.1 (Residential Design Codes of Western Australia);
- Liveable Neighbourhoods Operational Policy;
- Guidelines for Planning in Bushfire Prone Areas & Appendices 2015; and
- Local planning and other related policies.

FINANCIAL/BUDGET IMPLICATIONS:

There are no financial or budget implications as a result of this application.

ASSET MANAGEMENT IMPLICATIONS:

There are no asset management implications as a result of this application.

ENVIRONMENTAL IMPLICATIONS:

The LDP encourages the use of passive solar urban design. Quiet house design provisions are included in the LDP.

15.2 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN NO. 5 – STAGES 3-5 HONEYWOOD RISE ESTATE, WANDI

STRATEGIC/SOCIAL IMPLICATIONS:

This proposal will support the achievement of the following outcome and objective detailed in the Strategic Community Plan.

Plan	Outcome	Objective
Strategic Community Plan	A well planned City.	4.4 Create diverse places and spaces where people can enjoy a variety of lifestyles with high levels of amenity.

COMMUNITY ENGAGEMENT:

The LDP that is currently enforced was approved on 26 October 2016. All lots that are affected by the proposed changes are in stages 4 and 5, and all are in the ownership of the developer. City Officers did not consider it necessary to advertise the draft amended LDP.

RISK IMPLICATIONS:

The risk implications in relation to this proposal are as follows:

Risk Event	Appeal of Council's decision on the amended LDP.
Risk Theme	Failure to fulfil statutory regulations or compliance requirements. Providing inaccurate advice/ information.
Risk Effect/Impact	Reputation Compliance
Risk Assessment Context	Strategic
Consequence	Minor
Likelihood	Possible
Rating (before treatment)	Low

15.2 ADOPTION OF AMENDED LOCAL DEVELOPMENT PLAN NO. 5 – STAGES 3-5 HONEYWOOD RISE ESTATE, WANDI

Response to risk treatment required/in place	<p>Work instructions in place and checklists used when assessing the application.</p> <p>Consideration of the application within the statutory timeframes.</p> <p>Compliance of the proposal with Local Planning Scheme No.2, R-Codes, Wandi South Local Structure Plan, Bushfire Guidelines and relevant Policies.</p> <p>Liaising with the applicant throughout the application process.</p>
Rating (after treatment)	Low

COUNCIL DECISION

283

MOVED CR D WOOD

SECONDED CR S MILLS

That Council approves the Amended Local Development Plan No. 5 for Stages 3-5 Honeywood Rise Estate, Wandi (as per Attachments B and C), pursuant to Clause 52(1)(a) of Schedule 2 – Deemed Provisions for Local Planning Schemes of the *Planning and Development (Local Planning Schemes) Regulations 2015*.

**CARRIED
8/0**

Attachment A





honeywood rise

Make a natural connection.

The following provisions apply to lots depicted:

R-Coding	R20	
Minimum Open Space	45%	
Site Cover	55%	
Dwelling Setbacks	Minimum (m)	Maximum (m)
Primary Street - Lyon Road	4.0	5.0
Primary Street - Other	3.0	-
Secondary Street	1.0	-

- No average setbacks apply.

The following provisions apply to lots depicted:

R-Coding	R25	
Minimum Open Space	40%	
Site Cover	60%	
Dwelling Setbacks	Minimum (m)	Maximum (m)
Primary Street	3.0	5.0
Secondary Street	1.0	-

- No average setbacks apply.

The following provisions apply to lots depicted:

R-Coding	R30	
Minimum Open Space	35%	
Site Cover	65%	
Dwelling Setbacks	Minimum (m)	Maximum (m)
Primary Street	3.0	5.0
Secondary Street	1.0	-

- No average setbacks apply.

The following provisions apply to lots depicted:

R-Coding	R60	
Minimum Open Space	30%	
Site Cover	70%	
Dwelling Setbacks	Minimum (m)	
Secondary Street	1.0	
Rear Laneway	1.0	
Public Open Space	2.0	

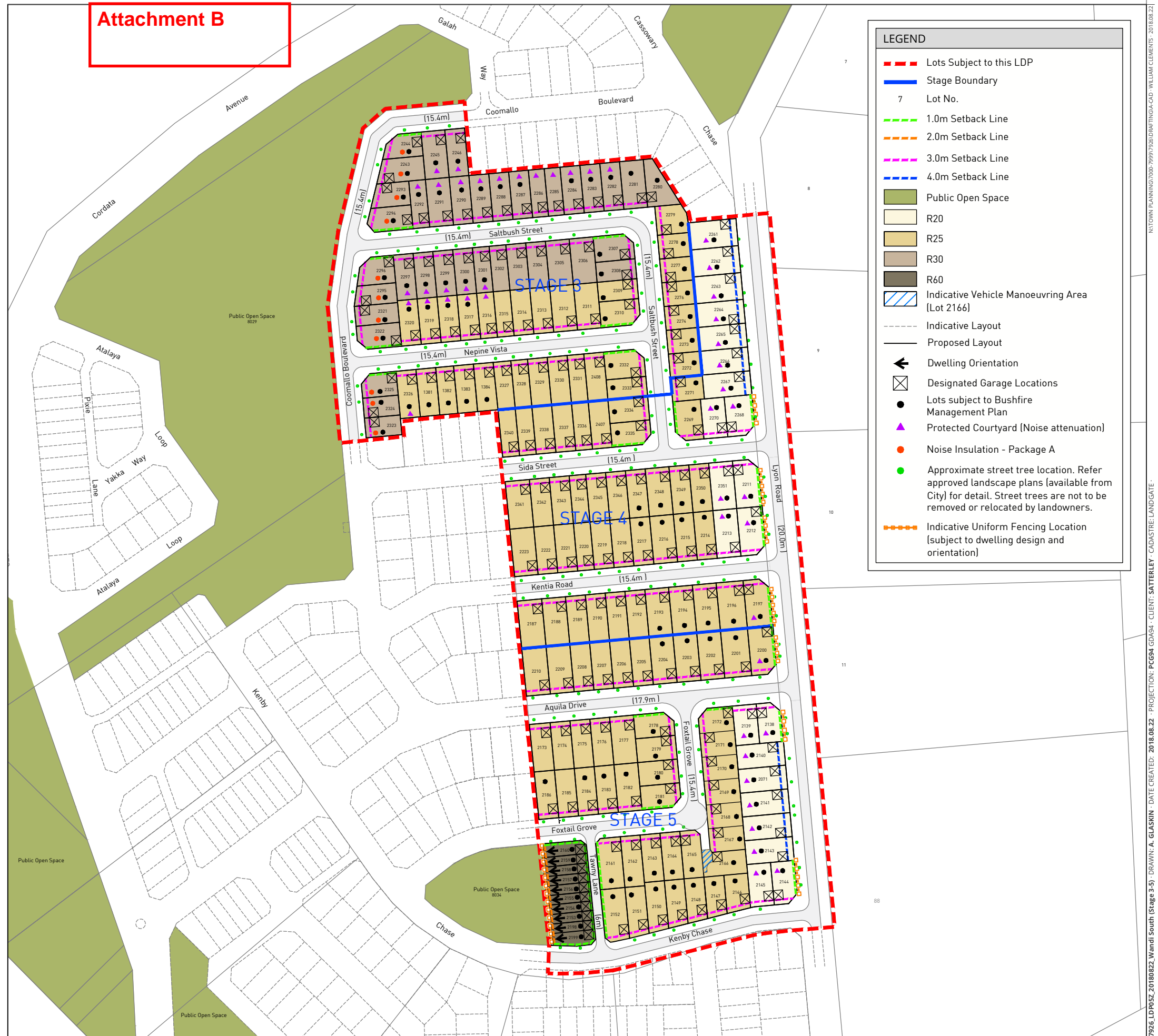
- No average setbacks apply.

This Local Development Plan has been approved by Council under the provisions of the City of Kwinana. Town Planning Scheme No.2 and the Wandii South Local Structure Plan.

Principal Planner: _____

Date: _____

Attachment B



LOCAL DEVELOPMENT PLAN 5

STAGES 3-5 (PLAN 1 OF 2)

WANDI SOUTH



0 62.5 M
SCALE @ A3: 1:2500

7926-LDP-05-Z



While all care has been taken in the compilation of this document, Rowe Group disclaim any responsibility for any errors or omissions. This document is and remains the property of Rowe Group and may not be reproduced or transmitted, in whole or in part, without the written consent of Rowe Group. All areas and dimensions are subject to survey.



honeywood rise

Make a natural connection.

Attachment C

This Local Development Plan (LDP) applies to all lots within Stages 3 to 5 of the Honeywood Rise Estate, Wandi South.

Unless otherwise defined on this LDP, all development shall be in accordance with the City of Kwinana Town Planning Scheme No. 2, the Residential Design Codes, and the Wandi (south) Local Structure Plan.

Unless otherwise varied on this LDP, the relevant density code provisions of the Residential Design Codes (R-Codes) apply to all lots subject to this LDP. The Residential Design Codes do not apply where varied below.

Compliance with the provisions of this LDP negates the need for planning approval for lots of 260m² or less.

Minimum Open Space and Outdoor Living

- For R20 lots, site cover may be increased to 55% subject to the provision of a 30m² outdoor living area (OLA) with a minimum dimension of 4 metres and located behind the front setback area. Minimum 20m² of the OLA is required to be uncovered.
- For R 25 lots, site cover may be increased to 60% subject to the provision of a 30m² outdoor living area (OLA) with a minimum dimension of 4 metres and located behind the front setback area. Minimum 20m² of the OLA is required to be uncovered.
- For R30 lots, site cover may be increased to 65% subject to the provision of a 24m² outdoor living area (OLA) with a minimum dimension of 4 metres and located behind the front setback area. Minimum 16m² of the OLA is required to be uncovered.
- For R60 lots, site cover may be increased to 70% subject to the provision of a 20m² outdoor living area (OLA) with a minimum dimension of 4 metres and located behind the front setback area. Minimum 13m² of the OLA is required to be uncovered.

*NOTE: Site Coverage includes the floor area of all buildings, including alfresco areas and patios.

Garages / Vehicle Access

- Garages are not to be forward of the dwelling alignment. Garages may be aligned with the dwelling provided they do not exceed the dwelling setback line.
- Where footpaths are provided adjacent to the lot boundary garages are to be set back a minimum of 4.5 metres.
- Where a Lot abuts a rear laneway, vehicle and/or garage access must be from the rear laneway unless otherwise indicated on this LDP.
- All garages shall be enclosed with a door.
- The City of Kwinana, by a planning application, may vary the locations of garages designated on this LDP.
- For lot 2166, an appropriate vehicle manoeuvring area is to be provided within the lot boundary to enable vehicles to exit the lot in forward gear.

Setbacks

- For all lots, a nil side setback is permissible behind the primary street setback line to a minimum of 4 metres from the rear boundary, unless otherwise designated on the LDP or where this boundary is to a secondary street. Where possible, nil setbacks should be positioned on the boundary that maximises solar access to the dwelling. The City of Kwinana may vary the location of the nil setback line where appropriate to achieve specific design outcomes. This provision does not apply to Lots 2153 to 2160 and Lots 2198 to 2199. These lots are permitted to have a nil setback for the full extent of the lot boundary, provided the dwelling complies with the R-Codes and this LDP for all other requirements.
- For lots with a frontage of 11 metres or less or where otherwise designated on this LDP, nil setbacks are permitted to both side boundaries simultaneously.
- Garages are permitted to have a nil side setback to one boundary. The garage nil side setback is not required to be on the same nil side setback boundary as the dwelling. Garages are permitted to have a nil side setback to both boundaries for Lots 2153 to 2159 and 2198 only.
- Where a nil side setback is permissible but not proposed, side setbacks shall conform to the requirements of the R-Codes.

- For corner lots, where the major dwelling entry (front door) is oriented toward the secondary street,secondary street setbacks still apply. Primary street setbacks apply to the other street, as designated on this LDP.
- Setbacks may be varied by a planning application for corner lots or where otherwise the configuration of lots limits compliance with the setback requirements.
- For lots with rear access, outdoor living areas may be situated within the building setback area provided they have a minimum length and width of 4 metres, and remain open and uncovered for a minimum of 2 metres from the lot boundary.

Streetscape

- Where lots have a frontage of 12 metres or less, garages may exceed 50% of the primary lot frontage to a maximum of 60% of the primary lot frontage.
- Where garages exceed 50% of the primary lot frontage, they shall comply with the following:
 - A clear indication of the dwelling entrance.
 - The dwelling entrance shall be the dominant feature of the facade, and shall include a projecting portico or veranda with a minimum depth of 1.5 metres.
 - Garages are to be set back at least 0.5 metres behind the dwelling alignment, with the exception of rear laneway lots.
- Where Porticos are provided they may be setback a minimum of 2 meters from the primary street.
- In accordance with the City's Streetscape Policy (LPP2), a minimum of one street tree per lot , and three street trees for corner lots are required. Street trees will be provided by the developer within the road verge, and maintained for a minimum of two years until established. Street trees are to be generally located as shown on this LDP, subject to detailed Landscape design. Refer approved landscape plans (available from City) for detail. Street trees are not to be relocated or removed by landowners.

Fencing

- Front fences within the primary street setback are to be visually permeable above 0.9m, to a maximum height of 1.2m above natural ground level. For secondary street boundaries, fencing shall be visually permeable above 1.2m behind the primary street setback, for a minimum length of 3m behind the truncation, with a habitable room addressing the street.
- Any Estate/ Uniform fencing provided on private lots shall not be modified without written approval from the City of Kwinana, and shall be maintained as visually permeable by landowners where applicable.

Design Elements

- Where sheds and outbuildings do not match the construction materials and colours of the dwelling they are to be screened from public view.
- For lots with an area of 260m² or less, storage areas with a minimum internal area of 4m² and with a minimum dimension of 1.5 metres are to be provided at the time of construction of the dwelling. Storage areas shall be constructed under the main roof of the residence or garage, and shall be accessible from either the exterior or within the garage.
- All dwellings to provide an appropriate high quality design interface with the surrounding streetscape, through the use of at least three of the following architectural design features;
 - Articulation in the dwellings facade (i.e. varied wall setbacks);
 - Minimum of two building materials, colours and/or finishes (e.g. render, brick, cladding);
 - Major habitable room openings incorporating large windows to provide surveillance;
 - Roof forms that incorporate gables;
 - A balcony, portico or verandah; or
 - A built in planter box.

- For Lots 2153 to 2160 and 2198-2199, where vehicle access is gained solely from a rear laneway or right of way, the ceiling height for rooms located on the front elevation shall be a minimum of 32 vertical brick courses (2.7m).

Fire Management

- The land subject to this LDP is within a bushfire prone area, as designated by the Department of Fire and Emergency Services. Those lots identified on this LDP as being subject to a Bushfire Management Plan require a Bushfire Attack Level Assessment and certification prior to construction, in accordance with Australian Standard 3959
- This LDP shall be read in conjunction with the approved Bushfire Management Plan, and any relevant addenda. (Strategen 2018)

Noise Management

- For those lots potentially affected by noise emanating from the Kwinana Freeway and Anketell Road, dwellings are to be constructed with the relevant 'Deemed to Comply Noise Insulation Package' specified on this LDP. Noise Insulation Package requirements are set out under the Implementation Guidelines for State Planning Policy 5.4 (SPP5.4) and Australian Standard AS2107-2000.

Noise Insulation Package	Dwellings to be constructed to comply with Noise Insulation Package in accordance with SPP 5.4 and AS2107-2000.
Package A	Lots 2243 - 2244, 2293 - 2294, 2295 - 2296, 2321 - 2322 and 2323 - 2325

- For those lots identified on the LDP as requiring a protected courtyard, the main outdoor living area is to be located on the most protected facade of the lot/dwelling. Where the main outdoor living area is situated fronting or siding on to a noise source (exceeding 60 dB(A)Leq(16-hour)), a solid 2m high fence (eg. Hardifence pinelap or Colorbond) is required between the outdoor living area and the road for the length of the outdoor living area or as long as required to fully screen the line of view from the outdoor living area to the noise source.
- All dwellings on lots with a frontage of 7.5m or less shall be constructed with the following minimum quiet house design requirements:
 - Walls shall be double leaf cavity brickwork, such as two leaves of 90mm thick bricks with 50mm air gap. Any alternatives shall achieve a minimum Rw50 acoustic rating;
 - Windows shall be minimum 4mm laminated glazing in a high quality residential grade frame to achieve a minimum Rw+Ctr23 acoustic rating;
 - Roof / Ceiling - to be minimum 10mm thick plasterboard with R2.0 insulation between ceiling joists. Combined with roof, acoustic performance to be minimum Rw42;
 - Eaves are to be enclosed using a minimum 4mm thick compressed cement sheeting or equivalent; and
 - Air conditioning units, or the like, must be selected on the basis of quiet operation and units shall be roof mounted on appropriate anti-vibration mounts, or be no more than 1.5m above ground level; or
 - Any alternative construction methods shall be supported by a report undertaken by a suitably qualified acoustic consultant.

This Local Development Plan has been approved by Council under the provisions of the City of Kwinana. Town Planning Scheme No.2 and the Wandi South Local Structure Plan.

Principal Planner: _____

Date: _____

LOCAL DEVELOPMENT PLAN 5

STAGES 3-5 (PLAN 2 OF 2)

WANDI SOUTH

7926-LDP-05-Z



This Local Development Plan (LDP) applies to all lots within Stages 3 to 5 of the Honeywood Rise Estate, Wandl South.

Unless otherwise defined on this LDP, all development shall be in accordance with the City of Kwinana Town Planning Scheme No. 2, the Residential Design Codes, and the Wandl (south) Local Structure Plan.

Unless otherwise varied on this LDP, the relevant density code provisions of the Residential Design Codes (R-Codes) apply to all lots subject to this LDP. The Residential Design Codes do not apply where varied below.

Compliance with the provisions of this LDP negates the need for planning approval for lots of 260m² or less.

Minimum Open Space and Outdoor Living

- Site cover may be increased to 55% (for R20 Lots) subject to the provision of 30m² of outdoor living area with a minimum dimension of 4 metres, two thirds of this area uncovered and located behind the street setback area.
- Site cover may be increased to 60% (for R25 Lots) subject to the provision of 30m² of outdoor living area with a minimum dimension of 4 metres, two thirds of this area uncovered and located behind the street setback area.
- Site cover may be increased to 65% (for R30 Lots) subject to the provision of 24m² of outdoor living area with a minimum dimension of 4 metres, two thirds of this area uncovered and located behind the street setback area.
- Site cover may be increased to 70% (for R60 Lots) subject to the provision of 20m² of outdoor living area with a minimum dimension of 4 metres, two thirds of this area uncovered and located behind the street setback area.

Garages

- Garages are not to be forward of the dwelling alignment. Garages may be aligned with the dwelling provided they do not exceed the dwelling setback line.
- Where a lot abuts a rear laneway, vehicle and/or garage access must be from the rear laneway unless otherwise indicated on this LDP.
- All garages shall be enclosed with a door.
- The City of Kwinana, at the discretion of the Manager-Planning and Development may vary the locations of garages designated on this LDP.

Setbacks

- For all lots, a nil side setback is permissible behind the primary street setback line to a minimum of 4 metres from the rear boundary, unless otherwise designated on the LDP or where this boundary is to a secondary street. Where possible, nil setbacks should be positioned on the boundary that maximises solar access to the dwelling. The City of Kwinana may vary the location of the nil setback line where appropriate to achieve specific design outcomes. This provision does not apply to lots 2153 to 2160. These lots are permitted to have a nil setback for the full extent of the lot boundary, provided the dwelling complies with the R-Codes and this LDP for all other requirements.
- Garages are permitted to have a nil side setback to one boundary. The garage nil side setback is not required to be on the same nil side setback boundary as the dwelling.
- For lots with a frontage of 11 metres or less or where otherwise designated on this LDP, nil setbacks are permitted to both side boundaries simultaneously.
- Where a nil side setback is permissible but not proposed, side setbacks shall conform to the requirements of the R-Codes.
- For corner lots, where the major dwelling entry (front door) is oriented toward the secondary street, secondary street setbacks still apply. Primary street setbacks apply to the other street, as designated on this LDP.
- Setbacks may be varied at the discretion of the Manager - Planning and Development, for corner lots or where otherwise the configuration of the lots limits compliance with setback requirements.

Attachment E

- For lots with rear access, outdoor living areas may be situated within the building setback area provided they have a minimum length and width of 4 metres, and remain open and uncovered for a minimum of 2 metres from the lot boundary.

Streetscape

- Where lots have a frontage of 12 metres or less, garages may exceed 50% of the primary lot frontage to a maximum of 60% of the primary lot frontage.
- Where garages exceed 50% of the primary lot frontage, they shall comply with the following:
 - A clear indication of the dwelling entrance.
 - The dwelling entrance shall be the dominant feature of the facade, and shall include a projecting portico or veranda with a minimum depth of 1.5 metres.
 - Garages are to be set back at least 0.5 metres behind the dwelling alignment, with the exception of rear laneway lots.
- Fencing abutting public open space shall be uniform and visually permeable above 1.2 metres.
- Where porticos are provided they may be setback a minimum of 2 metres from the primary street.
- In accordance with City Policy, a minimum of one street tree per lot is required. Street trees will be provided by the developer within the road verge, and maintained for a minimum of two years until established. Street trees are to be generally located as shown on this Local Development Plan, subject to detailed landscape design. Refer approved landscape plans (available from City) for detail. Street trees are not to be relocated or removed by landowners.

Design Elements

- Where sheds and outbuildings do not match the construction materials and colours of the dwelling they are to be screened from public view.
- For lots with an area of 260m² or less, storage areas with a minimum internal area of 4m² and with a minimum dimension of 1.5 metres are to be provided at the time of construction of the dwelling. Storage areas shall be constructed under the main roof of the residence or garage, and shall be accessible from either the exterior or within the garage.
- Dwellings on Lots 2153 to 2160 are to provide the appropriate, high quality interface with the adjoining POS, through the use of flowing architectural features:
 - Articulation in the dwelling facade (i.e. varied wall setbacks);
 - A mix of building materials, colours and finishes (e.g. render, brick, cladding);
 - Major habitable room openings, incorporating large windows to POS surveillance;
 - Roof forms that incorporate either gables, eaves, verandah or a feature portico; and
 - The wall plate height on the front elevation shall be a minimum of 28 courses.

Fire Management

- Dwellings constructed on lots identified as being at risk of bushfire attack under the approved Fire Management Plan, or within 100 metres from any bushland greater than 1 hectare in area, shall be constructed to the appropriate BAL rating in accordance with Australian Standard 3959.
- This LDP shall be read in conjunction with the approved Fire Management Plan, and BAL assessment (Strategen 2016)
- A proposed reduction to the nominated BAL rating for any development will require a planning application for consideration. The submission is to include the detailed method for determining Bushfire Attack Level - Method 2 from AS 3959 supporting the lower rating demonstrating compliance with AS 3959, WAPC Guidelines for

Bushfire Protection Policy.

- For all lots, where an incursion (including minor incursions) into the building setback area is proposed, a reassessment of the Bushfire Attack Level is required.

Noise Management


- For those lots potentially affected by noise emanating from the Kwinana Freeway and Anketell Road, dwellings are to be constructed with the relevant 'Deemed to Comply Noise Insulation Package' specified on this LDP. Noise Insulation Package requirements are set out under the Implementation Guidelines for State Planning Policy 5.4 (SPP5.4) and Australian Standard AS2107-2000.
- For those lots identified on the LDP as requiring a protected courtyard, the main outdoor living area is to be located on the most protected facade of the lot/dwelling. Where the main outdoor living area is situated fronting or siding on to a noise source (exceeding 60 dB(A)Leq(16-hour)), a solid 2m high fence (eg. Hardifence pinelap or Colorbond) is required between the outdoor living area and the road for the length of the outdoor living area or as long as required to fully screen the line of view from the outdoor living area to the noise source.
- All dwellings on lots with a frontage of 7.5m or less shall be constructed with the following minimum quiet house design requirements:
 - Walls shall be double leaf cavity brickwork, such as two leaves of 90mm thick bricks with 50mm air gap. Any alternatives shall achieve a minimum Rw50 acoustic rating.
 - Windows shall be minimum 4mm laminated glazing in a high quality residential grade frame to achieve a minimum Rw+Ctr23 acoustic rating.
 - Roof / Ceiling - to be minimum 10mm thick plasterboard with R2.0 insulation between ceiling joists. Combined with roof, acoustic performance to be minimum Rw42.
 - Eaves are to be enclosed using a minimum 4mm thick compressed cement sheeting or equivalent.
 - Air conditioning units, or the like, must be selected on the basis of quiet operation and units shall be roof mounted on appropriate anti-vibration mounts, or be no more than 1.5m above ground level.
 - Any alternative construction methods shall be supported by a report undertaken by a suitably qualified acoustic consultant.

Noise Insulation Package	Dwellings to be constructed to comply with Noise Insulation Package in accordance with SPP 5.4 and AS2107-2000.
Package A	Lots 2243 - 2244, 2293 - 2294, 2295 - 2296, 2321 - 2322 and 2323 - 2325

*NOTE: Site Coverage includes the floor area of all buildings.



This Local Development Plan has been approved by Council under the provisions of the City of Kwinana, Town Planning Scheme No.2 and the Wandl South Local Structure Plan.

Principal Planner: 
Date: 27 / 10 / 2016

REVISIONS

Rev	Date	Drawn
K	2016.07.25	W. Clements
L	2016.07.26	W. Clements
M	2016.09.06	M. Sullivan
N	2016.09.09	W. Clements

w: www.rowegroup.com.au
e: info@rowegroup.com.au
p: 08 9221 1991

Date Drawn: 2014-12-01
Job Ref: 7926
Scale: 1:2000 @ A3
Client: Satterley
Designer: R. Cumming
Drawn: W. Clements
Projection: PCG 94
Plan ID: 7926-LDP-05-N
Cadastral supplied by McMullen Nolan

16 Reports – Civic Leadership

16.1 Review of Council Policy – Local Employment Solutions

DECLARATION OF INTEREST:

There were no declarations of interest declared.

SUMMARY:

A review of the Council Policy – Local Employment Solutions was undertaken and is recommended for Council endorsement.

OFFICER RECOMMENDATION:

That Council adopt the amended Local Employment Solutions Policy as detailed in Attachment A.

DISCUSSION:

A copy of the policy recommended for amendment is detailed in Attachment A with the current policy contained within Attachment B.

There have been no significant changes to the intent of this policy, however the formatting and structure has been amended to reflect Council's current formatting guide and structure.

City Officers will continue to advocate and work to deliver local employment opportunities within the City and the wider region. The policy provides City Officers with the direction in which to facilitate improved employment outcomes and opportunities within the community.

Currently, the City has no ability to give preferences to local businesses in its procurement processes. Under the *Local Government (Functions and General) Regulations 1996*, local governments outside of the metropolitan areas can give regional preference under prescribed conditions. There are no provisions that would support such a preference for a metropolitan local government. Under the current review of the *Local Government Act 1995*, procurement does not appear to be a matter under consideration. If the City wanted to pursue preference for local suppliers, it may be necessary to request WALGA to consider advocacy in this area. Given the principles of open and transparent procurement by local governments, it is unlikely that advocacy for local business preference will be successful.

City Officers are proposing to include a requirement that all future tender submissions address how they align to the Local Employment Solutions Council Policy and that this is included as an additional qualitative assessment which requires a response and that an appropriate weighting applies.

LEGAL/POLICY IMPLICATIONS:

Local Government Act 1995 section 2.7 states:

- (2) Without limiting subsection (1), the council is to –
 - (b) determine the local government's policies.

16.1 REVIEW OF COUNCIL POLICY – LOCAL EMPLOYMENT SOLUTIONS**Local Government (Functions and General) Regulations 1996**

Regulation 24B(1) states:

regional price preference, in relation to a tender submitted by a regional tenderer, involves assessing the tender as if the proposed tender price were discounted in accordance with regulation 24D;

regional tenderer means a supplier of goods or services who satisfies the criteria in subregulation (2).

Regulation 24B(2) states:

A supplier of goods or services who submits a tender is regarded as being a regional tenderer for the purposes of this Part if —

- (a) that supplier has been operating a business continuously out of premises in the appropriate region for at least 6 months before the time after which further tenders cannot be submitted; or*
- (b) some or all of the goods or services are to be supplied from regional sources.*

Regulation 24C states:

A local government located outside the metropolitan area may give a regional price preference to a regional tenderer in accordance with this Part.

FINANCIAL/BUDGET IMPLICATIONS:

There are no specific financial or budget implications related to this item.

ASSET MANAGEMENT IMPLICATIONS:

There are no specific asset management implications related to this item.

ENVIRONMENTAL IMPLICATIONS:

There are no specific environmental implications related to this item.

STRATEGIC/SOCIAL IMPLICATIONS:

This proposal will support the achievement of the following outcome and objective detailed in the Strategic Community Plan.

Plan	Outcome	Objective
Strategic Community Plan	Varied job opportunities	2.1 Residents have access to ample job opportunities locally.

16.1 REVIEW OF COUNCIL POLICY – LOCAL EMPLOYMENT SOLUTIONS**COMMUNITY ENGAGEMENT:**

There are no community engagement implications as a result of this report.

RISK IMPLICATIONS:

The risk implications in relation to this proposal are as follows:

Risk Event	City Officers do not advocate for employment opportunities in the region.
Risk Theme	Business and community disruption
Risk Effect/Impact	Reputation
Risk Assessment Context	Strategic
Consequence	Minor
Likelihood	Unlikely
Rating (before treatment)	Low
Risk Treatment in place	Reduce - mitigate risk
Response to risk treatment required/in place	Prepare and review Corporate Business Plan with specific actions for developing opportunities for local employment.
Rating (after treatment)	Low

COUNCIL DECISION

284

MOVED CR S LEE**SECONDED CR P FEASEY**

That Council adopt the amended Local Employment Solutions Policy as detailed in Attachment A.

**CARRIED
5/3**

Council Policy

Local Employment Solutions Policy



Council Policy

Local Employment Solutions Policy

D18/49901

1. **Title**
Local Employment Solutions Policy
2. **Purpose**
This Policy defines the City of Kwinana's commitment to promoting local employment opportunities.
3. **Scope**
The policy refers to the actions of City Officers and Elected Members in advocating for opportunities within the City and the wider region.
4. **Definitions**
All words have their normal dictionary meaning.
5. **Policy Statement**
 - 5.1 The City of Kwinana is to assume the role of facilitator and catalyst to improve employment outcomes and opportunities for people of all ages within the community in cooperation with other local authorities within the region.
 - 5.2 The City will work with relevant stakeholders to:
 - 5.2.1 Identify and develop local initiatives that will strengthen local labour markets and lead to the creation of local job opportunities;
 - 5.2.2 Improve, co-ordinate and integrate local service delivery to assist people to increase their level of social and economic participation; and
 - 5.2.3 Harness other resources that may be available in the community to support local employment outcomes.
6. **Financial/Budget Implications**
There are no specific financial or budget implications associated with this Policy.
7. **Asset Management Implications**
There are no specific asset management implications associated with this Policy.
8. **Environmental Implications**
There are no specific financial or budget implications associated with this Policy.
9. **Strategic/Social Implications**
Strategic Community Plan
Outcome: Varied Job Opportunities
Objective 2.1: Residents to have access to ample job opportunities locally
10. **Occupational Safety and Health Implications**
There are no specific OSH implications associated with this Policy.
11. **Risk Assessment**

The risk implications in relation to this proposal are as follows:

Risk Event	City Officers do not advocate for employment opportunities in the region.
Risk Theme	Business and community disruption
Risk Effect/Impact	Reputation
Risk Assessment Context	Strategic
Consequence	Minor
Likelihood	Unlikely
Rating (before treatment)	Low
Risk Treatment in place	Reduce - mitigate risk
Response to risk treatment required/in place	Prepare and review Corporate Business Plan with specific actions for developing opportunities for local employment.
Rating (after treatment)	Low

12. References

Name of Policy	Local Employment Solutions Policy
Date of Adoption and resolution No	12 October 2011 (Decision 406)
Review dates and resolution No #	8 April 2015 (Decision 427)
New review date	To be reviewed in 2020/21 Financial Year
Legal Authority	<i>Local Government Act 1995</i>
Directorate	City Strategy
Department	Economic Development
Related documents	Acts/Regulations Nil. Plans/Strategies Economic Development Action Plan Policies Nil. Work Instructions Nil. Other documents Nil.

Note: Changes to References may be made without the need to take the Policy to Council for review.



POLICY

LOCAL EMPLOYMENT SOLUTIONS



LOCAL EMPLOYMENT SOLUTIONS

This Policy defines the City of Kwinana's commitment to promoting local employment opportunities.

Adopted:	12/10/2011 #406
Last reviewed:	11/07/2012 #163 08/04/2015 #427
Legal Authority	Local Government Act 1995 Section 2.7 – Role of Council

Policy:

In order to assist with promoting employment opportunities within the City of Kwinana:

The City of Kwinana is to assume the role of facilitator and catalyst to improve employment outcomes and opportunities for people of all ages within the community in cooperation with other local authorities within the region.

The City will work with relevant stakeholders to:

- Identify and develop local initiatives that will strengthen local labour markets and lead to the creation of local job opportunities,
- Improve, co-ordinate and integrate local service delivery to assist people to increase their level of social and economic participation, and
- Harness other resources that may be available in the community to support local employment outcomes.

16.2 Accounts for payment for the month ended 31 August 2018

DECLARATION OF INTEREST:

Mayor Carol Adams declared an impartiality interest as two of the payments have been made to her husband's employer.

SUMMARY:

The purpose of this report is to present to Council a list of accounts paid under delegated authority for the month ended 31 August 2018, as required by the *Local Government (Financial Management) Regulations 1996*.

OFFICER RECOMMENDATION:

That Council:

1. Accepts the list of accounts, totalling \$5,212,801.30, paid under delegated authority in accordance with Regulation 13(1) of the *Local Government (Financial Management) Regulations 1996* for the period ended 31 August 2018, as contained within Attachment A.
2. Accepts the detailed transaction listing of credit card expenditure paid for the period ended 31 August 2018, as contained within Attachment B.

DISCUSSION:

Council has delegated, to the Chief Executive Officer, the exercise of its power to make payments from the City's Municipal and Trust funds. In accordance with Regulation 13 of the *Local Government (Financial Management) Regulations 1996* a list of accounts paid is to be provided to Council, where such delegation is made.

The following table summarises the payments for the period by payment type, with full details of the accounts paid contained within Attachment A.

Payment Type	Amount (\$)
Automatic Payment Deductions	\$ 93,834.61
Cheque Payments - #200913 to 200920	\$ 1,652.45
EFT Payments - #3726 to 3748	\$3,875,066.82
Payroll Payments – 12/08/18, 26/08/18	\$1,233,165.89
Sub Total Attachment A	\$5,203,719.77
Credit Card Expenditure for August 2018	\$ 9,081.53
Total Payments	\$5,212,801.30

Contained within Attachment B is a detailed transaction listing of credit card expenditure paid for the period ended 31 August 2018. This amount is included within the total payments, listed above.

16.2 ACCOUNTS FOR PAYMENT FOR THE MONTH ENDED 31 AUGUST 2018

LEGAL/POLICY IMPLICATIONS:

Regulation 13 of the *Local Government (Financial Management) Regulations 1996* states:

13. *Payments from municipal fund or trust fund by CEO, CEO's duties as to etc.*

- (1) *If the local government has delegated to the CEO the exercise of its power to make payments from the municipal fund or the trust fund, a list of accounts paid by the CEO is to be prepared each month showing for each account paid since the last such list was prepared —*
 - (a) *the payee's name; and*
 - (b) *the amount of the payment; and*
 - (c) *the date of the payment; and*
 - (d) *sufficient information to identify the transaction.*
- (2) *A list of accounts for approval to be paid is to be prepared each month showing*
 - (a) *for each account which requires council authorisation in that month —*
 - (i) *the payee's name; and*
 - (ii) *the amount of the payment; and*
 - (iii) *sufficient information to identify the transaction;*
and
 - (b) *the date of the meeting of the council to which the list is to be presented.*
- (3) *A list prepared under subregulation (1) or (2) is to be —*
 - (a) *presented to the council at the next ordinary meeting of the council after the list is prepared; and*
 - (b) *recorded in the minutes of that meeting.*

FINANCIAL/BUDGET IMPLICATIONS:

There are no financial implications that have been identified as a result of this report or recommendation.

ASSET MANAGEMENT IMPLICATIONS:

There are no asset management implications that have been identified as a result of this report or recommendation.

ENVIRONMENTAL IMPLICATIONS:

There are no environmental implications that have been identified as a result of this report or recommendation.

16.2 ACCOUNTS FOR PAYMENT FOR THE MONTH ENDED 31 AUGUST 2018

STRATEGIC/SOCIAL IMPLICATIONS:

This proposal will support the achievement of the following outcome and objective detailed in the Corporate Business Plan.

Plan	Outcome	Objective
Corporate Business Plan	Business Performance	5.4 Ensure the financial sustainability of the City of Kwinana into the future

COMMUNITY ENGAGEMENT:

There are no community engagement implications that have been identified as a result of this report or recommendation.

RISK IMPLICATIONS:

The risk implications in relation to this proposal are as follows:

Risk Event	That Council does not accept the payments.
Risk Theme	Failure to fulfil statutory regulations or compliance requirements
Risk Effect/Impact	Compliance
Risk Assessment Context	Operational
Consequence	Minor
Likelihood	Possible
Rating (before treatment)	Low
Risk Treatment in place	Reduce - mitigate risk
Response to risk treatment required/in place	Officers provide a full detailed listing of payments made in a timely manner
Rating (after treatment)	Low

COUNCIL DECISION

285

MOVED CR P FEASEY**SECONDED CR M ROWSE**

That Council:

- 1. Accepts the list of accounts, totalling \$5,212,801.30, paid under delegated authority in accordance with Regulation 13(1) of the *Local Government (Financial Management) Regulations 1996* for the period ended 31 August 2018, as contained within Attachment A.**
- 2. Accepts the detailed transaction listing of credit card expenditure paid for the period ended 31 August 2018, as contained within Attachment B.**

CARRIED
8/0

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
Automatic Deductions								
29138	01/08/2018	Go Go On-Hold Pty Ltd	264.00	INV	01/08/2018	00029138	On Hold message service August 2018	264.00
2628131	13/08/2018	iinet Technologies Pty Ltd	59.95	INV	13/08/2018	102628131	Monthly Internet Charges for Zone Monthly Internet Charges for Zone 120818 to 120918	59.95
10270911	21/08/2018	BP Australia Pty Ltd	19,595.16	INV	21/08/2018	10270911	Fleet Fuel 010718 to 310718	19,595.16
1669562	21/08/2018	Caltex Australia Petroleum Pty Ltd	7,593.24	INV	21/08/2018	0301669562	Fleet Fuel 010618 to 300618	7,593.24
33	21/08/2018	Wright Express Australia Pty Ltd	1,498.65	INV	21/08/2018	33	Fleet Fuel 270618 to 300718	1,498.65
82931608	03/08/2018	TPG Internet Pty Ltd	49.99	INV	03/08/2018	I182931608	Internet Mandogalup Station 100818 to 090918	49.99
0	29/08/2018	Toyota Financial Services	1,194.07	INV	29/08/2018	605242	Monthly Lease Fees 1EWZ823 and 1EYT548 Monthly Lease Fees	1,194.07
0	15/08/2018	Fines Enforcement Registry	317.50	INV	15/08/2018	22744599	Lodgment fee for registering Infringements 18222UIN Lodgement Fee 5 Unpaid Infringements	317.50
0	15/08/2018	iinet Technologies Pty Ltd	39.95	INV	15/08/2018	102255742	Monthly Internet Charges for Senior Citizens 140818 to 140918	39.95
0	24/08/2018	iinet Technologies Pty Ltd	39.95	INV	24/08/2018	102865489	Monthly Internet Charges Village Monthly Internet Charges Village August	39.95
0	24/08/2018	Fines Enforcement Registry	127.00	INV	24/08/2018	22813332	FER Lodgment Fee	127.00
0	29/08/2018	iinet Technologies Pty Ltd	69.95	INV	29/08/2018	103029006	Monthly Internet Charges Wellard CC	69.95
0	29/08/2018	Bright Futures Family Day Care - Pa	24,331.63	INV	29/08/2018	IHC 1308-260818	IHC Payroll 130818 to 260818	24,331.63
0	29/08/2018	Bright Futures Family Day Care - Pa	38,399.57	INV	29/08/2018	130818 to 260818	FDC Payroll 130818 to 260818	38,399.57
0	30/08/2018	Fines Enforcement Registry	254.00	INV	30/08/2018	22840099	FER Lodgement Fee	254.00
Total Automatic Deductions			93,834.61					

Cheques

200913	01/08/2018	City Of Kwinana - Pay Cash	115.00	INV	01/08/2018	Village-25/07/18	Petty cash recoup to 25/07/15 Village	115.00
200914	08/08/2018	Australian Institute of Building	550.00	INV	08/08/2018	12751	Member Renewal	550.00
200915	08/08/2018	Bankwest	60.00	INV	07/08/2018	0000107116	Audit Certificate for 2017/2018 Financial Year	60.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
200916	15/08/2018	City Of Kwinana - Pay Cash	66.90	INV	14/08/2018	08/08/2018-Lib	Petty cash recoup to 080818 Library	66.90
200917	22/08/2018	City Of Kwinana - Pay Cash	341.20	INV	22/08/2018	22/08/18-Admin	Petty cash recoup to 220818 Admin	341.20
200918	23/08/2018	Irene Vella	100.00	RFD	22/08/2018	1316256	Refund bond Hall hire 270618 Receipt #1316256	100.00
200919	29/08/2018	Australian Institute of Building	300.00	INV	28/08/2018	14143	Training Waterproofing Wet Areas	300.00
200920	29/08/2018	City Of Kwinana - Pay Cash	119.35	INV	29/08/2018	28/08/18-Library	Petty cash recoup to 280818 Library	26.70
				INV	29/08/2018	24/07/2018-Lib	Petty cash recoup to 210818 Library	92.65

Total Cheques

1,652.45

EFT

3726	01/08/2018	EFT TRANSFER: - 02/08/2018	162,384.36					
3726.565-01		Bright Futures Family Day Care - Pa	125,786.94	INV	01/08/2018	160718-290718	Family Daycare payroll 160718 to 290718	125,786.94
3726.568-01		Bright Futures In Home Care - Payro	36,597.42	INV	01/08/2018	160718-290718	In Home Care payroll 160718 to 290718	36,597.42
3727	01/08/2018	EFT TRANSFER: - 02/08/2018	203,667.79					
3727.10003-01		Susan Reeve	150.00	INV	31/07/2018	25thJuly2018	Refund payment of laptop	150.00
3727.10038-01		The Blossom Guide	780.00	INV	31/07/2018	5	School Holiday workshop 040718 and 110718	780.00
3727.10066-01		Pivotal Management	300.00	RFD	01/08/2018	1317903	Refund bond Hall hire 160718	300.00
3727.10204-01		Bunnings Group Limited	155.23	INV	30/07/2018	2685/01584781	Galvanised chain and wall mounted hose reel	155.23
3727.10355-01		John Ozimek	6,623.75	RFD	01/08/2018	848898	Refund bond Road maintenance	6,623.75
3727.10366-01		Janis Dianne Ashfold	724.64	INV	26/07/2018	3.1	Rates Refund	724.64
3727.10368-01		HS Hyde & Son	959.23	INV	30/07/2018	26thJuly2018	Refund application fee DA9216	959.23
3727.10369-01		Joanne Michelle Middlemiss	50.00	INV	30/07/2018	1068445	Refund 360L Recycle bin upgrade fee	50.00
3727.10370-01		Natalie Patricia Barber	600.00	INV	30/07/2018	3.2	Rates Refund	600.00
3727.10371-01		Natalie Elizabeth Penfold	50.00	INV	30/07/2018	1090557	Refund 360L recycle bin upgrade fee	50.00
3727.10372-01		Zakary Davis	150.00	INV	30/07/2018	1250944	Refund of sterilisation of dog	150.00
3727.10374-01		Grand Patios	61.65	INV	31/07/2018	24thJuly2018	Refund of BSL fee BP2018/462	61.65
3727.10375-01		Rizwan Ahmad Anis	90.80	INV	31/07/2018	25thJuly2018	Refund of term fee Kids Play and Learn	90.80
3727.10376-01		Fulvio Monaco	250.00	INV	31/07/2018	20180103	Senior security subsidy scheme	250.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3727.10377-01		Agostina Orazio	434.48	INV	31/07/2018	23rdJuly2018	Refund Vacation Care Term 2 2018	434.48
3727.10378-01		Katrina Lee-Anne Tihore	60.00	INV	31/07/2018	23rdJuly2018	Refund Vacation Care Term 2 2018	60.00
3727.10379-01		Michelle Gainey	26.86	INV	31/07/2018	23rdJuly2018	Refund Vacation Care Term 2 2018	26.86
3727.10380-01		Elaine Wipp	250.00	INV	31/07/2018	30thJuly2018	Lyrik Incentive Award Round 23	250.00
3727.10381-01		Leah Ethel Walter	50.00	INV	31/07/2018	1033326	Refund 360L recycle bin upgrade fee	50.00
3727.10382-01		Jessica Caslake	100.00	RFD	01/08/2018	1315721	Refund bond Patio hire	100.00
3727.10383-01		Helen Ryan	100.00	RFD	01/08/2018	1220363	Refund bond Patio hire	100.00
3727.10384-01		Samantha Teo	2,000.00	RFD	01/08/2018	1315207	Refund bond Hall hire 180618	2,000.00
3727.10385-01		Mitchell Capell	125.10	INV	01/08/2018	31stJuly2018	Refund of swimming lessons	125.10
3727.1178-01		Holcim (Australia) Pty Ltd	344.96	INV	30/07/2018	9403784270	0.8m3 concrete 2 Walgreen Crescent Calista	344.96
3727.1227-01		Rockingham Holden	209.88	INV	30/07/2018	35774	ASM tail lamp rego KWN1991	209.88
3727.1276-01		Satellite Security Services	7,380.08	INV	27/07/2018	IV003239	Security Monitoring for sites 010718 to 311218	6,517.28
				INV	27/07/2018	IV003300	Adventure Park check and repair kiosk alarm	235.00
				INV	27/07/2018	IV003310	Check and repair Wellard Pavilion kitchen keypad	507.80
				INV	27/07/2018	IV003311	Works Depot Check E-Shield Beam front new shed	120.00
3727.1277-01		Savage Garden Services	12,874.00	INV	31/07/2018	56-30/07/18	City Centre Litter Collection July 2018	3,900.00
				INV	31/07/2018	58-20/07/18	Litter pick up at Holden Close	220.00
				INV	31/07/2018	57-30/07/18	Pruning weeding and clean up Hope Valley Road	4,704.00
				INV	31/07/2018	59-30/07/18	Prepare and mulch roundabouts	4,050.00
3727.1290-01		Shane McMaster Surveys	880.00	INV	25/07/2018	292	Road Reserve Feature Survey Hume Court Parmelia	880.00
3727.1357-01		Sportsworld Of WA	950.95	INV	31/07/2018	136072	Assorted goggles for Proshop	950.95
3727.1393-01		Sunny Sign Company Pty Ltd	842.12	INV	25/07/2018	390480	Signs and posts Sulphur/Parmelia/Bertram Roads	842.12
3727.1474-01		Toll Transport Pty Ltd	36.86	INV	27/07/2018	1025173	Transport services food and water sampling	36.86
3727.1485-01		T-Quip	700.00	INV	30/07/2018	77473#12	Toro 7200 Operators seat ASM Rego 1GCT302	700.00
3727.1530-01		Wormald Australia Pty Ltd	1,664.10					

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	27/07/2018	7765434	Repair Recquatic Centre fire indicator panel	379.50
				INV	30/07/2018	7763767	Routine inspection and testing Admin	968.35
				INV	30/07/2018	7773400	Call out and inspect 230518 Fiona Harris Pavilion	316.25
3727.1572-01		Western Australian Local Government	61,006.73	INV	25/07/2018	13071665	WALGA Subscriptions 010718 to 300619	61,006.73
3727.1595-01		Wattleup Tractors	1,276.55	INV	30/07/2018	1245895	Left hand fender for Massey 5440 rego 1DYF483	1,276.55
3727.1609-01		West Australian Newspapers Limited	35.20	INV	31/07/2018	02379618	4 Week subscription 020718 to 300718	35.20
3727.1614-01		Westbooks	192.99	INV	30/07/2018	298681	Junior Kindy Books	192.99
3727.1726-01		Kyocera Document Solutions Australi	7,492.92	INV	25/07/2018	2811393168	Umango extract annual support and maintenance	4,106.52
				INV	25/07/2018	2811388606	Building Mainenance multifunction printer upgrade	717.20
				INV	31/07/2018	2852292640	ZFS-C2526MFP October 2017	50.62
				INV	31/07/2018	2852286706	FS-C2526MFP September 2017	63.97
				INV	31/07/2018	2852281277	FS-C2526MFP Zone	38.06
				INV	31/07/2018	2852328483	Taskalfa 300ci April 2018	49.50
				INV	31/07/2018	2852324068	Taskalfa 300ci March 2018	99.24
				INV	31/07/2018	2852317573	Taskalfa 300ci February 2018	91.03
				INV	31/07/2018	2852311246	Taskalfa 300ci January 2018	122.53
				INV	31/07/2018	2852305128	Taskalfa 300ci December 2017	173.43
				INV	31/07/2018	2852298834	Taskalfa 300ci November 2017	260.43
				INV	31/07/2018	2852292633	Taskalfa 300ci October 2017	301.28
				INV	31/07/2018	2852286699	Taskalfa 300ci September 2018	274.99
				INV	31/07/2018	2852269104	Taskalfa 300ci Incubator	201.72
				INV	31/07/2018	2852280942	Taskalfa 300ci Incubator	282.33
				INV	31/07/2018	2852335084	FS-C2526MFP April 2018	65.50
				INV	31/07/2018	2852324075	FS-C2526MFP March 2018	131.32
				INV	31/07/2018	2852317580	FS-C2526MFP February 2018	129.63
				INV	31/07/2018	2852305135	FS-C2526MFP December 2017	106.24
				INV	31/07/2018	2852298841	FS-C2526MFP November 2018	227.38
3727.1762-01		Officeworks BusinessDirect	800.04	INV	30/07/2018	39425970	Stationery for William Bertram Centre	277.09
				INV	30/07/2018	39425231	Stationery	464.95
				INV	30/07/2018	39479061	Stationery	29.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	30/07/2018	39507752	Stationery	29.00
3727.1856-01		Cornerstone Legal	1,442.38	INV	31/07/2018	15322	Legal fee Matter 004670	1,442.38
3727.19-01		Absolute Painting Services	759.00	INV	31/07/2018	INV-0553	Painting service Callistemon Court Unit 30	759.00
3727.2071-01		Compleat Angler & Camping World -	791.83	INV	30/07/2018	R8-11025658-2	Assorted lifejackets for Recquatic	791.83
3727.2115-01		Asbestos Masters WA	440.00	INV	30/07/2018	3015	Removal of asbestos from 382 De Haer Road Wand	440.00
3727.2125-01		Synergy	13,878.10	INV	31/07/2018	303608210Jul18	U9 Callistemon Court	30.85
				INV	01/08/2018	2152493124	53267.08U Lot 111 Gilmore Ave Admin Building	13,847.25
3727.2224-01		Prestige Catering & Event Hire	1,387.80	INV	01/08/2018	00022814	Catering OCM dinner 250718	394.40
				INV	30/07/2018	00022770	Deposit for 030818 Sports Awards Dinner catering	100.00
				INV	30/07/2018	00022779	Executive Dinner catering 230718	358.50
				INV	31/07/2018	00022813	Catering Deposit Seniors Christmas lunch 131218	100.00
				INV	31/07/2018	00022812	Catering Seniors Christmas lunch 121218	100.00
				INV	31/07/2018	00022811	Deposit Senior Christmas lunch 111218	100.00
				INV	31/07/2018	00022815	Catering 260718	234.90
3727.2339-01		ZircoData Pty Ltd	798.76	INV	01/08/2018	ZDW0028932	Offsite storage and retrieval 260618 to 250718	798.76
3727.2410-01		ABCO Products	129.05	INV	30/07/2018	351719	2L Suma Max D9.2	129.05
3727.248-01		Bunnings Building Supplies	641.09	INV	30/07/2018	2163/01679029	Administration halogen globes	14.92
				INV	30/07/2018	2163/01679031	John Wellard Community Centre castors and hardware	40.41
				INV	30/07/2018	2163/01273155	Batteries ratchet straps wrenches and fuel cans	293.87
				INV	31/07/2018	2163/01150216	Assorted painting items	291.89
3727.2495-01		Elite Pool & Spa Covers	242.00	INV	31/07/2018	00081159	Blanket buddy repairs	242.00
3727.2513-01		Melanie Margaret Sharp	1,000.00	INV	26/07/2018	2.9	Rates Refund	1,000.00
3727.2646-01		Neverfail Springwater	90.84	INV	31/07/2018	317826	Bottled water Admin	30.28
				INV	31/07/2018	318661	Bottled water Admin	60.56
3727.2749-01		Rebel Sport Ltd	200.00	INV	30/07/2018	066102041837	Pool cues and accessories for Drop In Zone	200.00
3727.311-01		ChemCentre	643.50	INV	30/07/2018	1118317S4225	Testing one sample of solid and one of water	643.50

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3727.3334-01		Bertram Primary School	200.00	RFD	01/08/2018	1307088	Refund bond Hall hire 180618 and 230718	200.00
3727.339-01		Civica Pty Ltd	16,603.60	INV	01/08/2018	M/LG008737	Authority and eServices June 2018	8,301.80
				INV	01/08/2018	M/LG009117	Authority and eServices July 2018	8,301.80
3727.3608-01		Foreshore Rehabilitation & Landscap	2,629.83	INV	27/07/2018	INV-4222	Repairs to fence at Sloans Reserve	440.00
				INV	27/07/2018	INV-4218	Adventure Playground supply and install new gate	2,052.33
				INV	27/07/2018	INV-4216	Calista Tennis Club repair fence repairs	137.50
3727.3686-01		KAJ Installations & Services	284.00	INV	31/07/2018	00004703	Program new remote transmiiter	108.00
				INV	31/07/2018	00004704	Program new remote transmitter	176.00
3727.3805-01		Officeworks Superstores Pty Ltd	253.08	INV	01/08/2018	39832425	Stationery items for Mandogalup Brigade	19.95
				INV	30/07/2018	620225417	Mailing labels	33.73
				INV	30/07/2018	39772775	Audio adapters	199.40
3727.3877-01		Schweppes Australia Pty Ltd	431.92	INV	31/07/2018	0807979892	Assorted drinks Recquatic	431.92
3727.3916-01		Kwinana Industries Council	224.18	INV	27/07/2018	00011817	Trainee Community Centres fortnight ending 200718	129.07
				INV	27/07/2018	00011816	Trainee Community Centres fortnight ending 200718	95.11
3727.4003-01		Infiniti Group	279.95	INV	31/07/2018	435974	Paper towel rolls Recquatic	212.30
				INV	31/07/2018	435752	Towel rolls Recquaitc	67.65
3727.4057-01		Kelyn Training Services	1,795.00	INV	30/07/2018	00027114	Advanced worksite traffic management training	1,795.00
3727.407-01		Winc Australia Pty Ltd	1,326.98	INV	01/08/2018	9024797877	General stationery Darius Wells	430.17
				INV	01/08/2018	9024831858	Stationery order Administration for July 2018	4.84
				INV	01/08/2018	9024822645	Custom stamp scanned and dated	141.93
				INV	01/08/2018	9024819408	Stationery products Family Daycare	750.04
3727.4077-01		PK Technology Pty Ltd	1,693.05	INV	25/07/2018	00012646	Installation of new base Radio at Admin Building	1,693.05
3727.4112-01		Cleverpatch Pty Ltd	99.42	INV	27/07/2018	297826	Library Term 3 story time craft supplies	99.42
3727.412-01		Courier Australia	83.46	INV	01/08/2018	0342	Courier charges 160718 to 180718	83.46
3727.413-01		Covs Parts Pty Ltd	342.14	INV	30/07/2018	1650076726	Navara telescopic stand to suit floodlight	50.88
				INV	30/07/2018	1650076690	Navara floodlight high power LED workshop 71350	233.53
				INV	30/07/2018	1650076908	Cigarette lighter plug and corrugated split tubing	43.85

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	30/07/2018	1650076966	Push pull switch	13.88
3727.4246-01		Atom Supply	483.45	INV	27/07/2018	P479606	Uniform for Technical Officer Fleet Operations	483.45
3727.426-01		CSBP	300.00	RFD	01/08/2018	1127574	Refund bond Hall hire 230517	300.00
3727.434-01		Curtin University	200.00	RFD	01/08/2018	1307221	Refund bond Hall hire	200.00
3727.4350-01		T J Depiazzi & Sons	3,185.60	INV	30/07/2018	94829	Supply and deliver 50m3 Pinebark Mulch to Depot	3,185.60
3727.483-01		Landgate	84.00	INV	27/07/2018	63699603	Identify Land Parcels by Technical Description	84.00
3727.4861-01		Big W	52.00	INV	01/08/2018	057503	Arts items	29.00
				INV	01/08/2018	057508	Items for Recquatic	23.00
3727.4926-01		Aussie Clotheslines	430.00	INV	31/07/2018	11763-1	Banksia Park Unit 29 relocate clothesline	430.00
3727.5071-01		JB HiFi Commercial Division	118.61	INV	01/08/2018	DE1-6549690-1001	Microsoft Surface Pro Book 65w power supply	118.61
3727.5259-01		Buswest	682.00	INV	31/07/2018	91662	Bus hire for excursions 030718 and 100718	682.00
3727.5520-01		Master Lock Service	640.00	INV	30/07/2018	00005257	Key to glass door William Bertram Centre	240.00
				INV	31/07/2018	00005253	Banksia Park Unit 10 supply new keys	310.00
				INV	31/07/2018	00005251	Repair window lock Banksia Park Unit 14	40.00
				INV	31/07/2018	00005254	Repair window frame Banksia Park Unit 20	50.00
3727.5581-01		Totally Workwear Rockingham	166.93	INV	31/07/2018	RK4342.D1	Uniforms with logo	166.93
3727.5750-01		Kev's Wheelie Kleen	275.00	INV	25/07/2018	1870	William Bertram bin cleaning 060618	77.00
				INV	25/07/2018	1869	William Bertram bin cleaning 040718	99.00
				INV	25/07/2018	1724	William Bertram bin cleaning 200618	99.00
3727.5823-01		Accord Security Pty Ltd	3,228.92	INV	27/07/2018	00022678	1 security guard at Darius Wells 250618 to 080718	3,228.92
3727.5841-01		Mandurah Volkswagen	200.00	INV	30/07/2018	3379M	Black rim and tyre rego 1EZH639	200.00
3727.5996-01		CMS Engineering Pty Ltd	3,118.50	INV	27/07/2018	29268	Darius Wells Library inspect and repair FCU	1,492.70
				INV	27/07/2018	29267	Business Incubator Air conditioning not working	507.10
				INV	27/07/2018	29266	Check and adjust all Admin VAV units set points	1,118.70
3727.6000-01		Scott Printers Pty Ltd	82.50	INV	31/07/2018	123671	Flyers Darius Bridge Club	82.50

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3727.6018-01		ALSCO Pty Ltd	55.36	INV	31/07/2018	CPER1853059	Linen Hire	55.36
3727.6189-01		Alexi Peacock	98.00	INV	01/08/2018	23thJuly2018	Reimbursement of items for Community Awards	98.00
3727.6267-01		Woolworths Group Limited	756.69	INV	31/07/2018	28899222	Items for Admin	191.12
				INV	31/07/2018	3152434	Milk Darius Wells Centre	13.00
				INV	31/07/2018	28780419	Items for Recquatic	83.86
				INV	31/07/2018	3152420	Items for Recquatic	45.10
				INV	30/07/2018	3038251	Items for John Wellard Centre	83.09
				INV	30/07/2018	3152430	Morning tea supplies	31.00
				INV	31/07/2018	3152432	Cafe items	98.79
				INV	27/07/2018	3152415	Groceries for Plastic Not so Fantastic workshop	48.55
				INV	27/07/2018	3152425	Term 3 Master Chef program food	34.11
				INV	27/07/2018	3152421	Food and supplies for Mooditj Kulungars playgroup	94.71
				INV	30/07/2018	3152433	Food for drop-in programs	33.36
3727.6639-01		Multispares Ltd	60.39	INV	30/07/2018	3157403	Male elbow parts for Hino truck KWN005	60.39
3727.6707-01		Labourforce Impex Personnel Pty Ltd	2,199.20	INV	27/07/2018	141281	Depot temporary staff week ending 220718	2,199.20
3727.6898-01		Bricks 4 Kids Baldivis	675.00	INV	31/07/2018	INV-0080	Incursion on 270918	675.00
3727.69-01		Alinta Gas	906.75	INV	01/08/2018	474997486Jul18	7615U Darius Wells Library	906.75
3727.7042-01		Quantum Building Services	4,194.85	INV	27/07/2018	00002021	Kwinana Recquatic ceiling repairs and stair nosing	4,194.85
3727.7388-01		Morris Jacobs	155.00	INV	31/07/2018	18191-31/07/18	Art Facilitation 310718	155.00
3727.7436-01		Action Glass Pty Ltd	1,086.25	INV	31/07/2018	B17084	Resealed shower screen Banksia Park Unit 47	169.95
				INV	30/07/2018	B16624	Repair broken window at Darius Wells Library	916.30
3727.762-01		Blackwood & Sons Ltd	114.40	INV	30/07/2018	KW3426QH	Steel Blue Safety boots	114.40
3727.7625-01		Flex Industries Pty Ltd	148.50	INV	30/07/2018	59513	Mitsubishi Rosa Bus service Rego KWN2035	148.50
3727.7812-01		Starbucks Flooring	1,280.00	INV	31/07/2018	INV-000427	Callistemon Court Unit 30 Replace flooring	1,280.00
3727.8119-01		The Smart Security Company P/L	358.00	INV	31/07/2018	64548	Banksia Park Villas 14 and 5 supply new pendant	358.00
3727.8302-01		Chris Kershaw Photography	440.00	INV	30/07/2018	L2276	Photography for Citizenship Ceremony 170718	440.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3727.8400-01		Katherine Ann Schilling	99.90	INV	31/07/2018	30thJuly2018	Reimbursement catering for Networking Forum	99.90
3727.8421-01		Back Beach Co	17.80	INV	31/07/2018	16291	Difference of invoice for returns	17.80
3727.8654-01		Aviation Heritage Museum	250.00	INV	31/07/2018	INV066134	School Holiday excursion 021018	250.00
3727.8996-01		Fridgair Industries Pty Ltd	916.04	INV	30/07/2018	30440	The Zone fridge leaking evaporator coil replaced	916.04
3727.9019-01		Kearns Garden Supplies	160.55	INV	30/07/2018	21	Hardware items	136.15
				INV	31/07/2018	23-26/07/18	Double sided tapes	24.40
3727.903-01		Lo-Go Appointments	1,614.69	INV	30/07/2018	00418026	Technical Officer Civil Infrastructure week ending 210718	1,614.69
3727.9043-01		Ruckus Scooters Pty Ltd	500.00	INV	30/07/2018	INV-0012	Edge Skatepark Scooter Clinic 060718	500.00
3727.905-01		Local Government Professionals	555.00	INV	30/07/2018	8447	Affiliate Membership Manager Engineering Services	185.00
				INV	31/07/2018	8543	2018 to 2019 Affiliate Membership	185.00
				INV	01/08/2018	8448	Affiliate membership Development Engineer	185.00
3727.9185-01		Annette Elizabeth Corkill	250.00	INV	31/07/2018	26thJuly2018	Lyrik Awards Round 23 Incentive Award	250.00
3727.9383-01		Auto One Kwinana	199.95	INV	31/07/2018	4490	Thermometer Infrared SP62020	199.95
3727.9572-01		Aaron Thomas	650.00	INV	31/07/2018	006	Open Mic evening event	650.00
3727.9732-01		Builders Training of WA	1,360.38	INV	27/07/2018	00006087	Advanced Diploma of Building Surveying Unit Cost	1,360.38
3727.9764-01		Datacom Systems (AU) Pty Ltd - WA	1,903.00	INV	01/08/2018	INV0013647	Monthly Saas fee sphere website July 18	1,903.00
3727.9814-01		Befriend	7,150.00	INV	31/07/2018	INV-0300.	Project payment 28 June 2018	7,150.00
3727.9895-01		Murdoch University	2,594.50	INV	31/07/2018	FeeSem2-1980810	Study fee Student Number 19808103	2,594.50
3727.9898-01		Jasmine Atkins Music	200.00	INV	25/07/2018	11072018	William Bertram Songwriting Workshop 100718	200.00
3728	01/08/2018	EFT TRANSFER: - 02/08/2018	21,951.45					
3728.151-01		Australian Services Union	836.69	INV	01/07/2018	PY01-01-Aust Ser	Payroll Deduction	247.14
				INV	01/07/2018	PY01-01-Aust Ser	Payroll Deduction	48.50
				INV	15/07/2018	PY01-02-Aust Ser	Payroll Deduction	233.10
				INV	15/07/2018	PY01-02-Aust Ser	Payroll Deduction	48.50
				INV	29/07/2018	PY01-03-Aust Ser	Payroll Deduction	233.10
				INV	29/07/2018	PY01-03-Aust Ser	Payroll Deduction	26.35

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3728.2853-01		Maxxia Pty Ltd	5,124.84	INV	29/07/2018	PY01-03-Maxxia P	Payroll Deduction	2,383.92
				INV	29/07/2018	PY01-03-Maxxia P	Payroll Deduction	2,740.92
3728.3376-01		Health Insurance Fund of WA (HIF)	1,168.40	INV	29/07/2018	PY01-03-Health I	Payroll Deduction	1,168.40
3728.3719-01		City of Kwinana - Xmas fund	7,800.00	INV	29/07/2018	PY01-03-TOK Chri	Payroll Deduction	7,800.00
3728.487-01		Child Support Agency	3,680.61	INV	29/07/2018	PY01-03-Child Su	Payroll Deduction	1,226.87
				INV	15/07/2018	PY01-02-Child Su	Payroll Deduction	1,226.87
				INV	01/07/2018	PY01-01-Child Su	Payroll Deduction	1,226.87
3728.530-01		Easifleet	2,021.73	INV	02/08/2018	113470	Novated lease for July 2018	2,021.73
3728.892-01		LGRCEU	1,319.18	INV	29/07/2018	PY01-03-LGREC U	Payroll Deduction	417.18
				INV	01/07/2018	PY01-01-LGREC U	Payroll Deduction	451.00
				INV	15/07/2018	PY01-02-LGREC U	Payroll Deduction	451.00
3729	03/08/2018	EFT TRANSFER: - 06/08/2018	1,945.00					
3729.568-01		Bright Futures In Home Care - Payro	1,945.00	INV	03/08/2018	150718-290718-2	In Home Care payroll 150718 to 290718	1,945.00
3730	03/08/2018	EFT TRANSFER: - 06/08/2018	49.99					
3730.4805-01		TPG Internet Pty Ltd	49.99	INV	03/08/2018	I182929980	Internet Kwinana South Station 100818 to 090918	49.99
3731	06/08/2018	EFT TRANSFER: - 07/08/2018	200,775.00					
3731.153-01		Australian Taxation Office	200,775.00	INV	29/07/2018	PY01-03-Australi	Payroll Deduction	200,775.00
3732	07/08/2018	EFT TRANSFER: - 08/08/2018	376,978.71					
3732.10152-01		SuperChoice	376,978.71	INV	31/07/2018	July2018*-03	Superannuation-July2018*-03	6,397.42
				INV	31/07/2018	July2018*-06	Superannuation-July2018*-06	3,985.40
				INV	31/07/2018	July2018*-07	Superannuation-July2018*-07	5,139.18
				INV	31/07/2018	July2018*-13	Superannuation-July2018*-13	2,497.86
				INV	31/07/2018	July2018*-14	Superannuation-July2018*-14	7,411.91
				INV	31/07/2018	July2018*-16	Superannuation-July2018*-16	2,687.45
				INV	31/07/2018	July2018*-17	Superannuation-July2018*-17	17,623.34
				INV	31/07/2018	July2018*-18	Superannuation-July2018*-18	2,934.83
				INV	31/07/2018	July2018*-20	Superannuation-July2018*-20	529.45
				INV	31/07/2018	July2018*-21	Superannuation-July2018*-21	1,448.80
				INV	31/07/2018	July2018*-22	Superannuation-July2018*-22	530.68
				INV	31/07/2018	July2018*-24	Superannuation-July2018*-24	4,753.71
				INV	31/07/2018	July2018*-28	Superannuation-July2018*-28	105.64
				INV	31/07/2018	July2018*-29	Superannuation-July2018*-29	997.88

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	31/07/2018	July2018*-30	Superannuation-July2018*-30	1,587.59
				INV	31/07/2018	July2018*-37	Superannuation-July2018*-37	1,759.89
				INV	31/07/2018	July2018*-43	Superannuation-July2018*-43	207.94
				INV	31/07/2018	July2018*-46	Superannuation-July2018*-46	3,442.61
				INV	31/07/2018	July2018*-48	Superannuation-July2018*-48	1,669.98
				INV	31/07/2018	July2018*-50	Superannuation-July2018*-50	615.57
				INV	31/07/2018	July2018*-53	Superannuation-July2018*-53	1,771.12
				INV	31/07/2018	July2018*-54	Superannuation-July2018*-54	1,760.25
				INV	31/07/2018	July2018*-55	Superannuation-July2018*-55	2,678.77
				INV	31/07/2018	July2018*-56	Superannuation-July2018*-56	1,577.95
				INV	31/07/2018	July2018*-58	Superannuation-July2018*-58	687.83
				INV	31/07/2018	July2018*-59	Superannuation-July2018*-59	2,255.58
				INV	31/07/2018	July2018*-60	Superannuation-July2018*-60	1,699.17
				INV	31/07/2018	July2018*-61	Superannuation-July2018*-61	737.04
				INV	31/07/2018	July2018*-63	Superannuation-July2018*-63	432.60
				INV	31/07/2018	July2018*-65	Superannuation-July2018*-65	920.46
				INV	31/07/2018	July2018*-66	Superannuation-July2018*-66	671.63
				INV	31/07/2018	July2018*-67	Superannuation-July2018*-67	2,083.14
				INV	31/07/2018	July2018*-70	Superannuation-July2018*-70	951.16
				INV	31/07/2018	July2018*-72	Superannuation-July2018*-72	1,419.23
				INV	31/07/2018	July2018*-73	Superannuation-July2018*-73	1,943.13
				INV	31/07/2018	July2018*-74	Superannuation-July2018*-74	59.52
				INV	31/07/2018	July2018*-75	Superannuation-July2018*-75	233.67
				INV	31/07/2018	July2018*-76	Superannuation-July2018*-76	405.45
				INV	31/07/2018	July2018*-77	Superannuation-July2018*-77	2,152.64
				INV	31/07/2018	July2018*-78	Superannuation-July2018*-78	810.21
				INV	31/07/2018	July2018*-79	Superannuation-July2018*-79	1,626.25
				INV	31/07/2018	July2018*-80	Superannuation-July2018*-80	2,747.41
				INV	31/07/2018	July2018*-81	Superannuation-July2018*-81	399.90
				INV	31/07/2018	July2018*-01	Superannuation-July2018*-01	280,627.47
<hr/>								
3733	08/08/2018	EFT TRANSFER: - 08/08/2018	431,164.17					
3733.10040-01		Foundations For A Better Tomorrow	500.00	INV	03/08/2018	180731ZYS	Term 3 Rezonate Music sound therapy program deposit	500.00
<hr/>								
3733.10227-01		Draeger Australia Pty Ltd	522.50	INV	02/08/2018	3904033011	Draeger mask and freight	522.50
<hr/>								
3733.10260-01		Engineering Technology Consultants	14,410.00	INV	07/08/2018	00022753	Site investigation and reporting	14,410.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3733.10297-01		Teak Industrial Supplies	509.30	INV	06/08/2018	00077355	20 Padlock Buidec 45mm KA	509.30
3733.10301-01		Burgess Rawson (WA) Pty Ltd	544.93	INV	07/08/2018	3.3	Rates Refund	544.93
3733.10311-01		Go Doors Pty Ltd	1,372.80	INV	02/08/2018	INV-0150	Repairs to Recquatic Bifold doors	1,372.80
3733.1033-01		Nilfisk Pty Ltd	1,333.20	INV	06/08/2018	PRI0000726	Service rental charges July 2018	1,333.20
3733.10351-01		Playmaster Pty Ltd	68,475.00	INV	06/08/2018	93593344	Supply and install playground equipment Gawler Way	31,350.00
				INV	06/08/2018	INV-0310	Supply and install playground equipment Wells Park	36,575.00
				INV	06/08/2018	INV-0313	Additional limestone retaining at Gawler Park	550.00
3733.10367-01		Bean Bags R Us	575.00	INV	02/08/2018	INV-0919	10 x Bermuda triangle bean bags	575.00
3733.10373-01		Geen Willows Industrial Cleaning an	400.00	INV	08/08/2018	05	Cleaning of Banksia Park and Callistemon Court	400.00
3733.10389-01		Misty Brouwer	222.60	INV	03/08/2018	310718	Refund cancelled swimming lessons less admin fee	222.60
3733.10390-01		Ryan Mahoney	180.98	INV	03/08/2018	310718	Refund of July Vacation Care credit balance	180.98
3733.10391-01		Nadine Morcom	83.40	INV	03/08/2018	310718	Refund for withdrawal from swimming lessons	83.40
3733.10392-01		Rik Longley	51.66	INV	06/08/2018	2ndAugust2018	Sterilisation of dog	51.66
3733.10393-01		Braves Baseball Club of Melville Ci	150.00	INV	06/08/2018	KS024431	Kidsport voucher	150.00
3733.10394-01		Sarah Hera Wipaki	175.00	INV	06/08/2018	30thJuly2018	Financial Assistance Volleyball Championship	175.00
3733.10395-01		Tania Ettridge	175.00	INV	06/08/2018	30thJuly2018	Financial Assistance Equestrian Championship	175.00
3733.10396-01		Gregory Scott Edson	484.25	RFD	07/08/2018	1294345	Refund bond Hall hire 090518	484.25
3733.10397-01		Katherine Field	100.00	RFD	07/08/2018	1317903	Refund bond Patio hire 160718	100.00
3733.10398-01		Sherry Paddon	100.00	RFD	07/08/2018	1317610	Refund bond Patio hire	100.00
3733.10399-01		Dionne Belton	100.00	RFD	07/08/2018	1317283	Refund bond Patio hire 100718	100.00
3733.10400-01		Ashley Yeong	100.00	RFD	07/08/2018	1316623	Refund bond Hall hire 290618	100.00
3733.10401-01		Cook Island Community WA Incorporat	800.00	RFD	07/08/2018	1318880	Refund bond Hall hire 250718	800.00
3733.10402-01		The Department of Education: School	200.00	RFD	07/08/2018	1250806	Refund bond Hall hire 090218	200.00
3733.1112-01		Phonographic Performance Company of	1,138.71	INV	07/08/2018	3116585	Annual music licence for community centres	1,138.71

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3733.1142-01		Sonic Health Plus	114.95	INV	02/08/2018	1567325	Sereology test and Doctor review	114.95
3733.1157-01		Quality Traffic Management Pty Ltd	1,156.10	INV	07/08/2018	25444	Design traffic management plan and RTM endorsement	1,156.10
3733.1187-01		Red Sand Supplies Pty Ltd	158.40	INV	07/08/2018	00011650	Tipping fees for Burlington Street drainage	158.40
3733.1249-01		Royal Life Saving Society	792.00	INV	02/08/2018	92239	In House first aid training x 7pax 110718	792.00
3733.1272-01		Sanity Music Stores Pty Limited	107.97	INV	02/08/2018	20006	Junior DVDs for requests	107.97
3733.1276-01		Satellite Security Services	240.00	INV	07/08/2018	IV003430	Service LCD key pad Fiona Harris Pavilion	240.00
3733.1297-01		Shenton Enterprises Pty Ltd	208.18	INV	07/08/2018	161288	Repairs to dolphin cable.	208.18
3733.1343-01		Southern Metropolitan Regional Coun	11,223.96	INV	07/08/2018	13312	Overcompaction for June 2018	532.84
				INV	07/08/2018	13307	Gate fees June 2018 and Education Program 2017 to 2018	10,691.12
3733.1393-01		Sunny Sign Company Pty Ltd	519.75	INV	03/08/2018	391108	Double sided street signs	519.75
3733.1423-01		Telstra	123.70	INV	03/08/2018	3764775000Jul18	Depot burglar alarm to 210718	104.45
				INV	03/08/2018	3752384000Jul18	Family Day Care to 210718	19.25
3733.1444-01		The Good Guys	249.00	INV	07/08/2018	D0921335096	New vacuum for office Callistemon Court	249.00
3733.1516-01		Trisley's Hydraulic Services Pty Lt	1,248.34	INV	07/08/2018	80203061	Supply new prominet solenoid	1,248.34
3733.1569-01		WA Hino Sales & Service	372.85	INV	06/08/2018	HTCS116478	Service 1GMX033	372.85
3733.1572-01		Western Australian Local Government	298.00	INV	02/08/2018	I3072119	Community Safety Network Forum 020818	149.00
				INV	02/08/2018	I3072120	Community Safety Network Forum 020818	149.00
3733.1592-01		Water Corporation of Western Austra	5,390.77	INV	03/08/2018	9014051352Jul18	22U Bertram Community Centre	596.22
				INV	03/08/2018	9000319469Jul18	8U Chisham Oval Toilets	18.54
				INV	03/08/2018	9000313235Jul18	3U Peace Park	6.95
				INV	03/08/2018	9000323724Jul18	87U Frank Konecny Centre	474.48
				INV	03/08/2018	9013918698Jul18	1U Water Fountain Moombaki Reserve	2.32
				INV	03/08/2018	9014249617Jul18	5U Bertram Oval Club Facility	11.59
				INV	03/08/2018	9018600726Jul18	21U Wellard Community Centre	1,554.63
				INV	07/08/2018	9022839262	Johnson Road realignment for lower of sewer pit	1,906.67
				INV	07/08/2018	9014096921Aug18	10U Wellard Pavilion	477.85
				INV	07/08/2018	9018171503Jul18	3U Rushbrooke Park drinking fountain	6.95
				INV	07/08/2018	9017376507Jul18	Annual trade waste permit Fiona Harris Pavilion	334.57

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3733.1762-01	Officeworks BusinessDirect		650.59	INV	07/08/2018	620225417	A4 mailing labels	33.73
				INV	07/08/2018	39796284	Wireless keyboard for vehicle 991	73.95
				INV	07/08/2018	39757319	1.5m HDMI ethernet cables x 20	79.60
				INV	08/08/2018	39832425	Stationery items for Mandogalup Brigade	19.95
				INV	08/08/2018	39823194	Stationery items for Mandogalup Brigade	391.60
				INV	08/08/2018	620433388	SD cards	51.76
3733.1767-01	Construction Training Fund		17,149.10	INV	06/08/2018	July2018	CTF Levy Remittance July 2018	17,149.10
3733.1832-01	Southern Districts BMX Raceway		300.00	INV	06/08/2018	KS024562	Kidsport voucher x 2	300.00
3733.194-01	Benara Nurseries		351.56	INV	07/08/2018	465800	40 Plants Michelia and Stylidium	351.56
3733.2125-01	Synergy		113,133.20	INV	07/08/2018	693987550Jul18	505U Challenger Beach	216.50
				INV	07/08/2018	856518550Aug18	Decorative Lighting	2,535.65
				INV	07/08/2018	792417950Aug18	Street Lighting	110,381.05
3733.218-01	Bob Jane T-Mart		2,205.00	INV	06/08/2018	135030	2 x Ecopia Tyres 1GDA257	270.00
				INV	06/08/2018	135019	Tyre and tube for 1CRB723 and trailer tyre	429.00
				INV	02/08/2018	134889	4 x Ecopia Tyres and wheel alignment 1EYT548	585.00
				INV	02/08/2018	134975	4 x Tyres and Alignment KWN1991	921.00
3733.2429-01	Forestvale Trees		88.00	INV	06/08/2018	00013458	Eucalyptus gomphocephala 35L	88.00
3733.2463-01	Battery World		57.80	INV	07/08/2018	IN6080149063	John Wellard Centre 1.5v batteries for lockers	57.80
3733.248-01	Bunnings Building Supplies		2,241.03	INV	06/08/2018	2163/01503374	Supply kitchenette for the Kwinana Adventure Park	112.10
				INV	06/08/2018	2163/01680349	Replacement for stolen fence panels Adventure Park	583.08
				INV	07/08/2018	2163/00169183	Miscellaneous items	574.14
				INV	07/08/2018	2163/01034482	APU cleaning supplies	273.92
				INV	07/08/2018	2163/01681502	Fiona Harris Pavilion white paint 4 litre tin	44.18
				INV	07/08/2018	2163/01682648	Adventure Park tiling equipment	69.45
				INV	08/08/2018	2163/01681663	Duct tape and sealant	45.93
				INV	02/08/2018	2163/01506508	Cleaning products and cleaning tools	197.73
				INV	02/08/2018	2163/01674222	Cleaning products and cleaning tools	340.50
3733.2507-01	Ixom Operations Pty Ltd		1,113.00	INV	07/08/2018	5996454	Chlorine gas for Recquaitc	124.12
				INV	07/08/2018	5994656	Chlorine gas for Recquatic	988.88
3733.2565-01	Ausco Modular Pty Ltd		2,871.00	INV	03/08/2018	7132519	Demountable hire 010818 to 310818	1,435.50

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	03/08/2018	7127761	Demountable hire 010718 to 310718	1,435.50
3733.2652-01		Modern Teaching Aids Pty Ltd	30.67	INV	07/08/2018	43406221	Items for John Wellard Centre	30.67
3733.2698-01		Wilson Security Pty Ltd	1,270.28	INV	02/08/2018	W00222032	Banksia Park monthly mobile security July 2018	463.44
				INV	02/08/2018	W00222079	Callistemon monthly mobile security July 2018	806.84
3733.2817-01		Medina Aboriginal Cultural Centre	1,000.00	RFD	07/08/2018	1316256	Refund bond Hall hire 270618	1,000.00
3733.2852-01		Downer EDI Works Pty Ltd	67.13	INV	03/08/2018	6004834	0.50 tonne asphalt 7mm gran	67.13
3733.3105-01		Poly Pipe Traders	17.70	INV	02/08/2018	00092410	Tefen joiner tube and Tefen elbow	17.70
3733.335-01		City of Rockingham	2,235.38	INV	06/08/2018	99708	Tip fees green and general waste 050718 to 120718	2,235.38
3733.3358-01		Homebuyers Centre Pty Ltd	132.00	INV	03/08/2018	310718	Refund cancelled verge permit VP2017/368	132.00
3733.339-01		Civica Pty Ltd	8,301.80	INV	06/08/2018	M/LG009484	License support and maintenance September 2018	8,301.79
				INV	08/08/2018	M/LG009484	Additional amount to invoice M/LG009484	0.01
3733.357-01		BullAnt Security Pty	3,404.47	INV	06/08/2018	10,174,777	Keys cut for Medina Hall and Thomas Kelly Pavilion	341.55
				INV	06/08/2018	10,174,522	Wellard Pavilion cut restricted system key	31.05
				INV	06/08/2018	10,174,772	Darius Wells rekey door lock and cut new keys	301.15
				INV	06/08/2018	10,173,168	Bertram Oval new PD cylinders padlocks and keys	2,730.72
3733.358-01		Coastline Mowers	39.50	INV	02/08/2018	17687#5	Rope rotor and spring BG series	39.50
3733.3686-01		KAJ Installations & Services	50.00	INV	07/08/2018	00004719	Program remote transmitter	50.00
3733.4057-01		Kelyn Training Services	140.00	INV	06/08/2018	00027144	Operate and maintain chainsaws training 300818	140.00
3733.4073-01		Benestar Group Pty Ltd	2,781.64	INV	06/08/2018	P102639	Termination fee covering essentials EAP	2,781.64
3733.4077-01		PK Technology Pty Ltd	388.65	INV	02/08/2018	00012645	Checked motorola radio repaired antenna 1GJN991	388.65
3733.4125-01		LD Total	4,519.97	INV	02/08/2018	92428	Lake Pac install Wellard Village pond July 2018	179.96
				INV	02/08/2018	92429	10m3 pine bark mulch Wellard Village July 2018	1,650.00
				INV	02/08/2018	93038	Repair reticulation and reinstate paving 8 Morwell	231.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	02/08/2018	93024	Additional irrigation repair works July 2018	184.43
				INV	02/08/2018	93025	Additional irrigation repair works July 2018	321.76
				INV	02/08/2018	92427	Additional irrigation repair works July 2018	1,952.82
3733.413-01		Covs Parts Pty Ltd	4,628.50	INV	02/08/2018	1650078145	Narva LED strobe amber flange mount	459.80
				INV	02/08/2018	1650078345	Narva LED strobe amber flange mount	459.80
				INV	02/08/2018	1650078251	Narva LED strobe amber flange mount	459.80
				INV	02/08/2018	1650078377	Round brackets suit beacons x 6	131.87
				INV	02/08/2018	1650077939	Various filters oil air fuel and cabin	836.90
				INV	02/08/2018	1650077875	Disc brake pad set	71.17
				INV	06/08/2018	1650078630	Weldskill auto dark helmets	328.50
				INV	06/08/2018	1650078700	Auto parts various	836.51
				INV	06/08/2018	1650078714	Cabin air filter and filter service kit	197.63
				INV	06/08/2018	1650078674	Satin craft 5mm 5kg	199.32
				INV	08/08/2018	1650078710	Assorted filters	647.20
3733.4190-01		AC Cooling Services	2,484.90	INV	07/08/2018	1853	Repair air conditioner Callistemon Court U57	121.00
				INV	07/08/2018	1865	Replace reverse cycle air conditioner	1,813.90
				INV	07/08/2018	1795	Repair air conditioner Banksia Park U52	550.00
3733.4246-01		Atom Supply	494.45	INV	07/08/2018	P481955	Shirts and jacket with logo and pants boots socks	494.45
3733.4258-01		Industrial Roadpavers (WA) Pty Ltd	9,671.75	INV	07/08/2018	RET-3134	Retention refund Medina Netball Courts Resurfacing	9,671.75
3733.4497-01		Faunatech Ausbat Pty Ltd	194.70	INV	07/08/2018	9211	Repair camera damaged at Sloans Reserve	194.70
3733.4692-01		Elliotts Irrigation Pty Ltd	1,050.50	INV	02/08/2018	B10495	Repairs to damaged Wellard #3 iron filter manifold	1,050.50
3733.4719-01		Complete Office Supplies Pty Ltd	845.87	INV	02/08/2018	07610271	General stationary items	262.65
				INV	02/08/2018	07606786	Steel Frame Table	286.00
				INV	06/08/2018	07626156	Document wallet	4.79
				INV	06/08/2018	07628398	Stationery items	3.98
				INV	02/08/2018	07611835	Permanent markers and ballpoint pens	273.43
				INV	02/08/2018	07619884	Permanent markers	7.26
				INV	02/08/2018	7617777	Correction tape	7.76
3733.4891-01		Display Me	788.79	INV	07/08/2018	N0108624	John Wellard display brochure holders and frames	788.79
3733.5062-01		Tony Aveling & Associates Pty Ltd	990.00					

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	02/08/2018	I0004063	Health and Safety Representative training course	990.00
3733.5520-01		Master Lock Service	436.00	INV	07/08/2018	00005275	Keys cut	216.00
				INV	07/08/2018	00005286	Casuarina Wellard Fire Station rekey BBQs	220.00
3733.5551-01		Ultimate Promotions	2,200.00	INV	02/08/2018	2/2018-19	Guest speaker for sporting awards 030818	2,200.00
3733.5627-01		Tyrecycle Pty Ltd	149.07	INV	06/08/2018	711621	Tyres for trucks	149.07
3733.5858-01		Vizcom Technologies	1,407.84	INV	07/08/2018	19262	Crestron digital media wall plate transmitter	1,407.84
3733.5908-01		Rockypest Pest Management	121.00	INV	02/08/2018	INV-00025261	Investigate and treat rat infestation Unit 56	121.00
3733.5962-01		Rockingham PCYC	561.00	INV	06/08/2018	KS024426	Kidsport voucher x 4	561.00
3733.6032-01		Isuscribe	5,373.18	INV	02/08/2018	00034360	Kwinana Public Library 58 magazine subscriptions	5,373.18
3733.6267-01		Woolworths Group Limited	346.20	INV	07/08/2018	3193708	Cafe items Recquaitc	182.09
				INV	07/08/2018	3152440	Food and supplies for Mooditj Kulungars playgroup	51.25
				INV	06/08/2018	3152448	Food for Drop In programs	93.06
				INV	02/08/2018	3152441	Food for Drop In programs	19.80
3733.6370-01		Elexacom	13,353.22	INV	03/08/2018	23929	Supply generator to power Adventure Park 210718	3,803.26
				INV	06/08/2018	23943	Frank Konecny Centre check the car park lights	1,931.30
				INV	06/08/2018	23913	William Bertram repaired light and power issue	236.34
				INV	06/08/2018	23955	Supply and install generator at Pound and Cattery	2,135.65
				INV	02/08/2018	23918	Repair solar lights public access way Sharman Street	1,456.26
				INV	02/08/2018	23881	Edge Skate Park replace vandalised lighting	2,507.64
				INV	02/08/2018	23917	Investigate faulty lights at Fiona Harris Pavilion	377.73
				INV	02/08/2018	23912	Check and repair Administration back lights	732.38
				INV	02/08/2018	23911	Check all John Wellard Exit signs are in place	47.27
				INV	02/08/2018	23910	Replaced light switch in Depot crib room	78.12
				INV	02/08/2018	23909	Unable to locate damaged metal light switches base	47.27
3733.664-01		StrataGreen	1,603.19	INV	02/08/2018	108390	Envirodye Blue 1 litre x 8	252.03

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	07/08/2018	96807	4 x Sundstrom SR218 A2 filters	197.30
				INV	07/08/2018	97354	40L Quizalofop	792.00
				INV	07/08/2018	96748	2 x Sundstrom SR218 A2 and 6 x SR510 A3 Filters	361.86
3733.6692-01		John Phillips Consulting	3,300.00	INV	02/08/2018	00000185	CEO Appraisal 2018	3,300.00
3733.6703-01		Lucor Pty Ltd	1,500.00	INV	07/08/2018	INV-002970	Deposit for Christmas Function on 141218	1,500.00
3733.7158-01		Growers Agrishop	711.00	INV	07/08/2018	128825	30L Leopard Quizalofop-p-ethyl	711.00
3733.7384-01		S J Rural Supplies	403.73	INV	07/08/2018	66850	1 x 400m roll waratah horse sighter wire	403.73
3733.7385-01		What's On 4 Australia	218.90	INV	07/08/2018	WO41230	Kwinana Recquatic yearly featured listing	218.90
3733.7388-01		Morris Jacobs	155.00	INV	08/08/2018	18191-07/08/2018	Arts facilitating 070818	155.00
3733.7445-01		Mustang Welding & Fabrication	143.00	INV	06/08/2018	183	Service and repairs to 1TOZ532	143.00
3733.7557-01		Sheila Mills	39.09	INV	03/08/2018	July18	Reimbursement of travel expenses July 2018	39.09
3733.7601-01		Focus Networks	9,919.80	INV	06/08/2018	00007713	2 Lifesize Icon 400 and Lifesize Cloud Premium 10	9,919.80
3733.7604-01		Tanya Halliday	49.00	INV	06/08/2018	12tJuly2018	Reimbursement client's copy of birth certificate	49.00
3733.762-01		Blackwood & Sons Ltd	233.81	INV	06/08/2018	KW8890QJ	Ear muffs and knee pads	144.84
				INV	07/08/2018	GS1991QI	Jacket with City logo and vented safety cap	88.97
3733.7625-01		Flex Industries Pty Ltd	5,541.09	INV	02/08/2018	59450	Service and brake repairs 1ERM600	3,049.91
				INV	02/08/2018	59472	Service and repairs 1CRB723	2,491.18
3733.770-01		Jason Signmakers	3,688.96	INV	02/08/2018	189209	9 x Beach Emergency Number signs	3,688.96
3733.7809-01		Frontline Fire and Rescue Equipment	777.81	INV	06/08/2018	61159	Helmets torches torch holders and boots	777.81
3733.7812-01		Starbucks Flooring	150.00	INV	07/08/2018	INV-000430	Repair damaged floor U29 and U5 Banksia Park	150.00
3733.8031-01		TJ's Gymsports	165.00	INV	06/08/2018	KS024541	Kidsport voucher	165.00
3733.8055-01		The Green Barista Coffee	130.00	INV	02/08/2018	34048	Catering for National Tree Day 290718	130.00
3733.8219-01		Delene Wendy Henry	640.82	INV	07/08/2018	3.3	Rates Refund	640.82
3733.822-01		Kone Elevators Pty Ltd	1,482.76	INV	06/08/2018	193340099	Lift service - Darius Wells Library	1,482.76
3733.8319-01		Poolwerx Spearwood	1,697.65	INV	07/08/2018	102336-1	Daily water test and balance Adventure Park	1,697.65
3733.8325-01		Envirosweep	9,862.60	INV	07/08/2018	57650	Road sweeping July 2018	4,457.20

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	07/08/2018	57739	Footpath sweeping July 2018	1,890.90
				INV	07/08/2018	57603	Car park sweeping July 2018	3,514.50
3733.867-01		Lamp Replacements	631.40	INV	06/08/2018	IN1014989	Darius Wells Library and Recquatic Centre tubes	631.40
3733.8756-01		Ohura Consulting	20,589.70	INV	08/08/2018	427	Facilitation of EA negotiations 2018	8,342.57
				INV	08/08/2018	431	New Position Descriptions Project	7,089.50
				INV	08/08/2018	430	Performance Management Support	5,157.63
3733.888-01		Les Mills Australia	443.43	INV	07/08/2018	934746	Licence fee for August 2018	443.43
3733.8899-01		Majestic Plumbing	10,529.51	INV	07/08/2018	00219052	Service water filter 130718	108.90
				INV	07/08/2018	00219053	Replace hose Banksia Park 39	173.80
				INV	07/08/2018	00219018	BP Villa 14 replace kitchen sink taps with levers	498.21
				INV	07/08/2018	00219031	Kwinana Bowling Club service sewerage unit	1,092.30
				INV	07/08/2018	00219016	Darius Wells Centre replaced urinal cartridges	1,131.90
				INV	07/08/2018	00219075	Darius Wells Centre tested and serviced backflow	622.05
				INV	07/08/2018	00219017	CCTV inspection of drains Callistemon units 53 and 64	587.40
				INV	07/08/2018	00219013	Banksia Park U64 repair leaking hot water system	151.80
				INV	07/08/2018	00219022	Install uniset cistern Callistemon office	446.80
				INV	07/08/2018	00219010	Replaced sink mixer toilet suite shower taps head	1,134.03
				INV	07/08/2018	00219015	Banksia Park U53 repaired oven grill not lighting	171.60
				INV	07/08/2018	00219033	Banksia Park U12 fixed gas leak on isolation valve	85.80
				INV	07/08/2018	00219032	Callistemon U54 replaced rear garden tap	135.30
				INV	07/08/2018	00219027	Callistemon U64 investigate and unblock drain blockage	85.80
				INV	07/08/2018	00219028	Callistemon U72 replace broken kitchen sink wall outlet	129.80
				INV	07/08/2018	00219030	Banksia Park U14 Replaced taps with lever handles	462.96
				INV	07/08/2018	00219012	Callistemon U39 replaced garden tap	118.80
				INV	07/08/2018	00219021	Callistemon U67 repaired hot water system	237.60
				INV	06/08/2018	00219011	Wandi Pavilion replaced shower heads	391.60

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	06/08/2018	00219048	Repairs to Adventure Park equipment water service	284.90
				INV	06/08/2018	00219047	Repairs to Adventure Park aqua bubbler drink fountain	354.20
				INV	06/08/2018	00219051	Repaired Depot crib room toilet cistern	195.80
				INV	06/08/2018	00219050	Cleared Recquatic Centre blocked female basins	182.60
				INV	06/08/2018	00219046	Disinfected Darius Wells refrigerated fountain	182.60
				INV	06/08/2018	00219049	Darius Wells unblocked disabled public toilet	182.60
				INV	06/08/2018	00219020	Thomas Oval repaired vandalised male toilet tap	315.56
				INV	06/08/2018	00219025	Recquatic Centre inspected female bathroom basins	85.80
				INV	06/08/2018	00219023	Leda Hall investigated faulty hot water system	171.60
				INV	06/08/2018	00219029	Checked kitchen filtered water system John Wellard	85.80
				INV	06/08/2018	00219014	Checked Councillors kitchen and toilet hot water	85.80
				INV	06/08/2018	00219019	Fiona Harris Pavilion cleared blocked gully	281.60
				INV	06/08/2018	00219026	Locate and diagram Dog Park water and gas services	171.60
				INV	06/08/2018	00219024	Cleared blocked toilets Darius Wells Centre	182.60
3733.8979-01		Vocus Communications	1,694.00	INV	06/08/2018	P310325	Vocus business unlimited enhanced for August 2018	1,694.00
3733.8988-01		Glenda Hubert	100.00	RFD	07/08/2018	1294244	Refund bond Patio hire 080518	100.00
3733.9013-01		Department of Mines, Industry	19,895.55	INV	06/08/2018	July2018	Building Services Levy July 2018	19,895.55
3733.9019-01		Kearns Garden Supplies	190.41	INV	07/08/2018	4-July2018	Assorted hardware items Banksia Park	116.48
				INV	07/08/2018	3-July2018	Assorted hardware items Callistemon Courts	73.93
3733.905-01		Local Government Professionals	2,343.00	INV	06/08/2018	8257	Corporate Council Membership 2018 to 2019	2,343.00
3733.9146-01		Renee Anne James	100.00	RFD	07/08/2018	1302473	Refund bond patio hire 250518	100.00
3733.9431-01		Perth Energy	7,015.72	INV	03/08/2018	110099045	536.427U Recquatic	6,841.20
				INV	03/08/2018	110099050	4.11U Thomas Oval Pavilion	113.23
				INV	03/08/2018	110099051	0U Orelia Sports Pavilion	61.29
3733.9590-01		My Media Intelligence Pty Ltd	673.50	INV	07/08/2018	INV-0882	Monthly Media Monitoring coverage	673.50
3734	09/08/2018	EFT TRANSFER: - 09/08/2018	161,153.78					

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3734.3476-01		Jessica Gear	161,153.78	INV	09/08/2018	31stJuly2018	Tenure Sum Re payment for Banksia Park Estate	161,153.78
3735	09/08/2018	EFT TRANSFER: - 09/08/2018	2,000.00					
3735.10284-01		Sheba Nyakabau	2,000.00	RFD	09/08/2018	1302473	Refund bond Hall hire 250518	2,000.00
3736	15/08/2018	EFT TRANSFER: - 16/08/2018	33,059.84					
3736.568-01		Bright Futures In Home Care - Payro	33,059.84	INV	15/08/2018	300718-120818	IHC payroll 300718 to 120818	33,059.84
3737	16/08/2018	EFT TRANSFER: - 16/08/2018	14,573.43					
3737.2853-01		Maxxia Pty Ltd	5,605.03	INV	16/08/2018	July2018	Being employee NET ITC for period July 2018	480.19
				INV	12/08/2018	PY01-04-Maxxia P	Payroll Deduction	2,383.92
				INV	12/08/2018	PY01-04-Maxxia P	Payroll Deduction	2,740.92
3737.3376-01		Health Insurance Fund of WA (HIF)	1,168.40	INV	12/08/2018	PY01-04-Health I	Payroll Deduction	1,168.40
3737.3719-01		City of Kwinana - Xmas fund	7,800.00	INV	12/08/2018	PY01-04-TOK Chri	Payroll Deduction	7,800.00
3738	15/08/2018	EFT TRANSFER: - 17/08/2018	701,432.15					
3738.10244-01		Brady Street Music Inc	300.00	RFD	15/08/2018	1282593	Refund bond Hall hire 180418	300.00
3738.10300-01		Gail Catherine Godfrey	500.00	INV	09/08/2018	3.4	Rates Refund	500.00
3738.10324-01		Road Information Technologies	5,700.34	INV	09/08/2018	INV-0049	8 Pico Count traffic counters	5,700.34
3738.1034-01		North Lake Electrical Pty Ltd	2,574.00	INV	13/08/2018	51393	Install distribution board	2,574.00
3738.10373-01		Green Willows Industrial Cleaning a	300.00	INV	13/08/2018	06	Cleaning of Club House and office	300.00
3738.10387-01		Writ 'n' Process	110.00	INV	13/08/2018	INV-0380	Process Service Serving of a banning notice	110.00
3738.10403-01		Mark Readings	800.00	INV	13/08/2018	6thAugust2018	Hosting of Kwinana Sports Awards	800.00
3738.10404-01		Geoffrey Terrance Rowe	898.77	INV	09/08/2018	3.4	Rates Refund	898.77
3738.10410-01		Astronomical Society of Western	90.00	INV	14/08/2018	16464	Events on 210218	90.00
3738.10412-01		Homeward Bound Removals	400.00	INV	14/08/2018	2459	Moving service 110818 and 130818	400.00
3738.10413-01		Bryce Alexander Law	44.05	INV	13/08/2018	9thAugust2018	Reimbursement of Driver's Licence	44.05
3738.10415-01		Kings and Queens Duo	150.00	INV	14/08/2018	110818	Performance 110818	150.00
3738.10416-01		Natalie Carmody Music	150.00	INV	15/08/2018	20180811	Music performance at Pace Road Pick Up event	150.00
3738.10417-01		Kattler's Deli	200.00	INV	14/08/2018	01	Catering for Pace Road event	200.00
3738.10418-01		Jean Heedes	350.93	INV	14/08/2018	4.1	Rates Refund	350.93

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3738.10420-01		Jessica Leigh Fairess	55.60	INV	14/08/2018	7thAugust2018	Refund cancelled swimming lessons	55.60
3738.10422-01		Nupur Sanjay Karmarkar	1,000.00	RFD	15/08/2018	1319369	Refund bond Room hire 310718	1,000.00
3738.10423-01		Jessica Ellen Landgren	1,000.00	RFD	15/08/2018	1318434	Refund bond Hall hire 230718	1,000.00
3738.10424-01		Liudmila Bychkova	100.00	RFD	15/08/2018	1318279	Refund bond Patio hire 190718	100.00
3738.10425-01		Mark Western	100.00	RFD	15/08/2018	1317903	Refund bond Patio hire 160718	100.00
3738.10426-01		Hope Springs Community Church	200.00	RFD	15/08/2018	1317720	Refund bond Hall Hire 120718	200.00
3738.10427-01		Manjot Sehgal	300.00	RFD	15/08/2018	1294244	Refund bond Hall hire 080518	300.00
3738.10428-01		Karen Garlett	1,000.00	RFD	15/08/2018	1321087	Refund bond Hall hire 070818	500.00
				RFD	15/08/2018	1322831	Refund bond Hall hire 080818	500.00
3738.10429-01		Iglesia Ni Cristo (Church of Christ	800.00	RFD	15/08/2018	1317004	Refund bond Hall hire 050718	800.00
3738.1044-01		Oakford Agricultural & Garden Suppl	1,044.56	INV	13/08/2018	80718	Assorted hardware items	597.00
				INV	13/08/2018	80713	Assorted hardware items	447.56
3738.1046-01		OCE Australia Ltd	233.79	INV	13/08/2018	1453702	Monthly Charges for ColorWave 550 July 18	233.79
3738.1059-01		Vodafone Messaging	176.00	INV	13/08/2018	11207234	Pager network Access fee August 2018	176.00
3738.1142-01		Sonic Health Plus	127.60	INV	13/08/2018	1577056	Pre employment medical 030818	127.60
3738.1313-01		Daimler Trucks Perth	87.26	INV	10/08/2018	6143038D	Parts	87.26
3738.134-01		Australia Post	132.97	INV	10/08/2018	1007696079	Agency commission fees for rate receipts	132.97
3738.1343-01		Southern Metropolitan Regional Coun	150,619.70	INV	13/08/2018	13351	Annual contributions 2018 to 2019	150,619.70
3738.1357-01		Sportsworld Of WA	510.40	INV	10/08/2018	136140	Assorted goggles for proshop Recquatic	510.40
3738.1370-01		State Library of Western Australia	4,488.00	INV	14/08/2018	R1020529	Better Beginnings Program	4,488.00
3738.1408-01		Sylvia Ayton Snowden	40.00	INV	14/08/2018	8thAugust20178	Reimbursement of 4 x tickets for workshop	40.00
3738.1423-01		Telstra	93,320.97	INV	13/08/2018	1355246271Jul18	Mobiles and Devices for whole organisation to 260718	12,648.27
				INV	13/08/2018	9385375010Aug18	Internet and Data to 240818	2,491.62
				INV	09/08/2018	1170168000Jul18	Usage to 160718 corporate phone account	78,181.08
3738.1450-01		Australian Home Childcare Associati	220.00	INV	13/08/2018	0132	Annual membership for In Home care	220.00
3738.1520-01		Truck & Car Panel & Paint	885.00	INV	14/08/2018	00004046	Repairs Excess only KWN1947	500.00
				INV	10/08/2018	00004040	Repairs 1DYF483	385.00
3738.1528-01		Twights Plumbing Pty Ltd	190.00					

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	09/08/2018	F8982	Investigate leaking pipe and clear blocked waste	190.00
3738.1533-01		Udia (WA)	525.00	INV	15/08/2018	00028551	Seminar Creating a City of Villages 170818	525.00
3738.1614-01		Westbooks	259.12	INV	10/08/2018	298856	Library item	14.76
				INV	10/08/2018	298857	Assorted tiles for Library	144.97
				INV	14/08/2018	298859	Junior books for Library	14.79
				INV	14/08/2018	298858	Junior Kindy Books	84.60
3738.1726-01		Kyocera Document Solutions Australi	4,827.51	INV	10/08/2018	2852351018	Taskalfa 5052ci Zone upstairs July 2018	103.16
				INV	10/08/2018	2852351023	Taskalfa 5052ci Works Depot	72.01
				INV	10/08/2018	2852351013	ECOSYS M6535CII Works Depot July 2018	899.46
				INV	10/08/2018	2852351028	Taskalfa 7551ci Admin July 2018	396.31
				INV	10/08/2018	2852351014	Taskalfa 5052ci Admin CEO July 2018	29.32
				INV	10/08/2018	2852351019	Taskalfa 8052ci Planning July 2018	527.65
				INV	10/08/2018	2852351020	Taskalfa 8052ci Admin GSS July 2018	415.78
				INV	10/08/2018	2852351025	Taskalfa 5052ci Library ground floor July 2018	66.91
				INV	10/08/2018	2852351030	FS-C2526MFP Admin Zone CSO July 2018	112.50
				INV	10/08/2018	2852351016	Taskalfa 5052ci CC team upstairs	274.78
				INV	10/08/2018	2852351021	Taskalfa 8052c Admin Finance July 2018	123.38
				INV	10/08/2018	2852351026	Ecosys M6535ci Admin CSO July 2018	129.85
				INV	10/08/2018	2852351031	Taskalfa 4551ci William Bertram Centre July 2018	59.13
				INV	10/08/2018	2852351017	Taskalfa 5052ci Library staff July 2018	239.34
				INV	10/08/2018	2852351022	Taskalfa 5052ci FDC July 2018	454.12
				INV	10/08/2018	2852351027	Taskalfa 4551ci John Wellard Centre July 2018	52.64
				INV	10/08/2018	2852351032	Ecosys M6526cii July 2018	251.02
				INV	10/08/2018	2852351024	Taskalfa 5052ci Recquatic Centre July 2018	322.05
				INV	10/08/2018	2852351029	FS-C2626MFP Darius downstairs July 2018	100.61
				INV	10/08/2018	2852351015	Taskalfa 5052ci Incubator July 2018	197.49
3738.1762-01		Officeworks BusinessDirect	147.53	INV	15/08/2018	39756502	Items for William Bertram Centre	147.53
3738.1856-01		Cornerstone Legal	3,816.00	INV	13/08/2018	15385	Legal fees	3,816.00
3738.2024-01		Institute of Public Works Engineeri	990.00	INV	09/08/2018	22898A	Chain of responsibility workshop 050918	495.00
				INV	09/08/2018	22893	Chain of responsibility workshop 050918	495.00
3738.2048-01		Palm Lakes Gardens & Landscape Serv	1,416.80	INV	13/08/2018	36-01/08/2018	Install retaining limestone walls	1,416.80

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3738.2097-01		Beaver Tree Services Aust Pty Ltd	115,514.78	INV	09/08/2018	66835	Removal of tree stumps	7,716.60
				INV	10/08/2018	66886	Clean up works from from tree failures	1,681.67
				INV	10/08/2018	66885	General Vegetation Clearance	26,458.17
				INV	10/08/2018	66829	Street Tree pruning	78,706.84
				INV	09/08/2018	66863	Remove existing tree and supply and plant new tree	709.50
				INV	09/08/2018	66864	Relocate tree from 135 to 131 Bellingham Parade	242.00
3738.2118-01		Calista Primary School	500.00	INV	14/08/2018	13thAugust2018	Donation towards NAIDOC Day	500.00
3738.2121-01		Suez	2,647.57	INV	10/08/2018	27538687	Greenwaste pickup	1,390.20
				INV	10/08/2018	26986550	Greenwaate pickup	1,257.37
3738.2125-01		Synergy	54,038.45	INV	13/08/2018	264244690Aug18	44U Bore Pump POS	83.45
				INV	13/08/2018	294827290Aug	15U POS 3 Art Sculpture Darling Park	80.00
				INV	13/08/2018	214467920Aug18	7U BBQ Uplights Honeywood Park	72.50
				INV	13/08/2018	259587970Aug18	47U Irrigation L9011 Honeywood Avenue	84.30
				INV	13/08/2018	294428370Aug18	37U Mornington Park	81.40
				INV	13/08/2018	107029100Aug18	6266U Welllard Community Centre	1,721.35
				INV	13/08/2018	422268910Aug18	6429U Depot	1,801.95
				INV	13/08/2018	149872970Aug18	5088U Incubator	1,337.30
				INV	13/08/2018	141057240Aug18	12U The Zone	3,511.00
				INV	13/08/2018	135567600Aug18	40208.87U Library and Resource Centre	11,269.80
				INV	13/08/2018	177581220Aug18	776983.03U Recquatic	18,803.30
				INV	13/08/2018	118367820Aug18	4292U Thomas Oval Pavillion	1,084.10
3738.218-01		Bob Jane T-Mart	867.00	INV	14/08/2018	135020	Tyres and alignment	867.00
				INV	13/08/2018	00022870	Catering Deposit for function on 071218	100.00
				INV	14/08/2018	00022872	Catering 080818	352.60
				INV	14/08/2018	00022871	Catering 070818	456.00
				INV	14/08/2018	00022857	Catering 030818	8,479.00
3738.2224-01		Prestige Catering & Event Hire	9,746.10	INV	14/08/2018	00022879	Catering 130818	358.50
				INV	14/08/2018	00043825	Car hire x 2 days	140.00
				INV	10/08/2018	354435	Wipes liquid hand soap and toilet tissue	977.06
				INV	10/08/2018	2163/01040509	Timber screws	107.83
				INV	10/08/2018			

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	09/08/2018	2163/01683404	Darius Wells Library plaster access panels x 7	123.82
				INV	09/08/2018	2163/01683406	Sealer primer hinge paint roller cover and kit	96.51
				INV	09/08/2018	2163/01136092	Adventure Park miscellaneous items	55.93
				INV	09/08/2018	2163/01035368	Blade diamond standard	46.78
				INV	09/08/2018	2163/01506829	Stormwater pipe and PVC caps	58.68
				INV	09/08/2018	2163/01674037	Pre mix cement for Centennial Park and plants	99.92
				INV	15/08/2018	2163/01275026	Assorted items	182.67
				INV	10/08/2018	2163/01160924	Assorted hardware items	41.82
				INV	14/08/2018	2163/01156921	Hardware items	214.89
				INV	10/08/2018	2163/01042365	Extension lead	13.40
				INV	10/08/2018	2163/01508254	Rapid set concrete	416.40
3738.2512-01		Konnect	644.60	INV	14/08/2018	1649315231	Prolock Pentaforce Pan SDS	644.60
3738.2543-01		City of Whittlesea	13,200.00	INV	16/08/2018	1686169	Annual NGAA Membership Fee 2018/2019	13,200.00
3738.263-01		Central Regional Tafe	5,982.06	INV	13/08/2018	10004648	Dog and Cat Management Training	5,982.06
3738.2646-01		Neverfail Springwater	41.75	INV	10/08/2018	317817	Bottled water	41.75
3738.2807-01		PLE Computers Pty Ltd	180.00	INV	09/08/2018	SI-1319906	6 x ASUS slim external USB DVD writers	180.00
3738.2852-01		Downer EDI Works Pty Ltd	69.82	INV	10/08/2018	6004940	.52 tonne asphalt	69.82
3738.29-01		Acurix Networks Pty Ltd	2,368.30	INV	10/08/2018	00001715	Public wifi service May 2018	2,368.30
3738.2960-01		Australian Plant Wholesalers	440.00	INV	09/08/2018	933664	Various native plants	440.00
3738.3031-01		Specialised Security Shredding	40.48	INV	14/08/2018	00230971	GC Bin Exchange	10.12
				INV	13/08/2018	00230834	GC Bin Exchange	20.24
				INV	13/08/2018	00230833	GC Bin Exchange	10.12
3738.3105-01		Poly Pipe Traders	2,639.49	INV	14/08/2018	00092507	Assorted reticulation items	2,134.75
				INV	14/08/2018	00092471	Reticulation pipes	3.93
				INV	14/08/2018	00092404	Reticulation fittings and pipes	500.81
3738.3155-01		PFD Food Services Pty Ltd	363.10	INV	13/08/2018	KL502248	Assorted supplies for Recquatic Cafe	363.10
3738.3212-01		Marketforce Pty Ltd	880.30	INV	15/08/2018	22687	Advertisement 130718	347.47
				INV	15/08/2018	22686	Advertisement 290618	347.47
				INV	09/08/2018	22688	Seek advertising for Customer Service position	185.36
3738.335-01		City of Rockingham	1,297.66	INV	14/08/2018	100051	General waste July 2018	1,297.66

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3738.342-01		CJD Equipment Pty Ltd	305.74	INV	10/08/2018	1727235	Side marking lamp	54.31
				INV	10/08/2018	1725822	Side marking lamp and filters	251.43
3738.358-01		Coastline Mowers	1,354.47	INV	09/08/2018	17776#12	Wood drill and 4 planting augers	1,354.47
3738.3596-01		KLMedia Pty Ltd	439.06	INV	10/08/2018	1131483	Music CD for library	23.98
				INV	10/08/2018	1131484	Assorted DVDs for Library	415.08
3738.3608-01		Foreshore Rehabilitation & Landscap	297.00	INV	14/08/2018	INV-4230	Repairs to chain mesh fence	132.00
				INV	14/08/2018	INV-4229	Realign boom gate Hendy Road	165.00
3738.375-01		Commissioner Of Police	1,793.00	INV	30/06/2018	127071251	Return of Road Trauma Trust Grant funding	1,793.00
3738.407-01		Winc Australia Pty Ltd	7.26	INV	14/08/2018	9024945978	Writing pad	7.26
3738.412-01		Courier Australia	13.05	INV	14/08/2018	0344	Courier charges 310718	13.05
3738.4125-01		LD Total	72,141.69	INV	10/08/2018	93258	Landscape maintenance Wellard Village July 18	27,276.96
				INV	10/08/2018	93247	Landscape maintenance Belgravia July 18	5,023.14
				INV	10/08/2018	93249	Landscape maintenance Emerald Park July 18	3,740.56
				INV	10/08/2018	93253	Landscape maintenance Honeywood Rise July 18	986.65
				INV	10/08/2018	93260	Landscape maintenance Wellard Glen July 18	978.62
				INV	10/08/2018	93254	Landscape maintenance Latitude 32 July 18	2,162.35
				INV	10/08/2018	93262	Landscape maintenance Whistleing Grove July 18	1,965.14
				INV	10/08/2018	93251	Landscape maintenance Honeywood July 18	14,790.71
				INV	10/08/2018	93256	Landscape maintenance Sunrise July 18	999.58
				INV	09/08/2018	93257	Irrigation maintenance works July 2018	6,288.50
				INV	09/08/2018	93248	Irrigation maintenance works July 2018	1,135.94
				INV	09/08/2018	93246	Irrigation maintenance works July 2018	1,118.79
				INV	09/08/2018	93250	Irrigation maintenance works July 2018	4,475.13
				INV	09/08/2018	93252	Irrigation maintenance works July 2018	281.20
				INV	09/08/2018	93255	Irrigation maintenance works July 2018	202.86
				INV	09/08/2018	93259	Irrigation maintenance works July 2018	367.22
				INV	09/08/2018	93261	Irrigation maintenance works July 2018	348.34
3738.413-01		Covs Parts Pty Ltd	658.15	INV	10/08/2018	1650078753	Windscreen cleaner	107.79
				INV	10/08/2018	1650078812	Cleaning items and filter	103.09

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	10/08/2018	1650078911	Tie down ratchet	320.10
				INV	10/08/2018	1650078901	Pressure switch	84.70
				INV	14/08/2018	1650079246	12V switch	10.62
				INV	14/08/2018	1650079238	12V switches	31.85
3738.4301-01		Pedersens Hire & Structures	711.51	INV	14/08/2018	49018	Hire of event items	711.51
3738.434-01		Curtin University	3,950.00	INV	10/08/2018	9521205	Study fees Student ID No 18869503	3,950.00
3738.4382-01		Stonehenge Ceramics	875.00	INV	13/08/2018	C0091	Shower repairs U57 Callistemon Courts	100.00
				INV	13/08/2018	C0090	Bathroom cleaning Banksia Park	775.00
3738.4412-01		JB Hi-Fi Rockingham	150.00	INV	13/08/2018	102723080-100	Speaker and power board for youth lounge	150.00
3738.4477-01		Trophy Express	1,222.65	INV	09/08/2018	9419	Assorted netball trophies August 2018	1,222.65
3738.4664-01		AMPAC Debt Recovery (WA) Pty Ltd	7.76	INV	10/08/2018	48470	Debt recovery fee July 2018	7.76
3738.4719-01		Complete Office Supplies Pty Ltd	592.50	INV	13/08/2018	07638193	Stationery for Recquatic	485.82
				INV	09/08/2018	07638200	Hand sanitiser dispenser and refill for Zone	106.68
3738.483-01		Landgate	1,901.22	INV	13/08/2018	341849-10001098	GRV Chargeables Schedule G2018/15	577.82
				INV	13/08/2018	341835-10001098	UV Chargeables Schedule U2018/6	1,272.00
				INV	13/08/2018	865794	Land enquiry July 2018	51.40
3738.4861-01		Big W	489.40	INV	13/08/2018	057712/057713	Supplies for programs at Darius Wells	106.50
				INV	13/08/2018	057715/057714	Supplies for programs Darius Wells	106.50
				INV	15/08/2018	057729/057728	Supplies for Bertram Community Centre	98.40
				INV	09/08/2018	057724/057725	Junior books requests and popular titles	178.00
3738.5170-01		Let It Shine Oven Cleaning	590.00	INV	13/08/2018	00001499	Oven cleaning Banksia Park	295.00
				INV	14/08/2018	00001501	Oven cleaning Banksia Park Unit 19	295.00
3738.5646-01		Bent Logic	346.50	INV	14/08/2018	00032270	Membership cards	346.50
3738.5823-01		Accord Security Pty Ltd	6,810.22	INV	14/08/2018	00022730	Secure cash transit service July 18	660.00
				INV	13/08/2018	00022732	Security services Darius Wells July 2018	3,075.11
				INV	13/08/2018	00022692	Security services period ending 220718	3,075.11
3738.6018-01		ALSCO Pty Ltd	186.14	INV	14/08/2018	CPER1858592	Linen Hire	45.30
				INV	14/08/2018	CPER18588812	Linen Hire	16.78
				INV	14/08/2018	CPER1858974	Linen Hire	57.37
				INV	09/08/2018	CPER1855835	Linen hire	66.69
3738.6048-01		Data Diction Pty Ltd	4,400.00	INV	10/08/2018	2483	LINCS membership July 2018 to June 2019	4,400.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3738.6224-01		The Grant Finder	697.50	INV	15/08/2018	00125	Assisting with programs Darius Wells	697.50
3738.6267-01		Woolworths Group Limited	859.91	INV	15/08/2018	3152450	Items for Senior Morning tea	53.83
				INV	15/08/2018	2981617	Items for Pace Road Pick Up event	20.80
				INV	13/08/2018	2981616	Food for Drop In programs	43.26
				INV	13/08/2018	29040892	Items for Recquatic cafe	68.10
				INV	13/08/2018	2981604	Food and supplies for Mooditj Kulungars	137.71
				INV	13/08/2018	2981612	Milk and bag The Zone	6.99
				INV	13/08/2018	29135258	Items for Admin	104.65
				INV	13/08/2018	29054202	Items for Admin	224.84
				INV	09/08/2018	2981606	Masterchef program term 3 food	12.75
				INV	09/08/2018	2981605	Morning tea supplies	186.98
3738.6601-01		Gary John Kay	69.50	INV	14/08/2018	10thAugust2018	Reimbursement of envelopes for Awards Vouchers	69.50
3738.6700-01		Sprayking WA Pty Ltd	15,799.13	INV	10/08/2018	00001608	Treatment of weeds on hardstand surfaces	12,053.61
				INV	10/08/2018	00001607	Treatment of weeds in Streetscape Gardens	3,745.52
3738.6703-01		Lucor Pty Ltd	469.70	INV	14/08/2018	INV-002839	Catering 060818	469.70
3738.6707-01		Labourforce Impex Personnel Pty Ltd	3,955.96	INV	14/08/2018	141727	Temporary staff week ending 050818	2,199.20
				INV	09/08/2018	141563	Depot temporary staff week ending 290718	1,756.76
3738.6764-01		Willagee Rugby League Football Club	137.50	INV	14/08/2018	KS024667	Kidsport voucher	137.50
3738.682-01		Harmony Software	2,255.00	INV	13/08/2018	I3-112	Educators subscription July 2018	495.00
				INV	13/08/2018	00020672	Annual subscription Family Day Care	1,760.00
3738.7047-01		Assassins Netball Club	750.00	INV	14/08/2018	KS024753	Kidsport voucher x 4	600.00
				INV	14/08/2018	KS024754	Kidsport voucher	150.00
3738.7388-01		Morris Jacobs	155.00	INV	14/08/2018	18191-14/08/18	Art facilitation 140818	155.00
3738.7436-01		Action Glass Pty Ltd	1,171.50	INV	13/08/2018	B15829	Security door Unit 10 Callistemon Court	1,171.50
3738.7604-01		Tanya Halliday	42.40	INV	14/08/2018	10thAugust2018	Reimbursement of items for Girls Group	42.40
3738.7605-01		Flying Canape	1,832.00	INV	14/08/2018	11473	Catering 140818	1,832.00
3738.762-01		Blackwood & Sons Ltd	580.18	INV	14/08/2018	KW2231QM	Earmuffs	168.34
				INV	09/08/2018	KW6430QJ	Trousers	5.43
				INV	09/08/2018	PE3558QL	8 x Cartridge chlorine gas mask filters	406.41
3738.7625-01		Flex Industries Pty Ltd	4,951.53	INV	10/08/2018	59500	Service 1CRB723	3,961.06
				INV	14/08/2018	59618	Service 1GBJ339	990.47

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3738.7809-01		Frontline Fire and Rescue Equipment	6,470.48	INV	14/08/2018	61315	Parts and items for Fire Brigade	331.76
				INV	10/08/2018	61314	Fire hoses for Kwinana South Station	6,138.72
3738.7937-01		Kerb Direct Kerbing Pty Ltd	1,990.23	INV	15/08/2018	5869	Install kerbing at various locations	1,990.23
3738.795-01		K Mart	80.00	INV	13/08/2018	143751	Kitchen equipment The Zone	60.00
				INV	09/08/2018	143389	20 x Cards	20.00
3738.8302-01		Chris Kershaw Photography	550.00	INV	10/08/2018	L2287	Annual sports awards dinner photographer 030818	550.00
3738.8317-01		WA Disabled Sports	300.00	RFD	15/08/2018	1317835	Refund bond Patio hire 090818	300.00
3738.8325-01		Envirosweep	2,971.10	INV	10/08/2018	57604	Road sweeping July 18	2,971.10
3738.8404-01		Red Dog Tae Kwon Do	300.00	INV	14/08/2018	KS024659	Kidsport x 2	300.00
3738.854-01		Kwinana Swimming Club	2,000.00	RFD	15/08/2018	1318975	Refund bond Hall hire 260718	2,000.00
3738.8894-01		Landscape and Maintenance Solutions	10,408.42	INV	09/08/2018	INV-0761	Passive and Streetscape mowing July 2018	8,734.48
				INV	09/08/2018	INV-0760	Mowing service 250718	1,673.94
3738.8899-01		Majestic Plumbing	649.73	INV	09/08/2018	00219100	Public toilet inspect faulty urinal flush	85.80
				INV	09/08/2018	00219099	Recquatic chemical dump shower eye wash station	563.93
3738.8998-01		McLeods	30,604.89	INV	10/08/2018	104363	Assistance in debt collection of outstanding rates	688.60
				INV	10/08/2018	104362	Assistance in debt collection of outstanding rates	647.35
				INV	10/08/2018	104361	Assistance in debt collection of outstanding rates	647.90
				INV	10/08/2018	104360	Assistance in debt collection of outstanding rates	1,576.05
				INV	10/08/2018	104365	Assistance in debt collection of outstanding rates	654.50
				INV	10/08/2018	104366	Assistance in debt collection of outstanding rates	1,636.75
				INV	10/08/2018	104364	Assistance in debt collection of outstanding rates	469.70
				INV	10/08/2018	104359	Assistance in debt collection of outstanding rates	649.55
				INV	09/08/2018	104407	Supply of legal services for legal matter	3,535.40
				INV	09/08/2018	104410	Legal services for various legal matters	1,337.60
				INV	09/08/2018	104151	Supply of legal services for various legal matters	1,577.95

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	09/08/2018	104406	Supply of legal services for various legal matters	783.20
				INV	09/08/2018	104409	Supply of legal services for various legal matters	300.85
				INV	09/08/2018	104230	Supply of legal services for various legal matters	1,722.05
				INV	09/08/2018	104411	Supply of legal services for various legal matters	6,580.31
				INV	13/08/2018	104444	Legal fee Matter No 42642	4,613.73
				INV	15/08/2018	104284	Legal fee Matter No104284	1,821.16
				INV	15/08/2018	104152	Legal fee Matter No 42921	589.05
				INV	15/08/2018	104150	Legal fee Matter No 42164	262.90
				INV	15/08/2018	104408	Legal fee Matter No 42741	510.29
3738.9019-01		Kearns Garden Supplies	450.29	INV	14/08/2018	24-10/08/18	Plaster filler	16.50
				INV	10/08/2018	22	Assorted hardware items	178.73
				INV	10/08/2018	24-July2018	Assorted hardware items July 2018	255.06
3738.9030-01		Air Liquide Australia	109.16	INV	09/08/2018	UX0810	Oxygen cylinders rental 010718 to 310718	109.16
3738.9046-01		Cellarbrations Medina	1,965.92	INV	10/08/2018	558062	Annual sports awards dinner bar drinks 030818	338.92
				INV	10/08/2018	557996	Annual sports awards dinner bar drinks 030818	1,627.00
3738.905-01		Local Government Professionals	920.00	INV	09/08/2018	9097	Community Development Conference 060918 to 070918	920.00
3738.9323-01		Whirligig Designs	268.50	INV	13/08/2018	03/08/2018	Catering Sports Award Dinner 030818	268.50
3738.9345-01		Accidental Health & Safety Perth	175.23	INV	13/08/2018	613378	First aid items for Darius Wells	175.23
3738.9572-01		Aaron Thomas	650.00	INV	15/08/2018	007	Open Mic event 090818	650.00
3738.9870-01		The Worm Shed	5,575.00	INV	13/08/2018	00004892	Workshop 070818 and worm cafe	5,575.00
3738	21/08/2018	EFT TRANSFER: - 17/08/2018	-305.00				Returned payment Supplier #11	
3738	24/08/2018	EFT TRANSFER: - 17/08/2018	-6,500.00				Returned payment Supplier #10414	
3739	16/08/2018	EFT TRANSFER: - 17/08/2018	119,848.53					
3739.565-01		Bright Futures Family Day Care - Pa	119,848.53	INV	16/08/2018	300718-120818	Family Daycare Payroll 300718 to 120818	119,848.53
3740	22/08/2018	EFT TRANSFER: - 22/08/2018	201,764.00					
3740.153-01		Australian Taxation Office	201,764.00	INV	10/08/2018	PY99-04-Australi	Payroll Deduction	972.00
				INV	12/08/2018	PY01-04-Australi	Payroll Deduction	200,792.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3741	22/08/2018	EFT TRANSFER: - 23/08/2018	273,430.55					
3741.10010-01		Cyrenian House	300.00	RFD	21/08/2018	1316999	Refund bond Hall hire 150818	300.00
3741.10202-01		TJS Services Group Pty Ltd	141.44	INV	21/08/2018	153306	Puregiene tissues	141.44
3741.10373-01		Green Willows Industrial Cleaning a	525.00	INV	21/08/2018	08	Vacate cleaning	300.00
				INV	21/08/2018	07	Clubhouse and office cleaning	225.00
3741.10421-01		Starleaton Holdings Pty Ltd	421.30	INV	22/08/2018	QT0006758	Phototex roll for OCE Colorwave plotter	421.30
3741.10430-01		Craig Pentland	1,931.78	INV	20/08/2018	4.2	Rates Refund	1,931.78
3741.10431-01		Christine Lee Davids	454.23	INV	20/08/2018	4.2	Rates Refund	454.23
3741.10433-01		Jodie McDonald	20.00	INV	20/08/2018	14thAugust2018	Refund program fee due to becoming unwell	20.00
3741.10434-01		Daniel Robert Carter	500.00	INV	20/08/2018	4.3	Rates Refund	500.00
3741.10435-01		Peter Thomas Edward Howell	1,759.82	INV	20/08/2018	4.4	Rates Refund	1,759.82
3741.10436-01		Bryony Elizabeth Edmunds	60.00	INV	21/08/2018	Rec#:1205935	Sterilisation of dogs	60.00
3741.10437-01		Cheryl Lee Teo	200.00	RFD	21/08/2018	1320594	Refund bond Hall hire 010818	200.00
3741.10438-01		Salome Bates	1,000.00	RFD	21/08/2018	1310332	Refund bond Hall hire 120618	1,000.00
3741.10439-01		Kerrie James	137.80	RFD	21/08/2018	1258378	Refund bond Hall hire 260218	100.00
				INV	21/08/2018	20thAugust2018	Refund cancelled hire fee 271018	37.80
3741.10440-01		Rebecca Jade Constantine	138.25	INV	21/08/2018	20thAugust2018	Refund cancelled hire fee 020918	38.25
				RFD	21/08/2018	1320814	Refund bond Hall hire 030818	100.00
3741.10441-01		Natasha Erica Reece	137.80	RFD	21/08/2018	1310252	Refund bond Patio hire 050618	100.00
				INV	21/08/2018	21stAugust2018	Refund of hire fee due to power outage	37.80
3741.10442-01		Lory Victoriano Pe	540.00	INV	21/08/2018	A/N22525	Crossover subsidy rebate	540.00
3741.10443-01		Air-Born Amusements	500.00	INV	22/08/2018	00005948	Bouncy castle for Pace Road event	500.00
3741.106-01		Armadale Reptile Centre	715.00	INV	21/08/2018	210917	Snake Awareness Training 210918	715.00
3741.11-01		ABA Automatic Gates	305.00	INV	10/08/2018	IN079483	Repair Depot boom gate not operating correctly	305.00
3741.1130-01		Port Printing Works	79.93	INV	20/08/2018	090818	RKCC breakfast invitations	79.93
3741.1142-01		Sonic Health Plus	189.20	INV	21/08/2018	1577879	Corporate consultation 010818	189.20
3741.1157-01		Quality Traffic Management Pty Ltd	1,700.37	INV	21/08/2018	25515	Traffic control 050718	900.01
				INV	21/08/2018	25521	Traffic control 060718	800.36

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3741.1178-01		Holcim (Australia) Pty Ltd	672.32	INV	21/08/2018	9403829017	Concrete for Chiswich Parade and Conduit Lane	336.16
				INV	21/08/2018	9403831264	Concrete delivered to Thaxted Street Wellard	336.16
3741.1227-01		Rockingham Holden	65,880.01	INV	21/08/2018	48894	Holden Colorado 4x4 Crew Cab	38,306.50
				INV	21/08/2018	48893	Holden Equinox Ls 1.5l Turbo Auto 2wd	27,573.51
3741.1276-01		Satellite Security Services	208.00	INV	20/08/2018	IV003550	Service PIR switch Recquatic	208.00
3741.1277-01		Savage Garden Services	5,712.00	INV	17/08/2018	62-09/08/18	Clean up litter and verge slashing	630.00
				INV	17/08/2018	61-13/08/18/	Maintenance of public access ways	1,650.00
				INV	17/08/2018	60-13/08/18	Maintenance of roundabout	3,432.00
3741.1338-01		South West Group	34,475.65	INV	21/08/2018	181905	2018 to 2019 Council Contributions 1st Instalment	34,475.65
3741.1367-01		Star Trophies	394.90	INV	20/08/2018	00014194	Sports awards trophies and perpetual plaques	394.90
3741.1375-01		Stewart & Heaton Clothing Co Pty Lt	2,267.69	INV	20/08/2018	SIN-2895526	Trousers for Kwinana South Fire Brigade	2,267.69
3741.1423-01		Telstra	50.05	INV	22/08/2018	0335568200Aug18	Charges to 090818 Banksia Park	50.05
3741.1572-01		Western Australian Local Government	1,665.00	INV	21/08/2018	I3072904	2018 Transport and Road Forum	50.00
				INV	21/08/2018	I3072305	2018 WALGA Convention	1,615.00
3741.1577-01		WA Rangers Association Inc	2,300.00	INV	20/08/2018	SD1822	2018 Rangers Training Conference x 4 staff	2,300.00
3741.1589-01		Waste Stream Management Pty Ltd	231.00	INV	21/08/2018	00827450	Tipping fees 8 to 15 August 18	231.00
3741.1609-01		West Australian Newspapers Limited	68.84	INV	22/08/2018	02624567	Newspaper subscription 070718 to 080818	68.84
3741.1614-01		Westbooks	194.54	INV	20/08/2018	299042	Assorted titles for Library	194.54
3741.1726-01		Kyocera Document Solutions Australi	2,120.80	INV	20/08/2018	2811401837	Document finisher and folding unit	2,011.90
				INV	22/08/2018	2811406292	Pickup up printer Public Library Taskalfa 4550ci	108.90
3741.1762-01		Officeworks BusinessDirect	49.87	INV	20/08/2018	40025432	USB for CCTV Footage	49.87
3741.19-01		Absolute Painting Services	429.00	INV	21/08/2018	INV-0576	Repair bath wall and ceiling Banksia Park	429.00
3741.2021-01		Subway Kwinana	1,117.60	INV	20/08/2018	72	Subway platters for YActivate 2018	1,117.60
3741.2048-01		Palm Lakes Gardens & Landscape Serv	1,392.20	INV	21/08/2018	42	Weed mat and gravel	466.00
				INV	21/08/2018	44-14/08/18	Install limestone blocks	926.20
3741.2125-01		Synergy	7,325.85	INV	20/08/2018	114826720Aug18	12U Bore Industrial Streetscapes	78.10
				INV	20/08/2018	938812910Aug18	6467U Wandi Reserve	1,423.95

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	20/08/2018	958335710Aug18	7901U Orelia Oval	2,384.95
				INV	20/08/2018	295922660Aug18	76U Willandra Park	102.60
				INV	20/08/2018	201813230Aug18	1407U Mandogalup Bore and Fire Station	491.90
				INV	20/08/2018	144372270Aug18	44U Thomas Oval reticulation	105.50
				INV	20/08/2018	129764890Aug18	3508U Lambeth Park POS	897.05
				INV	20/08/2018	657514270Aug18	0U 3 Phase Power on Oval	75.15
				INV	20/08/2018	179469390Aug18	5128U Bertram Community Centre	1,468.25
				INV	20/08/2018	830669340Aug18	6U Fire Pump	71.05
				INV	20/08/2018	198511040Aug18	145U Bore BBQ Lights at Bruny Meander	150.40
				INV	20/08/2018	290833680Aug18	22U BBQ Lights at Honeywood Park	76.95
3741.219-01		BOC Limited	1,185.36	INV	22/08/2018	5004109041	Annual Service Container Charge 010818 to 310719	1,185.36
3741.2224-01		Prestige Catering & Event Hire	349.20	INV	20/08/2018	00022937	Catering 160818	349.20
3741.2429-01		Forestvale Trees	264.00	INV	21/08/2018	00013532	Plants	264.00
3741.248-01		Bunnings Building Supplies	1,538.56	INV	21/08/2018	2163/01509547	Paint supplies for Adventure Park	324.84
				INV	21/08/2018	2163/01685553	Hardware items for Adventure Park	42.75
				INV	21/08/2018	2163/01686068	Plant items	238.34
				INV	20/08/2018	2163/01508844	Parts for door closer	116.85
				INV	20/08/2018	2163/01508846	Hardware items for Adventure Park	71.10
				INV	20/08/2018	2163/01509167	Various hardware items	247.70
				INV	20/08/2018	2163/01509169	Moulding cover strap for Smirks Cottage	10.17
				INV	20/08/2018	2163/01507997	Shelving units	486.81
3741.2492-01		Yakka Pty Ltd	385.05	INV	20/08/2018	10649639	Uniforms	126.65
				INV	20/08/2018	10595228	Uniforms	120.70
				INV	20/08/2018	10633412	Uniforms	137.70
3741.264-01		Cabcharge Australia Ltd	434.70	INV	20/08/2018	00989066P1808	Cabcharges period 160718 to 120818	434.70
3741.2646-01		Neverfail Springwater	45.42	INV	20/08/2018	343608	Bottled water Admin	45.42
3741.275-01		Cannon Hygiene Australia Pty Ltd	1,177.90	INV	21/08/2018	96171242	Supply of hygiene products for various facilities	1,177.90
3741.2852-01		Downer EDI Works Pty Ltd	237.80	INV	21/08/2018	9306654	Emulsion	237.80
3741.2903-01		Insight Call Centre Services	2,342.34	INV	20/08/2018	00093118	Overcalls fee for month of July 2018	2,342.34
3741.302-01		Chadson Engineering	194.15	INV	21/08/2018	AO078138	Pool testing tablets	194.15
3741.3031-01		Specialised Security Shredding	30.14	INV	21/08/2018	00231263	Shredding services GC bin exchange	10.12

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	21/08/2018	00231262	Shredding services GC bin exchange	20.02
3741.3320-01		Arbor Logic	506.00	INV	21/08/2018	00003919	Inspection and tree report	506.00
3741.357-01		BullAnt Security Pty	430.45	INV	20/08/2018	10,175,669	Engraved key	31.05
				INV	20/08/2018	10,175,572	Engraved key for Medina Hall	31.05
				INV	20/08/2018	10,175,561	Cutting of 10 x A keys	75.50
				INV	20/08/2018	10,175,717	Cutting of 10 x C keys	75.50
				INV	20/08/2018	10,175,544	Cutting of 3 x keys for Darius Wells	93.15
				INV	20/08/2018	10,175,478	Cutting of T24 key for Medina Hall	31.05
				INV	20/08/2018	10,175,246	Cut and engrave 3 x twin keys	93.15
3741.358-01		Coastline Mowers	304.20	INV	21/08/2018	17886#5	Blower	304.20
3741.3608-01		Foreshore Rehabilitation & Landscap	2,632.30	INV	21/08/2018	INV-4238	Repair boom gate Sloan Reserve	1,559.80
				INV	20/08/2018	INV-4231	Install 2 custom lockable boom stops	858.00
				INV	20/08/2018	INV-4236	Repairs to chain mesh fence	214.50
3741.3686-01		KAJ Installations & Services	716.00	INV	21/08/2018	00004764	Install Auto opener to roller door	612.00
				INV	21/08/2018	00004738	Program remote transmitter to auto door	104.00
3741.3977-01		MRP Osborne Park-General Pest/Termi	6,308.15	INV	20/08/2018	75047	3 monthly termite inspection Depot	372.94
				INV	20/08/2018	75049	6 monthly termite inspection	337.05
				INV	20/08/2018	75045	Quarterly rodents treatment	235.66
				INV	20/08/2018	75054	6 monthly termite inspection Sloan Drive	377.49
				INV	20/08/2018	75053	6 monthly termite inspection Old St John Building	107.07
				INV	20/08/2018	75061	Quarterly rodents control The Zone	217.00
				INV	20/08/2018	75060	6 monthly spiders control	793.10
				INV	20/08/2018	75059	Quarterly rodents treatment Wheatfield Cottage	366.00
				INV	20/08/2018	75058	Quarterly termite inspection Sloan Cottage	235.87
				INV	20/08/2018	75057	Quarterly rodents treatment	257.08
				INV	20/08/2018	75056	Quarterly rodents treatment	235.66
				INV	20/08/2018	75055	Quarterly rodents treatment Wellard	226.60
				INV	20/08/2018	75052	Pavillion Quarterly termite inspection	161.71
				INV	20/08/2018	75050	6 monthly termite inspection Casuarina Hall	121.54
				INV	20/08/2018	475051	3 monthly termite inspection Senior Citizen Centre	352.94
				INV	20/08/2018	75240	Quarterly rodents control John Wellard Centre	217.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	20/08/2018	75046	Quarterly rodents control Admin	525.91
				INV	20/08/2018	75048	3 monthly termite inspection Medina Hall	289.97
				INV	20/08/2018	75044	6 monthly termite inspection Girl Guides Hall	105.06
				INV	20/08/2018	75155	Quarterly rodents control	257.50
				INV	20/08/2018	75157	Quarterly rodents control Sloan Cottage	257.50
				INV	20/08/2018	75156	Quarterly rodents treatment Smirk Cottage	257.50
3741.4002-01		Savage Surveying	495.00	INV	21/08/2018	21503	Detailed survey for Orelia Oval	495.00
3741.407-01		Winc Australia Pty Ltd	1,140.61	INV	21/08/2018	9025060587	Stationery	1,140.61
3741.412-01		Courier Australia	26.10	INV	21/08/2018	0345	Courier charges 060818	13.05
				INV	21/08/2018	0346	Courier charge 130818	13.05
3741.413-01		Covs Parts Pty Ltd	686.83	INV	21/08/2018	1650080156	Parts	31.56
				INV	21/08/2018	1650080162	Parts	31.56
				INV	21/08/2018	1650080225	Parts	84.15
				INV	21/08/2018	1650080224	Nitrile gloves	30.27
				INV	21/08/2018	1650080197	HD Nitrile gloves	30.27
				INV	21/08/2018	1650080134	Parts	135.30
				INV	17/08/2018	1650080021	Parts	223.22
				INV	17/08/2018	1650080052	Parts	120.50
3741.4179-01		Australian Office Leading Brands	666.71	INV	21/08/2018	96049287	DL Envelopes	145.31
				INV	21/08/2018	96049288	DL Envelopes Window Faced	284.90
				INV	21/08/2018	96049289	C5 Envelopes	71.50
				INV	21/08/2018	96049290	C4 Envelopes	165.00
3741.4246-01		Atom Supply	182.63	INV	21/08/2018	P485538	Jacket uniform Depot	56.65
				INV	21/08/2018	P485004	Safety gloves	125.98
3741.4279-01		Data #3 Limited	10,744.52	INV	20/08/2018	01746112	2 x Dell Networking N2024P Switch	10,744.52
3741.4350-01		T J Depiazzi & Sons	3,185.60	INV	17/08/2018	95132	50m3 mulch	3,185.60
3741.4477-01		Trophy Express	87.30	INV	20/08/2018	9470	Additional trophies for Soccer Grand Final	87.30
3741.4719-01		Complete Office Supplies Pty Ltd	8.61	INV	21/08/2018	07652992	Stationery The Zone	4.98
				INV	21/08/2018	07652991	Stationery The Zone	3.63
3741.4861-01		Big W	92.00	INV	20/08/2018	057736	Gloves for Pace Road event	92.00
3741.504-01		Domino's Pizza - Kwinana Market Pla	322.50	INV	20/08/2018	98276-11/8/18	Assorted pizza for YACtivate 2018	114.25
				INV	21/08/2018	98276-14/07/18	Catering for Open Mic Night Event	208.25

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3741.5247-01		Abraham Pattiselanno	96.83	INV	20/08/2018	15thAugust18	Reimbursement of items for YACtivate 2018	96.83
3741.5381-01		Centrecare	3,969.18	INV	21/08/2018	19508	EAP annual registration fee	1,026.66
				INV	21/08/2018	19509	EAP annual registration short charges	2,942.52
3741.5520-01		Master Lock Service	405.00	INV	21/08/2018	00005309	Cutting of keys	128.00
				INV	20/08/2018	00005287	Fit lever handles to door Dome Cafe	130.00
				INV	20/08/2018	00005300	4 x F2 keys	32.00
				INV	20/08/2018	00005313	Rekey secure handle Koorliny Art Centre	115.00
3741.560-01		Goodchild Enterprises	196.90	INV	17/08/2018	531728	Bosch 60038-S4	196.90
3741.5750-01		Kev's Wheelie Kleen	401.50	INV	20/08/2018	2072	Wheelie bin cleaning 250718	187.00
				INV	20/08/2018	2073	Wheelie bin cleaning 250718 Darius Wells	214.50
3741.5996-01		CMS Engineering Pty Ltd	8,863.44	INV	20/08/2018	29470	Service air conditioner Administration	1,164.90
				INV	20/08/2018	29469	Air conditioner service Depot	1,523.50
				INV	20/08/2018	29443	Maintenance of air conditioners July 18	3,035.55
				INV	20/08/2018	29444	Maintenance of air conditioners July 18	1,540.91
				INV	20/08/2018	29445	Maintenance of air conditioners July 18	1,040.88
				INV	21/08/2018	29471	Service air conditioners Administration	557.70
3741.6032-01		Isunsubscribe	67.80	INV	21/08/2018	00034544	Extra magazine costs due to price changes.	67.80
3741.6261-01		Rebecca J Flanagan	1,600.00	INV	21/08/2018	14thAugust18	William Bertram Term 3 2018 Rhyme and Story time	1,600.00
3741.6267-01		Woolworths Group Limited	1,812.11	INV	21/08/2018	2981637	Items for Girls Group Christmas in July	33.59
				INV	21/08/2018	29337521	Items for Admin	216.10
				INV	21/08/2018	2981631	Milk for Zone	4.00
				INV	21/08/2018	2981632	Items for Drop In and other Programs	63.48
				INV	21/08/2018	2981629	Depot morning tea supplies	75.85
				INV	21/08/2018	2981634	Items for Youth event	58.20
				INV	21/08/2018	2981645	Gift cards	223.80
				INV	21/08/2018	2981646	Supplies for Girls Group	50.32
				INV	21/08/2018	2981642	Items for Banksia Park	106.71
				INV	21/08/2018	2981648	Morning tea supplies	60.05
				INV	21/08/2018	3152403	Milk Darius Wells	7.00
				INV	20/08/2018	3152442	Cafe items	148.00
				INV	20/08/2018	2981610	Cleaning items for Recquatic	37.95
				INV	20/08/2018	2981611	Cafe items	30.00
				INV	20/08/2018	29225418	Cafe items	114.02

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	20/08/2018	2981630	Assorted sundries for Recquatic	14.10
				INV	20/08/2018	2981624	Master Chef program Assorted	11.10
				INV	20/08/2018	29194497	Items for Admin	263.83
				INV	20/08/2018	2981618	Items for Activate 2018	294.01
3741.6289-01		Clockwork Print	431.20	INV	20/08/2018	INV-0053128	Power outage signs for Adventure Park	162.80
				INV	22/08/2018	INV-0053127	Signs and stickers	268.40
3741.6336-01		Print and Design Online Pty Ltd	248.00	INV	21/08/2018	15066	Website development changes	248.00
3741.6368-01		ATI-Mirage Pty Ltd	11,220.00	INV	20/08/2018	00035557	PRINCE2 Foundation and Practitioner Training	3,740.00
				INV	20/08/2018	00035558	PRINCE2 Foundation and Practitioner Training	3,740.00
				INV	20/08/2018	00035559	PRINCE2 Foundation and Practitioner Training	3,740.00
3741.6370-01		Ellexacom	5,960.65	INV	20/08/2018	24071	Install additional power points	306.30
				INV	20/08/2018	24026	Electrical services after water leak Recquatic	2,401.62
				INV	20/08/2018	24014	Test emergency and exit lights Admin	189.07
				INV	20/08/2018	24025	Service electrical systems Margaret Feilman Centre	1,490.94
				INV	20/08/2018	24021	Service sensor light Recquatic	824.10
				INV	20/08/2018	24018	Test emergency and exit lights Family Day Care	212.71
				INV	20/08/2018	24017	Test emergency and exit lights Tennis Club	205.04
				INV	20/08/2018	24016	Test emergency and exit lights Leda Hall	141.80
				INV	20/08/2018	24015	Test emergency and exit lights Out of School Care	141.80
				INV	21/08/2018	24019	Repair to pathway lights Banksia Park	47.27
3741.6382-01		Zip Heaters	560.79	INV	20/08/2018	3012967	Repair tap at John Wellard Centre	268.39
				INV	20/08/2018	3012959	Repair dispensing tap The Zone	292.40
3741.6567-01		Poolegrave Signs	533.50	INV	20/08/2018	00010792	Supply and install of Wellard carpark sign	533.50
3741.6634-01		Daniel Rhys Gibbs	270.00	RFD	22/08/2018	1320702	Refund bond Crossover rebate	270.00
3741.6707-01		Labourforce Impex Personnel Pty Ltd	1,756.76	INV	21/08/2018	142025	Depot temporary staff week ending 120818	1,756.76
3741.6749-01		Australia Post	2,628.01	INV	20/08/2018	1007707219	Postage for period ending 310718	2,628.01
3741.6860-01		Advance Scanning Services	1,265.00	INV	21/08/2018	20162706	Site investigation	819.50
				INV	20/08/2018	20162683	Scanning service 070818	445.50

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3741.72-01		All Lines & Signs	1,155.00	INV	21/08/2018	I0040818	Linemarking of parking area Banksia Park	825.00
				INV	21/08/2018	I0030818	Linemarking to new paved area Banksia Park	330.00
3741.7388-01		Morris Jacobs	155.00	INV	21/08/2018	18191-21/08/18	Arts facilitation 210818	155.00
3741.7436-01		Action Glass Pty Ltd	1,080.04	INV	21/08/2018	B17122	Repairs to glass doors	758.29
				INV	21/08/2018	B17439	Repair to bathroom window	321.75
3741.7470-01		Tiger Fitness WA	329.73	INV	17/08/2018	SER5051	Replaced ergo bar on Stairmaster	329.73
3741.7502-01		Redox Pty Ltd	1,170.40	INV	20/08/2018	4378949	1 X Pallet of Diatomaceous Earth	1,170.40
3741.7541-01		Tiffany Pearson	85.00	INV	21/08/2018	20thAugust18	Reimbursement Working With Children check	85.00
3741.7575-01		Pickles Auctions	121.00	INV	21/08/2018	26012237	Pick up of vehicle 010818	121.00
3741.762-01		Blackwood & Sons Ltd	389.52	INV	21/08/2018	KW0040QO	Spray paints	233.93
				INV	21/08/2018	KW2856QO	Gloves	114.07
				INV	21/08/2018	PE3366QO	Cricket style hats	41.52
3741.8055-01		The Green Barista Coffee	100.00	INV	21/08/2018	34050	Coffees for Pace Road event	100.00
3741.8066-01		Photo Perth Wholesale Pty Ltd	1,029.77	INV	21/08/2018	L1923	Photo albums	1,029.77
3741.81-01		Fesa Direct Brigade Alarm	10,926.36	INV	20/08/2018	46871	Annual Monitoring Orelia Sports Pavilion	1,821.06
				INV	20/08/2018	47011	Annual Monitoring Administration	1,821.06
				INV	20/08/2018	47012	Annual Monitoring Recquatic Centre	1,821.06
				INV	20/08/2018	46876	Annual Monitoring Darius Wells	1,821.06
				INV	20/08/2018	46877	Annual Monitoring The Zone	1,821.06
				INV	20/08/2018	46878	Annual Monitoring Wellard Community Centre	1,821.06
3741.8134-01		Ecospill Pty Ltd	52.25	INV	21/08/2018	INV00769287E	Replenishment of spill equipment	52.25
3741.833-01		Kwinana District Tennis Club Inc	54.00	INV	21/08/2018	1stAugust2018	Hire fees for period up to July 2018	54.00
3741.8649-01		Ezy2c GPS Tracking	44.83	INV	21/08/2018	59150	SMS delivery fee July 18	7.15
				INV	21/08/2018	59259	SMS delivery fee June 18	37.68
3741.8841-01		Links Modular Solutions	32,422.50	INV	20/08/2018	19047	Support and Upgrades Annual Fee 010918 to 310819	32,422.50
3741.8872-01		Jem Face Painting	135.00	INV	21/08/2018	397	Face painting 150818	135.00
3741.8899-01		Majestic Plumbing	450.28	INV	21/08/2018	220074	Service leaking hot water system	244.99
				INV	21/08/2018	220071	Install new toilet seat	86.75
				INV	21/08/2018	220070	Service gas pipe	118.54

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3741.8905-01		Kelli Anne Hayward	111.04	INV	21/08/2018	17thAugust2018	Reimbursement of parking and leaving morning tea	111.04
3741.9074-01		Natsales Advertising Pty Ltd	1,732.50	INV	21/08/2018	00033742	Advertising on Gilmore Ave bins 010818 to 311018	1,732.50
3741.9117-01		Gaye McMath	1,980.00	INV	20/08/2018	5	Independent Audit Committee Member fees for Audit	1,980.00
3741.9326-01		Gymcare	163.46	INV	20/08/2018	3311	Quarterly safety check and service	163.46
3741.9732-01		Builders Training of WA	520.83	INV	21/08/2018	00006156	Advanced Diploma of Building Surveying	520.83
3741.9764-01		Datacom Systems (AU) Pty Ltd - WA	1,903.00	INV	21/08/2018	INV0013691	Monthly Saas Fee Sphere Website August 2018	1,903.00
3742	24/08/2018	EFT TRANSFER: - 24/08/2018	1,294.70					
3742.549-01		Esanda	1,294.70	INV	24/08/2018	LATO01641811A	Monthy lease fees for KWN700	1,294.70
3743	24/08/2018	EFT TRANSFER: - 24/08/2018	6,500.00					
3743.10414-01		Rodney Thomas Webb	6,500.00	INV	13/08/2018	3.8	Rates Refund	6,500.00
3744	29/08/2018	EFT TRANSFER: - 30/08/2018	663,458.92					
3744.10078-01		Web Track	506.00	INV	29/08/2018	INV-2357	Transfer GPS between vehicles	506.00
3744.10202-01		TJS Services Group Pty Ltd	247.50	INV	24/08/2018	153315	Carpet clean due to roof leak Recquatic	247.50
3744.10313-01		Ikea Pty Ltd	873.94	INV	27/08/2018	153233962	Furniture for Recquatic foyer	873.94
3744.10373-01		Green Willows Industrial Cleaning a	250.00	INV	29/08/2018	09	Banksia Park office and clubhouse spring cleaning	250.00
3744.10374-01		Grand Construction Pty Ltd T/As Gra	159.35	INV	28/08/2018	BP2018/513	Refund building application BP2018/513	159.35
3744.10409-01		Bon Leisure	12,100.00	INV	27/08/2018	266	Recquatic Business Case 50%	12,100.00
3744.10446-01		Danielle De Buisson	527.00	INV	29/08/2018	4.6	Rates Refund	527.00
3744.10448-01		Rebecca Cool	660.00	INV	28/08/2018	60	Author Talk Book Week 2018	660.00
3744.10451-01		Lisa Tulk	124.15	INV	29/08/2018	Refund	Partial refund Business closed	124.15
3744.10452-01		Jaclyn Rhodes	100.00	RFD	29/08/2018	1325555	Refund bond Hall hire 210818	100.00
3744.10453-01		Tayla Annette Sargeant	100.00	RFD	29/08/2018	1318880	Refund bond Hall hire 250718	100.00
3744.10454-01		Natasha Roberts	100.00	RFD	29/08/2018	1316410	Refund bond Hall hire 280618	100.00
3744.10455-01		Amina Spahich	100.00	RFD	29/08/2018	1302560	Refund bond Hall hire 280518	100.00
3744.10456-01		Christian Revival Church Kwinana	300.00	RFD	29/08/2018	1143996	Refund bond Hall hire	300.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3744.1078-01		Parks And Leisure Australia	665.50	INV	27/08/2018	10732	Corporate 2 Membership	665.50
3744.11-01		ABA Automatic Gates	974.85	INV	29/08/2018	IN079660	Repairs to boom gate at Depot	974.85
3744.1142-01		Sonic Health Plus	198.00	INV	27/08/2018	1581199	Pre employment medical 090818	198.00
3744.1227-01		Rockingham Holden	65,507.18	INV	29/08/2018	48854	Holden Colorado 4x2 single cab LS Auto	32,753.59
				INV	29/08/2018	48855	Holden Colorado 4x2 single cab LS Auto	32,753.59
3744.1276-01		Satellite Security Services	2,310.75	INV	24/08/2018	IV003529	Replace toilet door Adventure Park	504.50
				INV	24/08/2018	IV003504	Service power cycled system Fiona Harris Pavilion	285.00
				INV	24/08/2018	IV003533	Re cabled keypad	899.80
				INV	24/08/2018	IV003534	Replace panel battery leads	120.00
				INV	24/08/2018	IV003599	Remove roller door to new location	180.00
				INV	24/08/2018	IV003607	Replace battery for radio duress device	171.45
				INV	24/08/2018	IV003503	Service panel tamper Recquatic	150.00
3744.1277-01		Savage Garden Services	20,163.10	INV	29/08/2018	67-23/08/18	Litter pick up around the sump on Beard Street	260.00
				INV	29/08/2018	64-24/08/18	General litter collection along streetscapes	6,089.60
				INV	29/08/2018	65-27/08/18	General litter clean up and rubbish collection	3,120.00
				INV	29/08/2018	63-27/08/18	Rural road verge litter collection	9,243.50
				INV	29/08/2018	66-23/08/18	Slash prune back trees and remove all rubbish	750.00
				INV	29/08/2018	68-23/08/18	Maintenance of streetscape garden beds	700.00
3744.1313-01		Daimler Trucks Perth	658.26	INV	27/08/2018	6144030D	Parts	658.26
3744.1366-01		Star Communications	104.00	INV	29/08/2018	D179	Replace faulty wall plate and outlet in kitchen	104.00
3744.1370-01		State Library of Western Australia	5,720.00	INV	28/08/2018	RI020915	Annual fee lost and damaged public library items	5,720.00
3744.1423-01		Telstra	169.60	INV	27/08/2018	1548725500Aug18	Usage to 180818 Alarm Feilman Building	19.25
				INV	27/08/2018	1197198700Aug18	Usage to 161118 Mandogalup Fire Brigade	150.35
3744.1474-01		Toll Transport Pty Ltd	63.05	INV	27/08/2018	1026892	Transport service 150818	63.05
3744.1530-01		Wormald Australia Pty Ltd	993.53	INV	29/08/2018	7787567	Routing inspection and testing	993.53
3744.1592-01		Water Corporation of Western Austra	6,576.83	INV	29/08/2018	9000358329Aug18	3U Girl Guides Hall	4.63
				INV	29/08/2018	9000358310Aug18	87U Medina Hall	974.23
				INV	29/08/2018	9000357641Aug18	27U Orelia Oval	971.55

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	29/08/2018	9000354133Aug18	69U Tucker Street Reserve and Thomas Pavilion	1,614.89
				INV	29/08/2018	9000354002Aug18	9U BMX Track Amenities	111.80
				INV	29/08/2018	9000348470Aug18	210U Depot	941.07
				INV	29/08/2018	9000343469Aug18	0U Old St Johns Ambulance	90.94
				INV	28/08/2018	9000356366Aug18	17U Family Day Care	221.28
				INV	28/08/2018	9000358855Aug18	32U Kwinana Senior Citizen	437.53
				INV	28/08/2018	9000358839Aug18	23U Medina Hall	598.53
				INV	28/08/2018	9000358337Aug18	8U Boy Scouts Hall	18.54
				INV	28/08/2018	9000343688Jun18	2U Day Care Centre	257.85
				INV	28/08/2018	9000343688Aug18	2U Day Care Centre	280.68
				INV	20/08/2018	9018197324aug18	23U Lyon Road Reserve	53.31
3744.1614-01		Westbooks	188.09	INV	28/08/2018	299043	Junior Books for Library	138.97
				INV	28/08/2018	299336	Junior Kindy Books	11.40
				INV	28/08/2018	299044	Junior Kindy Books	37.72
3744.1635-01		WH Locations Services Pty Ltd	1,804.00	INV	28/08/2018	SIN004981	Service Locate Kwinana Beach Road Turn Lane	1,804.00
3744.1649-01		Dennis Cleve Wood	2,905.34	INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
				INV	29/08/2018	MEETINGFEE18/19	Meeting Fees	2,613.67
3744.1689-01		Sandra Elizabeth Lee	2,905.34	INV	29/08/2018	MEETINGFEES18/19	Meeting Fees	2,613.67
				INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
3744.1762-01		Officeworks BusinessDirect	319.20	INV	27/08/2018	39872965	Keyed laptop lock	79.80
				INV	27/08/2018	39960775	Keyed laptop lock	239.40
3744.1825-01		Greenacres Turf Group	2,557.00	INV	29/08/2018	00054010	Supply and delivery of 380m2 Village Green Kikuyu	2,557.00
3744.1937-01		Coles Myer Ltd - Gift Card Accounti	1,214.85	INV	27/08/2018	IN768495	Gift Vouchers	1,214.85
3744.2089-01		Basketball WA	2,450.00	INV	29/08/2018	10789	Streetball competition 131018	2,450.00
3744.2121-01		Suez	282,379.81	INV	29/08/2018	27528884	Waste services July 2018	151,313.83
				INV	29/08/2018	27579593	General Waste pickups	955.46
				INV	29/08/2018	164176	Commercial recycle service July 18	130,110.52
3744.2125-01		Synergy	9,058.90	INV	29/08/2018	201352990Aug18	53U Newstead Park	165.65
				INV	27/08/2018	566370150Aug18	6898U Chipperton Park	2,042.35
				INV	27/08/2018	473346610Aug18	25U Wellard Park Smart Meter	179.75

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	27/08/2018	690941950Aug18	1U Gabor Park	85.95
				INV	27/08/2018	963532150Aug18	0U Town Centre Park	84.00
				INV	28/08/2018	558638440Aug18	0U Challenger and Bertram entry statement	86.90
				INV	28/08/2018	254890650Aug18	13U Malden Park BBQs	88.80
				INV	28/08/2018	846031050Aug18	2253U Street Lights The Strand	717.30
				INV	28/08/2018	704953470Aug18	21U Barney Court	92.70
				INV	28/08/2018	254890320Aug18	3U Rushbrooke Park BBQ	86.50
				INV	28/08/2018	705629830Aug18	12U Bournan Heights Reserve	90.15
				INV	27/08/2018	661366430Aug18	532U Leda Hall	318.65
				INV	27/08/2018	488212530Aug18	18U Chisham Oval	182.30
				INV	27/08/2018	809178030Aug18	14U Sump Warner Road	90.10
				INV	27/08/2018	958312220Aug18	153U Djilba View	149.25
				INV	27/08/2018	166216150Aug18	19U Sloan Reserve Bore Pump 3	90.95
				INV	27/08/2018	521814530Aug18	2238U Wellard Pavilion	609.35
				INV	27/08/2018	882174540Aug18	1260U POS Lighting The Strand	435.35
				INV	27/08/2018	479742820Aug18	1U Bore on Parmelia verge	86.45
				INV	27/08/2018	151027420Aug18	1U Brandon Mews Reserve	86.45
				INV	27/08/2018	786264020Aug18	1527U Bore Sutherland Parade	352.40
				INV	27/08/2018	821437900Aug18	887U POS Near Wellard Village	331.30
				INV	27/08/2018	618835230Aug18	0U Sloan Caretakers Cottage	85.70
				INV	27/08/2018	144348440Aug18	0U Bore Sutherland Parade	86.20
				INV	27/08/2018	228715140Aug18	152U Streetscapes Wellard and Pimlico Gardens	98.75
				INV	27/08/2018	829280210Aug18	1572U Street Lights	480.75
				INV	27/08/2018	126641430Aug18	1463U Lights Tavern Carpark	429.65
				INV	27/08/2018	151880770Aug18	2U Car Park Lighting	182.35
				INV	27/08/2018	824098750Aug18	51U Thomas Road Entry	101.00
				INV	27/08/2018	114826050Aug18	342U Bore Streetscapes Kwinana Beach	238.05
				INV	27/08/2018	200144210Aug18	2681U Sloan's Cottage	813.20
				INV	27/08/2018	546496270Aug18	8U Skottowe Park	90.65
3744.218-01		Bob Jane T-Mart	501.00	INV	27/08/2018	135382	Tyres and repairs	501.00
3744.2224-01		Prestige Catering & Event Hire	950.80	INV	27/08/2018	00022947	Catering 220818	379.20
				INV	28/08/2018	00022946	Catering 220818	571.60
3744.2460-01		Allcom Communications	1,124.20	INV	29/08/2018	27873	Transfer of two way radio between vehicles	1,124.20
3744.2463-01		Battery World	180.00	INV	28/08/2018	IN6080149412	Heavy duty carbon zinc batteries	180.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3744.248-01		Bunnings Building Supplies	1,304.54	INV	29/08/2018	2163/01688084	Downpipes for Casuarina/Wellard Fire Station	67.96
				INV	27/08/2018	2163/01687477	Coat racks for Depot	77.90
				INV	27/08/2018	2163/01286194	Gerber Suspension Multi-tool	182.20
				INV	28/08/2018	21638/01510470	Shelving unit	454.10
				INV	24/08/2018	2163/01509956	Hardware items for gate Family Day Care	57.96
				INV	29/08/2018	2163/01688197	Plaster manhole frame kit and screws	42.24
				INV	29/08/2018	2163/01688347	Vehicle mounted tool chest	331.55
				INV	29/08/2018	2163/01055930	Materials for Adventure Park	38.99
				INV	30/08/2018	2163/01685815	Hardware items for Challenger Beach	51.64
3744.2586-01		Peet Southern JV Pty Ltd	2,611.43	INV	28/08/2018	Overpayment	Invoice 52143 overpaid	49.60
				INV	27/08/2018	Overpayment	Overpayment Invoice 51279	2,561.83
3744.2646-01		Neverfail Springwater	55.25	INV	28/08/2018	369150	Bottled water The Zone	55.25
3744.2807-01		PLE Computers Pty Ltd	79.00	INV	27/08/2018	SI-1325840	Network cables	79.00
3744.2852-01		Downer EDI Works Pty Ltd	827.30	INV	28/08/2018	6005002	1.02 tonne asphalt	128.95
				INV	28/08/2018	6005003	3.04 tonne asphalt	400.30
				INV	29/08/2018	6005080	7MM Gran AC50B 1.56 Tonne	196.01
				INV	29/08/2018	6005079	7MM Gran AC50B 0.76 Tonne	102.04
3744.2904-01		Team Digital	795.00	INV	28/08/2018	43363	Premier Pro Essentials training	795.00
3744.2981-01		Peter Edward Feasey	4,756.67	INV	25/08/2018	DEPMAYFEE18/19	Deputy Mayoral Allowance	1,851.33
				INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
				INV	29/08/2018	MEEETINGFEE18/	Meeting Fees	2,613.67
3744.30-01		Carol Elizabeth Adams	11,617.50	INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
				INV	25/08/2018	MAYALLOW18/19	Mayoral Allowance	7,405.33
				INV	25/08/2018	MEETING18/19	Meeting Fees	3,920.50
3744.3031-01		Specialised Security Shredding	20.24	INV	27/08/2018	00231393	GC Bin exchange	20.24
3744.3155-01		PFD Food Services Pty Ltd	245.60	INV	29/08/2018	KL691053	Cafe splash supplies	245.60
3744.335-01		City of Rockingham	12,585.30	INV	29/08/2018	100747	Tip fees to 200818	12,585.30
3744.3358-01		Homebuyers Centre Pty Ltd	273.77	INV	28/08/2018	BP2018/413	Refund building licence BP2018/413	273.77
3744.339-01		Civica Pty Ltd	56,289.30	INV	28/08/2018	C/LA012215	Spydus Library Management System	47,987.50

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
				INV	27/08/2018	M/LG009725	License Support and Maintenance October 18	8,301.80
3744.342-01		CJD Equipment Pty Ltd	197.62	INV	28/08/2018	1737558	Parts	157.58
				INV	28/08/2018	1734191	Gasket	40.04
3744.3447-01		Chefmaster Australia	1,491.84	INV	28/08/2018	00028347	Drum liner	1,491.84
3744.3452-01		Western Maze Pty Ltd	23,217.42	INV	29/08/2018	00016028	Area 2 Green Waste collection	13,686.66
				INV	29/08/2018	00016027	Area 1 Green Waste collection	9,530.76
3744.347-01		Cleanaway Pty Ltd	73.26	INV	28/08/2018	overpayment	Overpayment of invoice 51268 due to credit note	73.26
3744.357-01		BullAnt Security Pty	1,285.71	INV	24/08/2018	10,175,888	Padlocks	1,285.71
3744.358-01		Coastline Mowers	60.00	INV	24/08/2018	17847#5	Sparing valve	60.00
3744.3596-01		KLMedia Pty Ltd	95.91	INV	28/08/2018	1131790	Music CDs for library collection	95.91
3744.3686-01		KAJ Installations & Services	120.00	INV	29/08/2018	00004783	Repairs to garage door	120.00
3744.3833-01		Norman Jorgensen Bookseller	550.00	INV	29/08/2018	2008KW	Book Week Author Talk August 2018	550.00
3744.3916-01		Kwinana Industries Council	1,202.34	INV	28/08/2018	00011819	Trainee for fortnight ending 030818 and 170818	667.96
				INV	28/08/2018	00011818	Trainee for fortnight ending 030818 and 170818	534.38
3744.3941-01		Prestige Garden Kerbing	484.00	INV	29/08/2018	4065	Supply preparation and lay garden kerbing 150 x100mm	484.00
3744.3977-01		MRP Osborne Park-General Pest/Termi	1,162.50	INV	24/08/2018	75254	Quarterly rodents control William Bertram	217.00
				INV	24/08/2018	75253	6 monthly termite inspection Wandi Hall	264.71
				INV	24/08/2018	75252	Quarterly rodents treatment Recquatic	362.25
				INV	24/08/2018	75251	6 monthly termite inspection Casuarina Fire Station	121.54
				INV	29/08/2018	75289	Quarterly control of pests at Darius Wells	197.00
3744.4007-01		Digitales	770.00	INV	28/08/2018	SINV-12248	Annual subscription for Road to IELTS	770.00
3744.407-01		Winc Australia Pty Ltd	770.15	INV	27/08/2018	9025094146	Card holders	122.65
				INV	29/08/2018	9025095143	Writeraze framed erasable year planner 700 x 1000	85.84
				INV	29/08/2018	9025083495	Roaken mesh back visitor chair in black	561.66
3744.4103-01		Local Government Planners Associati	80.00	INV	28/08/2018	2144	Event Reshaping Our suburbs 050418	80.00
3744.4106-01		Kennards Hire Rockingham - Generato	97.00	INV	29/08/2018	19636372	Hire of Generator 2KVA inverter	97.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3744.413-01		Covs Parts Pty Ltd	1,462.62	INV	28/08/2018	1650080913	Head mirror	60.90
				INV	27/08/2018	1650081303	Sump plug	7.47
				INV	27/08/2018	1650081328	Sump plug washer kit	330.00
				INV	27/08/2018	1650080755	Gloves	125.40
				INV	27/08/2018	1650080778	Gloves	125.40
				INV	27/08/2018	1650080589	Led amber globes	221.56
				INV	27/08/2018	1650080585	Oil flask and measurement pack	56.62
				INV	27/08/2018	1650080579	Cleaning items and ratchet	441.10
				INV	27/08/2018	1650080567	Brake pads	94.17
3744.4265-01		Megan Jane McKinlay	495.00	INV	28/08/2018	W383	Book Week Author Talk 16th August 2018	495.00
3744.434-01		Curtin University	3,950.00	INV	30/08/2018	9533325	Study fees Student ID No:19634346	3,950.00
3744.4382-01		Stonehenge Ceramics	850.00	INV	29/08/2018	C0198	Rake and regrout bathroom of villa	850.00
3744.4719-01		Complete Office Supplies Pty Ltd	369.90	INV	29/08/2018	07680535	Ballpoint pen fine blue	4.91
				INV	29/08/2018	07662282	Recquatic stationery supplies July 2018	364.99
3744.483-01		Landgate	469.04	INV	28/08/2018	853770	Title searches 090518	25.30
				INV	27/08/2018	342116-10001098	GRV Schedule No.G2018/16 280718 to 100818	443.74
3744.4861-01		Big W	70.50	INV	28/08/2018	057745/057746	Items for Darius Wells	70.50
3744.5143-01		Wendy Gaye Cooper	2,905.34	INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
				INV	29/08/2018	MEETINGFEES18/	Meeting Fees	2,613.67
3744.5646-01		Bent Logic	346.50	INV	28/08/2018	00032318	Plastic membership cards	346.50
3744.5750-01		Kev's Wheelie Kleen	396.00	INV	28/08/2018	2332	Bin cleaning 210818 John Wellard Centre	66.00
				INV	28/08/2018	2313	Bin cleaning 150818 William Bertram Centre	99.00
				INV	28/08/2018	2208	Bin cleaning 060818 John Wellard Centre	22.00
				INV	28/08/2018	2155	Bin cleaning 010818 William Bertram Centre	121.00
				INV	29/08/2018	2211	Bin cleaning at Administration Centre	88.00
3744.5758-01		Alcoa of Australia	200.00	RFD	29/08/2018	1324706	Refund bond Hall hire 170818	200.00
3744.5823-01		Accord Security Pty Ltd	3,075.11	INV	28/08/2018	00022790	Security at Darius Wells 060818 to 190818	3,075.11
3744.6018-01		ALSCO Pty Ltd	72.27	INV	27/08/2018	CPER1860339	Linen Hire	72.27
3744.6091-01		Plants & Garden Rentals	220.00	INV	28/08/2018	00012290	Planter hire for September 2018	110.00
				INV	27/08/2018	00012156	Planter hire for August 2018	110.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3744.6224-01		The Grant Finder	647.50	INV	29/08/2018	00126	Facilitation and materials for Boredom Busters	647.50
3744.6267-01		Woolworths Group Limited	829.43	INV	27/08/2018	2992251	Items for Masterchef program	18.20
				INV	27/08/2018	29335413	Assorted sundries for Recquatic Centre	216.60
				INV	27/08/2018	28755111	Tissues for Recquatic Centre	73.00
				INV	28/08/2018	2992258	Gift cards for The Zone	200.00
				INV	28/08/2018	2992263	Food for Drop In Programs	60.45
				INV	28/08/2018	3038260	Consumables for Term 3 programs	101.50
				INV	28/08/2018	2981647	Items for Programs Darius Wells Cafe	49.10
				INV	29/08/2018	29363653	Splash Cafe stock	110.58
3744.6368-01		ATI-Mirage Pty Ltd	200.00	RFD	29/08/2018	1320925	Refund bond Hall hire 060818	200.00
3744.6370-01		Elexacom	8,135.86	INV	29/08/2018	24173	Extra works required at the Adventure Park	461.84
				INV	29/08/2018	24116	Test all emergency and exit lights at Wandri Hall	189.07
				INV	29/08/2018	24149	Repair exhaust fans in the male toilets at Depot	1,127.13
				INV	29/08/2018	24133	Isolate external powerpoints at Pavilion	999.37
				INV	29/08/2018	24124	Test all emergency and exit lights at Darius Wells	236.34
				INV	29/08/2018	24123	Test all emergency and exit lights in changerooms	189.07
				INV	29/08/2018	24122	Testing of all emergency and exit lights at Zone	189.07
				INV	29/08/2018	24121	PAT testing at Bertram Community Centre	219.87
				INV	29/08/2018	24120	Investigate alarm faults at various facilities	449.04
				INV	29/08/2018	24118	Tested power points around basketball courts	155.71
				INV	24/08/2018	24110	Repair circuit breaker Wells Park	141.80
				INV	24/08/2018	24109	Service light fixture Koorliny Art Centre	431.68
				INV	24/08/2018	24106	Service showers Thomas Kelly Pavilion	234.66
				INV	28/08/2018	24150	Call out to isolate power after tree damage	189.07
				INV	28/08/2018	24148	Banksia Park U14 Sensor light	287.49
				INV	28/08/2018	24117	Callistemon Court U17 Exhaust fan	154.86
				INV	28/08/2018	24119	Banksia Park Replace light poles	2,189.00
				INV	24/08/2018	24111	Repair cable and powerpoints Wellard Pavilion	290.79
3744.6583-01		ALS Library Services Pty Ltd	186.25	INV	28/08/2018	00056642	Selected online articles for Library	135.48
				INV	28/08/2018	00056775	Online titles for Library	50.77

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3744.6700-01		Spraying WA Pty Ltd	1,815.00	INV	28/08/2018	00001613	Treatment of weeds	1,815.00
3744.6703-01		Lucor Pty Ltd	446.60	INV	27/08/2018	INV-002840	Catering 200818	446.60
3744.6707-01		Labourforce Impex Personnel Pty Ltd	1,652.65	INV	28/08/2018	142235	Temp staff week ending 190818	1,652.65
3744.6710-01		Shane Anthony Russon	1,700.00	INV	29/08/2018	4.7	Rates Refund	1,700.00
3744.6858-01		South West Corridor Development	18,150.00	INV	27/08/2018	201909	Contribution to the 2018/2019 regional project	16,500.00
				INV	27/08/2018	201910	Coastcare Project Contribution 2018/2019	1,650.00
3744.6860-01		Advance Scanning Services	973.50	INV	24/08/2018	20162671	Mainline relocation	973.50
3744.6973-01		Invision Investigations & Consultin	1,900.00	INV	28/08/2018	060818T	Investigative Review	1,900.00
3744.7042-01		Quantum Building Services	517.00	INV	24/08/2018	00002059	Repair skylight panels Recquatic	517.00
3744.708-01		Kevin Robert Howard	29.90	INV	28/08/2018	23rdAug18	Reimbursement of Drivers Licence	29.90
3744.7158-01		Growers Agrishop	910.00	INV	28/08/2018	129569	Leopard 200EC 20L fertiliser	910.00
3744.718-01		Hunter Hyden Pty Ltd	175.00	INV	24/08/2018	95322	Steel for block door	175.00
3744.7236-01		Wheelers Book Club Ltd	3,000.00	INV	28/08/2018	1712931	1 year subscription to Wheelers ePlatform	3,000.00
3744.7340-01		Echelon Productions	924.00	INV	28/08/2018	EP20335	Book Week Performance	924.00
3744.7388-01		Morris Jacobs	155.00	INV	29/08/2018	18191-28/08/18	Arts facilitation 280818	155.00
3744.7436-01		Action Glass Pty Ltd	209.00	INV	29/08/2018	B17653	Repair front entry door at Darius Wells	209.00
3744.7557-01		Sheila Mills	2,905.34	INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
				INV	29/08/2018	MEETINGFEE18/19	Meeting Fees	2,613.67
3744.762-01		Blackwood & Sons Ltd	457.08	INV	29/08/2018	KW9798QN	Specs prism smoke lens and masks	261.32
				INV	29/08/2018	PE4881QP	Allthread Rod	48.40
				INV	29/08/2018	PE8191QO	Bucket Hats	54.34
				INV	29/08/2018	PE7935QO	Bucket Hats	25.19
				INV	29/08/2018	PE9799QN	Broad Brim Hats	67.83
3744.7625-01		Flex Industries Pty Ltd	2,429.94	INV	28/08/2018	59654	Service KWN2007	580.69
				INV	27/08/2018	59599	Service	1,849.25
3744.7964-01		Rentwest Solutions	501.24	INV	29/08/2018	4.7	Rates Refund	501.24
3744.805-01		Mervyn Thomas Kearney	2,905.34	INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
				INV	29/08/2018	MEETINGFEES18/19	Meeting Fees	2,613.67

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
3744.8281-01		Jack Heremia Ngamoki	44.00	INV	29/08/2018	28thAug2018	Reimbursement of HR drivers licence	44.00
3744.8302-01		Chris Kershaw Photography	440.00	INV	27/08/2018	L2297	Photography for Citizenship Ceremony	440.00
3744.8514-01		Teena Raffa-Mulligan	650.00	INV	28/08/2018	199	Author Talk for Book Week 2018	650.00
3744.8756-01		Ohura Consulting	2,458.50	INV	27/08/2018	433	New Position Descriptions Project	2,458.50
3744.8884-01		Coffee Works	740.96	INV	28/08/2018	2522	Coffee Machine Servicing June 2018	370.48
				INV	28/08/2018	2551	Coffee Machine Servicing July 2018	370.48
3744.8899-01		Majestic Plumbing	3,829.30	INV	24/08/2018	220076	Service changeroom basin Recquatic	184.49
				INV	24/08/2018	220075	Service toilet Recquatic	239.49
				INV	24/08/2018	220073	Service toilet Darius Wells	97.75
				INV	24/08/2018	220072	Service toilet Challenger Beach	239.49
				INV	24/08/2018	220069	Testing of backflow device Fiona Harris Pavilion	440.00
				INV	29/08/2018	220138	Repair ZIP hydro tap at Zone	173.49
				INV	29/08/2018	220137	Supply and install new Hot Water System	2,226.09
				INV	29/08/2018	220145	Removed and installed new kitchen wall spout	125.25
				INV	29/08/2018	220146	Removed and replaced broken handle from basin	103.25
3744.8996-01		Fridgair Industries Pty Ltd	275.00	INV	24/08/2018	30558	Service fridge The Zone	275.00
3744.8998-01		McLeods	176.00	INV	28/08/2018	104334	Annual Audit 2018	176.00
3744.905-01		Local Government Professionals	531.00	INV	28/08/2018	8763	2018 to 2019 Membership subscription	531.00
3744.9070-01		Simon Roger Chant	45.50	INV	29/08/2018	28thAug2018	Reimbursement of MR licence renewal	45.50
3744.907-01		Local Health Authority Analytical	10,604.52	INV	27/08/2018	MA2018070	Analytical Services 2018 to 2019	10,604.52
3744.9237-01		Rebecca McCarthy	100.00	RFD	29/08/2018	1320711	Refund bond Hall hire 020818	100.00
3744.926-01		Main Roads Western Australia	1,179.43	INV	29/08/2018	8008250	Blackspot works	1,179.43
3744.9345-01		Accidental Health & Safety Perth	193.39	INV	28/08/2018	613416	Viraclean disinfectant for Pound	53.85
				INV	28/08/2018	613548	Viraclean disinfectant for Pound	139.54
3744.9384-01		Taylor to Suit	1,086.25	INV	28/08/2018	00000750	Deposit Christmas Styling 2018	1,086.25
3744.9405-01		Matthew James Rowse	2,905.34	INV	29/08/2018	MEETINGFEES18/	Meeting Fees	2,613.67
				INV	25/08/2018	ICTALLOW18/19	ICT Allowance	291.67
3744.9605-01		Kuntal Biswas	138.25	INV	29/08/2018	28thAug2018	Refund cancelled Patio hire 201018	38.25
				RFD	29/08/2018	1325552	Refund bond Patio hire 201018	100.00

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



Chq/Ref	Pmt Date	Payee	Amount	Tran	Date	Invoice	Description	Amount
3744.9858-01		Kompan Playscape	107.80	INV	29/08/2018	SI214369	Parts for playground at Lambeth Park	107.80
3744.9899-01		Creative Minds	970.00	INV	28/08/2018	4	Facilitate Sensory Play Program	210.00
				INV	28/08/2018	5	Craft facilitating Saturday mornings	360.00
				INV	28/08/2018	3-15/08/18	Craft facilitating Wednesday mornings	400.00
3744.9996-01		Oropesa Management Pty Ltd	14,300.00	INV	27/08/2018	00000041	Consultive services Instalment 2	14,300.00
3744.9998-01		Ecostar Consulting	4,136.00	INV	28/08/2018	665	Course Living Smart in Kwinana	4,136.00
3745	29/08/2018	EFT TRANSFER: - 30/08/2018	19,975.90					
3745.151-01		Australian Services Union	547.76	INV	26/08/2018	PY01-05-Aust Ser	Payroll Deduction	233.10
				INV	26/08/2018	PY01-05-Aust Ser	Payroll Deduction	33.76
				INV	12/08/2018	PY01-04-Aust Ser	Payroll Deduction	233.10
				INV	12/08/2018	PY01-04-Aust Ser	Payroll Deduction	47.80
3745.2853-01		Maxxia Pty Ltd	5,124.84	INV	26/08/2018	PY01-05-Maxxia P	Payroll Deduction	2,383.92
				INV	26/08/2018	PY01-05-Maxxia P	Payroll Deduction	2,740.92
3745.3376-01		Health Insurance Fund of WA (HIF)	1,168.40	INV	26/08/2018	PY01-05-Health I	Payroll Deduction	1,168.40
3745.3719-01		City of Kwinana - Xmas fund	7,740.00	INV	26/08/2018	PY01-05-TOK Chri	Payroll Deduction	7,740.00
3745.487-01		Child Support Agency	2,453.74	INV	26/08/2018	PY01-05-Child Su	Payroll Deduction	1,226.87
				INV	12/08/2018	PY01-04-Child Su	Payroll Deduction	1,226.87
3745.530-01		Easifleet	2,021.73	INV	30/08/2018	114291	Novated lease for August 2018	2,021.73
3745.892-01		LGRCEU	919.43	INV	26/08/2018	PY01-05-LGREC U	Payroll Deduction	471.50
				INV	12/08/2018	PY01-04-LGREC U	Payroll Deduction	447.93
3746	30/08/2018	EFT TRANSFER: - 31/08/2018	85,325.96					
3746.565-01		Bright Futures Family Day Care - Pa	85,325.96	INV	30/08/2018	130818 to 260818	FDC Payroll 130818 to 260818	85,325.96
3747	31/08/2018	EFT TRANSFER: - 31/08/2018	197,118.00					
3747.153-01		Australian Taxation Office	197,118.00	INV	26/08/2018	PY01-05-Australi	Payroll Deduction	197,118.00
3748	31/08/2018	EFT TRANSFER: - 31/08/2018	2,019.59					
3748.10458-01		Helen Margaret McNeice	2,019.59	INV	31/08/2018	50.8	Rates Refund	2,019.59
Total EFT			3,875,066.82					

Payroll

PY99-04	10/08/2018	Payroll - Interim	4,745.35
---------	------------	-------------------	----------

Cheque Listing

Payments made between
01/08/2018 to 31/08/2018



<u>Chq/Ref</u>	<u>Pmt Date</u>	<u>Payee</u>	<u>Amount</u>	<u>Tran</u>	<u>Date</u>	<u>Invoice</u>	<u>Description</u>	<u>Amount</u>
PY01-04	12/08/2018	Payroll	615,088.43					
PY01-05	26/08/2018	Payroll	613,332.11					
Total Payroll			1,233,165.89					
Grand Total			-5,203,719.77					

Credit Card Transactions

1/08/2018 to 31/08/2018

Transaction No	Tran Type	Tran Reference	Invoice Date	Actual	Transaction Description
Credit Card Director City Regulation				\$173.35	
4098349	Invoice	020818A	02/08/2018	\$13.22	CPP Parking Leadership WA Aspiring Showcase
4098349	Invoice	020818A	02/08/2018	\$18.35	CPP Parking Department of Planning
4098349	Invoice	020818A	02/08/2018	\$20.71	Taxi Travel to be reimbursed
4098349	Invoice	020818A	02/08/2018	\$24.69	Taxi Travel to be reimbursed
4098349	Invoice	020818A	02/08/2018	\$31.78	Taxi Travel to be reimbursed
4098349	Invoice	020818A	02/08/2018	\$48.84	Taxi Travel to be reimbursed
4098349	GST	020818A	02/08/2018	\$15.76	GST
Credit Card Manager Human Resources				\$3,743.70	
4098352	Invoice	020818B	02/08/2018	\$73.00	Attendance Book Week Opening
4098352	Invoice	020818B	02/08/2018	\$78.44	The Future of Street Lighting in WA
4098352	Invoice	020818B	02/08/2018	\$92.83	LIAWA Symposium
4098352	Invoice	020818B	02/08/2018	\$92.83	LIAWA Symposium
4098352	Invoice	020818B	02/08/2018	\$316.36	Subscription Survey Monkey
4098352	Invoice	020818B	02/08/2018	\$600.00	Registered Post Pre Paid Labels
4098352	Invoice	020818B	02/08/2018	\$1,010.82	Service Award Gift Voucher
4098352	Invoice	020818B	02/08/2018	\$1,230.00	Irrigation Efficiency Workshop
4098352	GST	020818B	02/08/2018	\$249.42	GST
Credit Card Chief Executive Officer				\$8.18	
4098355	Invoice	020818C	02/08/2018	\$7.44	Parking City of Perth
4098355	GST	020818C	02/08/2018	\$0.74	GST
Credit Card Functions Officer				\$233.64	
4098387	Invoice	020818D	02/08/2018	\$11.81	Sports Award Dinner easel for table plan
4098387	Invoice	020818D	02/08/2018	\$18.18	Catering Ordinary Council Meeting
4098387	Invoice	020818D	02/08/2018	\$31.09	Photos for Citizenship Ceremony
4098387	Invoice	020818D	02/08/2018	\$31.95	Sports Award Dinner consumables
4098387	Invoice	020818D	02/08/2018	\$119.36	Candles due to powercut
4098387	GST	020818D	02/08/2018	\$21.25	GST
Credit Card Director City Strategy				\$3,600.33	

Credit Card Transactions

1/08/2018 to 31/08/2018

Transaction No	Tran Type	Tran Reference	Invoice Date	Actual	Transaction Description
4098407	Invoice	020818E	02/08/2018	\$-1.85	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$0.67	International transaction fee
4098407	Invoice	020818E	02/08/2018	\$0.81	International transaction fee
4098407	Invoice	020818E	02/08/2018	\$1.19	International transaction fee
4098407	Invoice	020818E	02/08/2018	\$5.83	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$7.18	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$10.09	Train ticket to Department of Local Government
4098407	Invoice	020818E	02/08/2018	\$18.14	International transaction fee
4098407	Invoice	020818E	02/08/2018	\$18.18	Smartrider top up
4098407	Invoice	020818E	02/08/2018	\$22.58	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$26.99	Zapier licence
4098407	Invoice	020818E	02/08/2018	\$27.89	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$32.20	Sprout Social social media management
4098407	Invoice	020818E	02/08/2018	\$36.63	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$38.04	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$42.82	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$47.45	Subscription Advanced Form Module Youth Program
4098407	Invoice	020818E	02/08/2018	\$51.82	2018 Sport and Recreation Industry Awards
4098407	Invoice	020818E	02/08/2018	\$148.15	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$165.00	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$175.85	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$327.87	Mailchimp email marketing software
4098407	Invoice	020818E	02/08/2018	\$340.46	Google AdWords
4098407	Invoice	020818E	02/08/2018	\$579.99	Renewal primary wildcard SSL certificate
4098407	Invoice	020818E	02/08/2018	\$650.83	Facebook advertising
4098407	Invoice	020818E	02/08/2018	\$725.46	Sprout Social social media management
4098407	GST	020818E	02/08/2018	\$100.06	GST
Credit Card Director City Engagement				\$1,322.33	
4098416	Invoice	020818f	02/08/2018	\$4.36	Refreshments Awards interview panel
4098416	Invoice	020818f	02/08/2018	\$4.36	Refreshments Awards interview panel

Credit Card Transactions

1/08/2018 to 31/08/2018

Transaction No	Tran Type	Tran Reference	Invoice Date	Actual	Transaction Description
4098416	Invoice	020818f	02/08/2018	\$6.89	Facebook advertising youth
4098416	Invoice	020818f	02/08/2018	\$40.91	Scanning of historical painting from art
4098416	Invoice	020818f	02/08/2018	\$45.45	Donation on behalf of Lyrik winner
4098416	Invoice	020818f	02/08/2018	\$48.09	Refreshments Awards interview panel
4098416	Invoice	020818f	02/08/2018	\$90.90	Jersey for Sports Awards
4098416	Invoice	020818f	02/08/2018	\$218.51	Facebook advertising youth
4098416	Invoice	020818f	02/08/2018	\$227.27	Tickets Kwinana Youth Advisory Council conference
4098416	Invoice	020818f	02/08/2018	\$272.73	3 x \$100 Coles Gift Cards for Sports Awards
4098416	Invoice	020818f	02/08/2018	\$289.44	Facebook advertising youth
4098416	GST	020818f	02/08/2018	\$73.42	GST

Grand Total:	\$9,081.53
---------------------	-------------------

16.3 Budget Variations

DECLARATION OF INTEREST:

There were no declarations of interest declared.

SUMMARY:

To amend the 2018/2019 budget to reflect various adjustments to the General Ledger with nil effect to the overall budget as detailed below. Due to the nature of these variations, they fall outside the annual budget review.

OFFICER RECOMMENDATION:

That Council approves the required budget variations to the Adopted Budget for 2018/2019 as outlined in the report.

NOTE: AN ABSOLUTE MAJORITY OF COUNCIL IS REQUIRED

DISCUSSION:

ITEM #	DESCRIPTION	CURRENT BUDGET	INCREASE/ DECREASE	REVISED BUDGET
1	Capital Expense – Buildings – Library air conditioning motor replacement	Nil	(31,000)	(31,000)
	Capital Expense – Buildings – Building contingency	(70,273)	31,000	(37,273)

Funds are required for the replacement of nine reverse cycle air conditioner unit motors at the Library including the installation of manholes to enable servicing of units. It is proposed that the funds for the project are transferred from the capital contingency budget allocation under Building Construction.

LEGAL/POLICY IMPLICATIONS:

The *Local Government Act 1995* Part 6 Division 4 s 6.8 (1) requires the local government not to incur expenditure from its municipal fund for an additional purpose except where the expenditure-

(b) is authorised in advance by resolution*

“additional purpose” means a purpose for which no expenditure estimate is included in the local government’s annual budget.

*requires an absolute majority of Council.

FINANCIAL/BUDGET IMPLICATIONS:

The financial implications are detailed in this report.

16.3 BUDGET VARIATIONS**ASSET MANAGEMENT IMPLICATIONS:**

The allocation of funds towards the upgrading and renewal of existing City assets in the capital expenditure items is in line with the Asset Management Strategy and will reduce the current asset management gap.

ENVIRONMENTAL IMPLICATIONS:

No environmental implications have been identified as a result of this report or recommendation.

STRATEGIC/SOCIAL IMPLICATIONS:

This proposal will support the achievement of the following outcome and objective detailed in the Corporate Business Plan.

Plan	Outcome	Objective
Corporate Business Plan	Business Performance	5.4 Ensure the financial sustainability of the City of Kwinana into the future

COMMUNITY ENGAGEMENT:

There are no community engagement implications as a result of this report

RISK IMPLICATIONS:

The risk implications in relation to this proposal are as follows:

Risk Event	The City does not manage its finances adequately and allows budget expenditure to exceed allocation and the City then finds itself unable to fund its services that have been approved through the budget process
Risk Theme	Failure to fulfil statutory regulations or compliance Providing inaccurate advice/information
Risk Effect/Impact	Financial Reputation Compliance
Risk Assessment Context	Operational
Consequence	Minor
Likelihood	Rare
Rating (before treatment)	Low
Risk Treatment in place	Reduce (mitigate risk)
Response to risk treatment required/in place	Submit budget variation requests to Council as they arise, identifying financial implications and ensuring there is nil effect on the budget adopted
Rating (after treatment)	Low

16.3 BUDGET VARIATIONS

COUNCIL DECISION

286

MOVED CR S LEE

SECONDED CR S MILLS

That Council approves the required budget variations to the Adopted Budget for 2018/2019 as outlined in the report.

CARRIED BY AN ABSOLUTE MAJORITY OF COUNCIL
8/0

16.4 Monthly Financial Report July 2018

DECLARATION OF INTEREST:

There were no declarations of interest declared.

SUMMARY:

The Monthly Financial Report, which includes the Monthly Statement of Financial Activity and explanation of material variances, for the period ended 31 July 2018 has been prepared for Council acceptance.

OFFICER RECOMMENDATION:

That Council:

1. Accepts the Monthly Statements of Financial Activity for the period ended 31 July 2018, contained within Attachment A; and
2. Accepts the explanations for material variances for the period ended 31 July 2018, contained within Attachment A.

DISCUSSION:

The purpose of this report is to provide a monthly financial report, which includes rating, investment, reserve, debtor, and general financial information to Elected Members in accordance with Section 6.4 of the *Local Government Act 1995*.

The period of review is July 2018. The municipal surplus for this period is \$42,736,034 compared to a budget position of \$40,914,386. This is considered a satisfactory result for the City, as the City is maintaining a healthy budget surplus position.

Income for the July 2018 period, year to date is \$45,203,003. This is made up of \$44,113,448 in operating revenues and \$1,089,555 in non-operating grants, contributions and subsidies received. The budget estimated \$43,864,769 would be received for the same period. The variance to budget is \$1,338,234. Details of all significant variances are provided in the notes to the Monthly Financial Report contained within Attachment A.

Expenditure for the July 2018 period year to date is \$3,973,417. This is made up of \$3,786,555 in operating expenditure, and \$186,862 in capital expenditure. The budget estimated \$5,466,854 would be spent for the same period. The variance to budget is \$1,493,437. Details of all significant variances are provided in the notes to the Monthly Financial Report contained within Attachment A.

LEGAL/POLICY IMPLICATIONS:

Section 6.4 of the *Local Government Act 1995* requires a local government to prepare an annual financial statement for the preceding year and other financial reports as are prescribed.

16.4 MONTHLY FINANCIAL REPORT JULY 2018

Regulation 34 (1) of the *Local Government (Financial Management) Regulations 1996* as amended requires the local government to prepare monthly financial statements and report on actual performance against what was set out in the annual budget.

FINANCIAL/BUDGET IMPLICATIONS:

There are no financial implications relating to the preparation of the report. Any material variances that have an impact on the outcome of the budgeted closing surplus position are detailed in the Monthly Financial Report contained within Attachment A.

ASSET MANAGEMENT IMPLICATIONS:

There are no asset management implications associated with this report.

ENVIRONMENTAL IMPLICATIONS:

There are no environmental implications associated with this report.

STRATEGIC/SOCIAL IMPLICATIONS:

This proposal will support the achievement of the following outcome and objective detailed in the Corporate Business Plan.

Plan	Outcome	Objective
Corporate Business Plan	Business Performance	5.4 Ensure the financial sustainability of the City of Kwinana into the future

COMMUNITY ENGAGEMENT:

There are no community engagement implications as a result of this report.

RISK IMPLICATIONS:

The risk implications in relation to this proposal are as follows:

Risk Event	Inadequate management of the City's provisions, revenues and expenditures.
Risk Theme	Failure to fulfil statutory regulations or compliance Providing inaccurate advice/information
Risk Effect/Impact	Financial Reputation Compliance
Risk Assessment Context	Operational
Consequence	Minor
Likelihood	Unlikely

16.4 MONTHLY FINANCIAL REPORT JULY 2018

Rating (before treatment)	Low
Risk Treatment in place	Reduce (mitigate the risk)
Response to risk treatment required/in place	Annual adoption of variance tolerances for reporting purposes.
Rating (after treatment)	Low

COUNCIL DECISION

287

MOVED CR M ROWSE**SECONDED CR P FEASEY****That Council:**

- 1. Accepts the Monthly Statements of Financial Activity for the period ended 31 July 2018, contained within Attachment A; and**
- 2. Accepts the explanations for material variances for the period ended 31 July 2018, contained within Attachment A.**

**CARRIED
8/0**

A photograph of a park scene. In the foreground, a small stream flows over a bed of large, dark, mossy rocks. The water is clear and reflects the surrounding greenery. To the right of the stream, a paved path curves through a wooded area with many trees, some with thick trunks. The ground is covered with fallen leaves and mulch. In the background, a grassy area and more trees are visible under a bright sky with sunlight filtering through the leaves.

Monthly Financial Report

CITY OF KWINANA

MONTHLY FINANCIAL REPORT (Containing the Statement of Financial Activity) For the Period Ended 31 July 2018

LOCAL GOVERNMENT ACT 1995 LOCAL GOVERNMENT (FINANCIAL MANAGEMENT) REGULATIONS 1996

TABLE OF CONTENTS

Statement of Financial Activity by Program	3
Statement of Financial Activity by Nature or Type	4
Statement of Capital Acquisitions and Capital Funding	5
Note 1 Explanation of Material Variances	6 - 7
Note 2 Net Current Funding Position	8
Note 3 Cash and Investments	9 - 10
Note 4 Budget Amendments	11
Note 5(a) Receivables - Rates	12
Note 5(b) Receivables - General	13
Note 6 Cash Backed Reserves	14
Note 7 Capital Disposals	15
Note 8 Rating Information	16
Note 9 Information on Borrowings	17
Note 10 Trust	18
Note 11 Details of Capital Acquisitions	19 - 23
Note 12 Grants, Subsidies & Contributions	24 - 25

CITY OF KWINANA
STATEMENT OF FINANCIAL ACTIVITY
(Statutory Reporting Program)
For the Period Ended 31 July 2018

	Note	Adopted Annual Budget	Current Annual Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)	Var. % (b)-(a)/(a)
		\$	\$	\$	\$	\$	%
Opening Funding Surplus(Deficit)	2	1,345,947	1,345,947	1,345,947	789,876	(556,071)	(41%)
Revenue from operating activities							
Governance		35,760	35,760	267	28,939	28,672	10739%
General Purpose Funding - Rates	8	38,101,480	38,101,480	37,660,083	37,608,317	(51,766)	(0%)
General Purpose Funding - Other		4,477,650	4,477,650	42,214	282,505	240,291	569%
Law, Order and Public Safety		330,500	330,500	45,625	26,461	(19,164)	(42%)
Health		153,066	153,066	1,917	5,773	3,856	201%
Education and Welfare		7,168,961	7,168,961	643,629	586,962	(56,667)	(9%)
Community Amenities		5,534,442	5,534,442	4,942,367	5,022,516	80,149	2%
Recreation and Culture		2,999,818	2,999,818	243,729	338,231	94,502	39%
Transport		179,611	179,611	0	0	0	0%
Economic Services		1,280,762	1,280,762	170,645	173,817	3,172	2%
Other Property and Services		1,364,646	1,364,646	114,293	39,926	(74,367)	(65%)
		61,626,696	61,626,696	43,864,769	44,113,448	248,679	1%
Expenditure from operating activities							
Governance		(2,596,800)	(2,596,800)	(205,718)	(303,455)	(97,737)	(48%)
General Purpose Funding		(790,130)	(790,130)	(51,953)	(45,722)	6,231	12%
Law, Order and Public Safety		(3,369,960)	(3,369,960)	(269,541)	(273,584)	(4,043)	(1%)
Health		(950,887)	(950,887)	(72,603)	(70,667)	1,936	3%
Education and Welfare		(11,379,613)	(11,379,613)	(963,546)	(742,961)	220,585	23%
Community Amenities		(10,248,550)	(10,248,550)	(403,427)	(410,840)	(7,413)	(2%)
Recreation and Culture		(22,098,138)	(22,098,138)	(1,641,496)	(1,101,427)	540,069	33%
Transport		(15,431,921)	(15,431,921)	(1,304,373)	(368,385)	935,988	72%
Economic Services		(1,861,358)	(1,861,358)	(155,845)	(123,204)	32,641	21%
Other Property and Services		(3,942,836)	(3,942,836)	(398,352)	(346,310)	52,042	13%
		(72,670,193)	(72,670,193)	(5,466,854)	(3,786,555)	1,680,299	31%
Operating activities excluded from budget							
Add back Depreciation		13,672,393	13,672,393	1,139,371	0	(1,139,371)	(100%)
Adjust (Profit)/Loss on Asset Disposal	7	189,040	189,040	0	0	0	
Amount attributable to operating activities		2,817,936	2,817,936	39,537,286	40,326,894	789,608	2%
Investing Activities							
Non-operating Grants, Subsidies and Contributions		4,285,605	4,285,605	0	1,089,555	1,089,555	100%
Proceeds from Disposal of Assets	7	423,500	423,500	0	0	0	0%
Land and Buildings	11	(4,937,050)	(4,937,050)	0	(120,973)	(120,973)	100%
Plant, Furniture and Equipment	11	(2,458,200)	(2,458,200)	0	(40,319)	(40,319)	100%
Infrastructure Assets - Roads	11	(3,000,084)	(3,000,084)	0	0	0	0%
Infrastructure Assets - Parks and Reserves	11	(1,869,669)	(1,869,669)	0	(24,821)	(24,821)	100%
Infrastructure Assets - Footpaths	11	(193,560)	(193,560)	0	(710)	(710)	100%
Infrastructure Assets - Drainage	11	(2,339,323)	(2,339,323)	0	0	0	0%
Infrastructure Assets - Street Lighting	11	(394,272)	(394,272)	0	0	0	0%
Infrastructure Assets - Bus Shelters	11	(20,000)	(20,000)	0	0	0	0%
Infrastructure Assets - Car Parks	11	0	0	0	(39)	(39)	100%
Amount attributable to investing activities		(10,503,053)	(10,503,053)	0	902,693	902,693	100%
Financing Activities							
Proceeds from New Debentures	9	2,268,000	2,268,000	0	0	0	0%
Self-Supporting Loan Principal		16,168	16,168	1,347	2,673	1,326	98%
Transfer from Reserves	6	9,499,275	9,499,275	29,806	885,044	855,238	2869%
Repayment of Debentures	9	(777,133)	(777,133)	0	0	0	0%
Transfer to Reserves	6	(4,667,140)	(4,667,140)	0	(171,144)	(171,144)	100%
Amount attributable to financing activities		6,339,170	6,339,170	31,153	716,572	685,419	2200%
Closing Funding Surplus(Deficit)	2	0	0	40,914,386	42,736,034	1,821,648	4%

This statement is to be read in conjunction with the accompanying Financial Statements and notes. All material variances are discussed in Note 1.
Where year to date budget = 0, 100% variance is assumed.

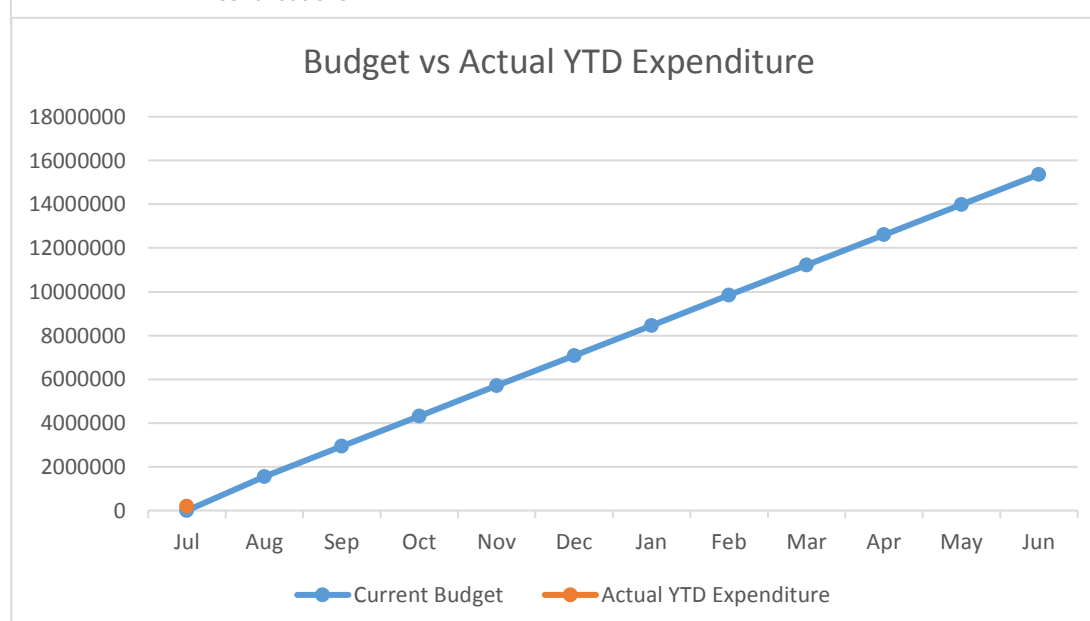
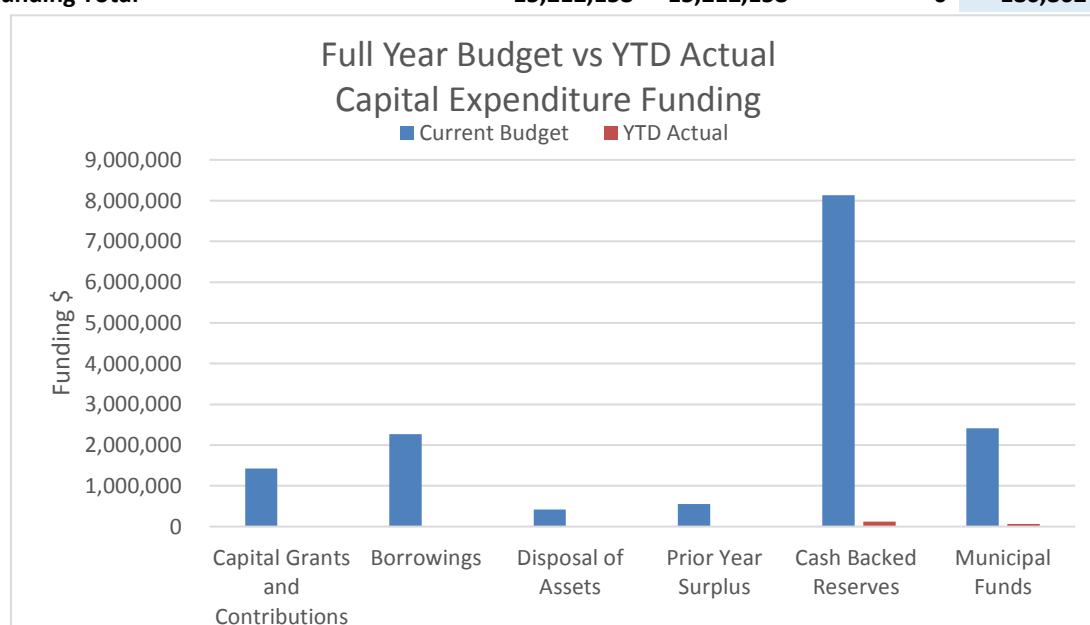
CITY OF KWINANA
STATEMENT OF FINANCIAL ACTIVITY
(By Nature or Type)
For the Period Ended 31 July 2018

	Note	Adopted Annual Budget	Current Annual Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)	Var. % (b)-(a)/(a)
		\$	\$	\$	\$	\$	%
Opening Funding Surplus (Deficit)	2	1,345,947	1,345,947	1,345,947	789,876	(556,071)	(41%)
Revenue from operating activities							
Rates	8	38,101,480	38,101,480	37,660,083	37,608,317	(51,766)	(0%)
Operating Grants, Subsidies and Contributions		7,639,227	7,639,227	524,774	458,940	(65,834)	(13%)
Fees and Charges		11,694,484	11,694,484	5,525,915	5,687,669	161,754	3%
Interest Earnings		2,690,500	2,690,500	37,917	262,181	224,264	591%
Other Revenue		1,489,873	1,489,873	116,080	96,341	(19,739)	(17%)
Profit on Disposal of Assets	7	11,132	11,132	0	0	0	
		61,626,696	61,626,696	43,864,769	44,113,448	248,679	1%
Expenditure from operating activities							
Employee Costs		(28,625,503)	(28,625,503)	(2,256,574)	(2,228,946)	27,628	1%
Materials and Contracts		(26,006,185)	(26,006,185)	(1,541,410)	(975,882)	565,528	37%
Utility Charges		(2,361,417)	(2,361,417)	(144,516)	(176,260)	(31,744)	(22%)
Depreciation on Non-Current Assets		(13,672,393)	(13,672,393)	(1,139,371)	0	1,139,371	100%
Interest Expenses		(1,111,762)	(1,111,762)	0	0	0	0%
Insurance Expenses		(570,108)	(570,108)	(379,566)	(403,707)	(24,141)	(6%)
Other Expenditure		(122,653)	(122,653)	(5,417)	(1,760)	3,657	68%
Loss on Disposal of Assets	7	(200,172)	(200,172)	0	0	0	0%
		(72,670,193)	(72,670,193)	(5,466,854)	(3,786,555)	1,680,299	31%
Operating activities excluded from budget							
Add back Depreciation		13,672,393	13,672,393	1,139,371	0	(1,139,371)	(100%)
Adjust (Profit)/Loss on Asset Disposal	7	189,040	189,040	0	0	0	
Amount attributable to operating activities		2,817,936	2,817,936	39,537,286	40,326,894	789,608	2%
Investing activities							
Grants, Subsidies and Contributions		4,285,605	4,285,605	0	1,089,555	1,089,555	100%
Proceeds from Disposal of Assets	7	423,500	423,500	0	0	0	0%
Land and Buildings	11	(4,937,050)	(4,937,050)	0	(120,973)	(120,973)	100%
Plant, Furniture and Equipment	11	(2,458,200)	(2,458,200)	0	(40,319)	(40,319)	100%
Infrastructure Assets - Roads	11	(3,000,084)	(3,000,084)	0	0	0	0%
Infrastructure Assets - Parks and Reserves	11	(1,869,669)	(1,869,669)	0	(24,821)	(24,821)	100%
Infrastructure Assets - Footpaths	11	(193,560)	(193,560)	0	(710)	(710)	100%
Infrastructure Assets - Drainage	11	(2,339,323)	(2,339,323)	0	0	0	0%
Infrastructure Assets - Street Lighting	11	(394,272)	(394,272)	0	0	0	0%
Infrastructure Assets - Bus Shelters	11	(20,000)	(20,000)	0	0	0	0%
Infrastructure Assets - Car Parks	11	0	0	0	(39)	(39)	100%
Amount attributable to investing activities		(10,503,053)	(10,503,053)	0	902,693	902,693	
Financing Activities							
Proceeds from New Debentures	9	2,268,000	2,268,000	0	0	0	
Self-Supporting Loan Principal		16,168	16,168	1,347	2,673	1,326	98%
Transfer from Reserves	6	9,499,275	9,499,275	29,806	885,044	855,238	2869%
Repayment of Debentures	9	(777,133)	(777,133)	0	0	0	
Transfer to Reserves	6	(4,667,140)	(4,667,140)	0	(171,144)	(171,144)	100%
Amount attributable to financing activities		6,339,170	6,339,170	31,153	716,572	685,419	2200%
Closing Funding Surplus (Deficit)	2	0	0	40,914,386	42,736,034	1,821,648	4%

This statement is to be read in conjunction with the accompanying Financial Statements and notes. All material variances are discussed in Note 1.
Where year to date budget = 0, 100% variance is assumed.

CITY OF KWINANA
STATEMENT OF CAPITAL ACQUISITIONS AND CAPITAL FUNDING
For the Period Ended 31 July 2018

Capital Acquisitions	Note	Adopted Annual Budget	Current Annual Budget	YTD Budget (a)	YTD Actual Total (b)	Variance (a) - (b)
		\$	\$	\$	\$	\$
Land and Buildings	11	4,937,050	4,937,050	0	120,973	(120,973)
Plant, Furniture and Equipment	11	2,458,200	2,458,200	0	40,319	(40,319)
Infrastructure Assets - Roads	11	3,000,084	3,000,084	0	0	0
Infrastructure Assets - Parks and Reserves	11	1,869,669	1,869,669	0	24,821	(24,821)
Infrastructure Assets - Footpaths	11	193,560	193,560	0	710	(710)
Infrastructure Assets - Drainage	11	2,339,323	2,339,323	0	0	0
Infrastructure Assets - Street Lighting	11	394,272	394,272	0	0	0
Infrastructure Assets - Bus Shelters	11	20,000	20,000	0	0	0
Infrastructure Assets - Car Parks	11	0	0	0	39	(39)
Capital Expenditure Totals		15,212,158	15,212,158	0	186,862	(186,862)
Capital acquisitions funded by:						
Capital Grants and Contributions		1,423,989	1,423,989	0	0	0
Borrowings		2,268,000	2,268,000	0	0	0
Disposal of Assets		423,500	423,500	0	0	0
Prior Year Surplus		550,934	550,934	0	0	0
Cash Backed Reserves		8,133,427	8,133,427	0	121,683	(121,683)
Municipal Funds		2,412,308	2,412,308	0	65,179	(65,179)
Capital Funding Total		15,212,158	15,212,158	0	186,862	(186,862)



CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 1: Explanation of Operating Revenue and Expenditure Material Variances by Nature and Type

The material variance thresholds are adopted annually by Council as an indicator of whether the actual expenditure or revenue varies from the year to date budget materially.

The material variance adopted by Council for the 2018/19 year is the greater of \$50,000 or 5%.

Nature and Type Category	Var. \$	Var. %	Var.	Timing/ Permanent	Explanation of Variance
Operating Revenues					
Rates	(51,766)	(0%)		No Material Variance	
Operating Grants, Subsidies and Contributions	(65,834)	(13%)	M	No Material Variance	First instalment of FESA grant (\$41k) was budgeted to be received in July, but was actually received in June 2018.
Fees and Charges	161,754	3%		No Material Variance	
Interest Earnings	224,264	591%	M	Timing	Timing variance as budget has been spread evenly over the 12 months. Investments matured in July to ensure adequate cashflow before the receipt of annual rates.
Other Revenue	(19,739)	(17%)		No Material Variance	
Profit on Disposal of Assets	0			No Material Variance	
Operating Expense					
Employee Costs	27,628	1%		No Material Variance	
Materials and Contracts	565,528	37%	M	Timing	Costs have been budgeted to be spent over 12 months. Each month, a number of invoices are not received until after period end processing has finished, resulting in the expenditure reported in these statements not reflecting the actual cost in the month the expense was incurred. City officers are looking at ways to improve reporting and ensure that these costs are captured in line with when the works are completed.
Utility Charges	(31,744)	(22%)		No Material Variance	
Depreciation on Non-Current Assets	1,139,371	100%	M	Timing	Timing variance as depreciation will be calculated after the annual financial report has been audited.
Interest Expenses	0	0%		No Material Variance	
Insurance Expenses	(24,141)	(6%)		No Material Variance	
Other Expenditure	3,657	68%		No Material Variance	
Loss on Disposal of Assets	0	0%		No Material Variance	

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 1: Explanation of Operating Revenue and Expenditure Material Variances by Nature and Type

The material variance thresholds are adopted annually by Council as an indicator of whether the actual expenditure or revenue varies from the year to date budget materially.

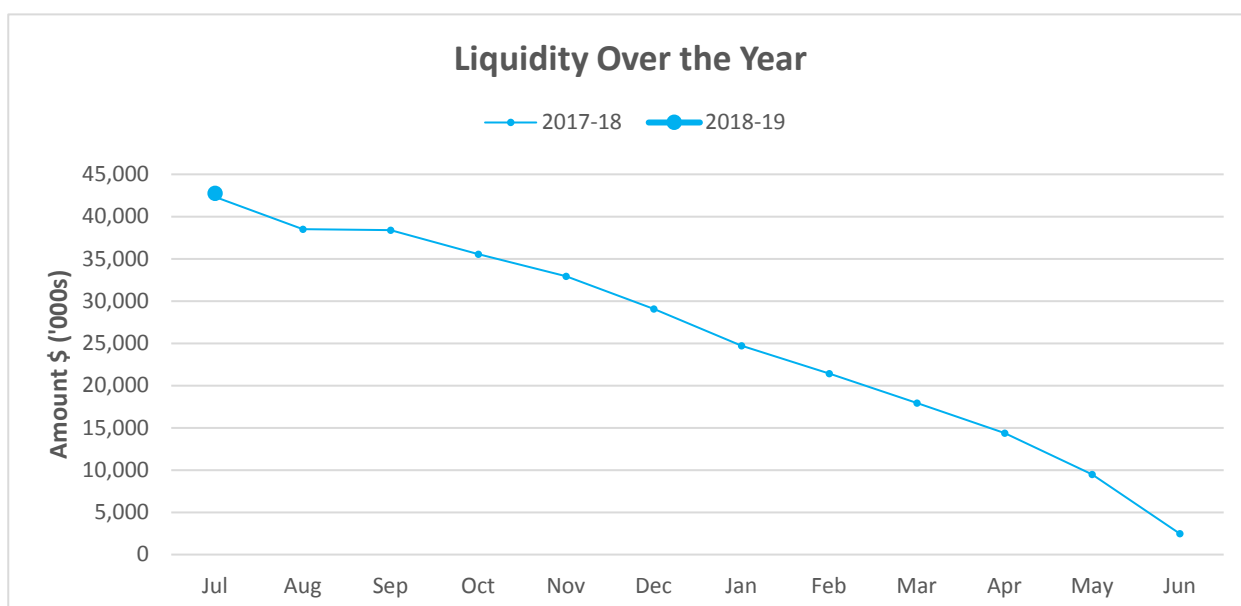
The material variance adopted by Council for the 2018/19 year is the greater of \$50,000 or 5%.

Nature and Type Category	Var. \$	Var. %	Var.	Timing/ Permanent	Explanation of Variance
Capital Revenues					
Grants, Subsidies and Contributions	(1,139,371)	(100%)	M	Timing	Developer Contributions were budgeted to be received later in the year, but the City received \$1.9m in July. Timing of contributions is difficult to estimate due to the unknown timing of subdivisions.
Proceeds from Disposal of Assets	0			No Material Variance	
Capital Expenses					
Land and Buildings	(120,973)	100%	M	Timing	No capital expenditure was forecast for July.
Plant, Furniture & Equipment	(40,319)	100%		No Material Variance	
Infrastructure - Roads	0	0%		No Material Variance	
Infrastructure Assets - Parks and Reserves	(24,821)	100%		No Material Variance	
Infrastructure Assets - Footpaths	(710)	100%		No Material Variance	
Infrastructure Assets - Drainage	0	0%		No Material Variance	
Infrastructure Assets - Street Lighting	0	0%		No Material Variance	
Infrastructure Assets - Bus Shelters	0	0%		No Material Variance	
Infrastructure Assets - Car Parks	(39)	100%		No Material Variance	
Financing					
Proceeds from New Debentures	0	0%		No Material Variance	
Proceeds from Advances	0	0%		No Material Variance	
Self-Supporting Loan Principal	1,326	98%		No Material Variance	
Transfer from Reserves	855,238	2869%	M	Timing	Transfer early payment of General Purpose Grant from Reserve to Municipal funds.
Advances to Community Groups	0	0%		No Material Variance	
Repayment of Debentures	0	0%		No Material Variance	
Transfer to Reserves	(171,144)	100%	M	Timing	Reserve investments matured in July resulting in interest income transferred to Reserve.

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 2: Net Current Funding Position

		Last Years Closing	This Time Last Year	Current
	Note	30 June 2018	31 Jul 2017	31 Jul 2018
		\$	\$	\$
Current Assets				
Cash Unrestricted	3	2,898,927	1,716,659	(635,613)
Cash Restricted - Reserves	6	52,923,040	50,556,593	51,097,256
Receivables - Rates	5(a)	3,435,755	43,898,931	49,318,947
Receivables - Sundry Debtors	5(b)	963,964	1,323,059	1,661,271
Other Current Assets		411,656	0	277,558
Inventories		34,180	35,362	31,861
		60,667,522	97,530,604	101,751,280
Less: Current Liabilities				
Payables		(6,954,606)	(4,648,077)	(7,917,989)
		(6,954,606)	(4,648,077)	(7,917,989)
Less: Cash Reserves	6	(52,923,040)	(50,556,593)	(51,097,256)
Net Current Funding Position - Surplus/(Deficit)		789,876	42,325,934	42,736,034



CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 3(a): Cash and Investments

	Total Amount	Interest Rate	Calculated Interest Earnings	Institution	S&P Rating	Deposit Date	Maturity Date	Term Days
	\$	%	\$					
CBA Municipal Bank Account	2,686,146	Variable	N/A	CBA	AA	N/A	N/A	N/A
CBA Trust Bank Account	2,222,893	Variable	N/A	CBA	AA	N/A	N/A	N/A
Cash On Hand - Petty Cash	4,650	N/A	N/A	PC	N/A	N/A	N/A	N/A
Sub-total Cash Deposits	4,913,689		-					
Cash at Call - Investments								
ANZ Call	992	Variable	N/A	ANZ	AA	N/A	N/A	N/A
Sub-total Cash at Call Investments	992		-					
Term Deposits - Investments								
CBA - TD35732709 (3)	1,000,000	2.53%	25,231	CBA	AA	8/08/2017	7/08/2018	364
Sub-total - Term Deposits - Investments	1,000,000		25,231					
Reserve Funds Investments (Cash Backed Reserves)								
Aged Persons Units Reserve - TD36-866-8236	620,906	2.63%	4,116	NAB	AA	1/05/2018	1/08/2018	92
Asset Management Reserve - TD36-842-8945	584,686	2.63%	3,876	NAB	AA	1/05/2018	1/08/2018	92
Asset Replacement Reserve - TD42-972-1062	965,207	2.60%	6,325	NAB	AA	7/05/2018	7/08/2018	92
Banksia Park DMF Reserve - TD42-997-1790	74,536	2.60%	490	NAB	AA	7/05/2018	7/08/2018	92
Community Services & Emergency Relief Reserve - TD43-069-3230	84,017	2.60%	551	NAB	AA	7/05/2018	7/08/2018	92
CLAG Reserve - TD43-083-2341	261,550	2.60%	1,714	NAB	AA	7/05/2018	7/08/2018	92
Workers Compensation Reserve - TD69-136-9789	258,227	2.60%	1,702	NAB	AA	9/05/2018	9/08/2018	92
Settlement Agreement Reserve - TD68-951-1678	160,000	2.60%	1,049	NAB	AA	9/05/2018	9/08/2018	92
Infrastructure Reserve - TD68-832-2429	339,969	2.60%	2,228	NAB	AA	9/05/2018	9/08/2018	92
Golf Course Cottage Reserve - TD68-730-8350	28,033	2.60%	184	NAB	AA	9/05/2018	9/08/2018	92
Future Community Infrastructure Reserve - TD88-185-4822	1,604,541	2.60%	10,516	NAB	AA	15/05/2018	15/08/2018	92
Family Day Care Reserve - TD88-195-0531	1,443,580	2.60%	9,460	NAB	AA	15/05/2018	15/08/2018	92
Employee Leave Reserve - TD10552318	2,073,973	2.05%	3,611	NAB	AA	27/07/2018	27/08/2018	31
Refuse Reserve - TD80-618-4101	2,185,770	2.60%	14,324	NAB	AA	8/05/2018	8/08/2018	92
Refuse Reserve - TD4711334	4,353,899	2.65%	28,449	BWA	AA	4/05/2018	2/08/2018	90
Refuse Reserve - TD4737601	2,278,155	2.20%	4,119	BWA	AA	24/07/2018	23/08/2018	30
Information Technology Reserve - TD4737602	506,214	2.20%	915	BWA	AA	24/07/2018	23/08/2018	30
City Assist Initiative Reserve - TD4737603	101,243	2.20%	183	BWA	AA	24/07/2018	23/08/2018	30
Youth Engagement Strategy Reserve - TD4737604	231,551	2.20%	419	BWA	AA	24/07/2018	23/08/2018	30
Sub-total - Term Deposits - (Cash Backed Reserves)	18,156,055		94,232					
Reserve Funds Investments (Developer Contributions)								
DCA - 1 Hard Infrastructure - Bertram - TDB35732709.88	1,781,364	2.20%	3,221	CBA	AA	23/07/2018	22/08/2018	30
DCA - 2 Hard Infrastructure - Wellard - TD2625517	2,280,992	2.65%	15,236	BEN	A	23/05/2018	23/08/2018	92
DCA - 5 Hard Infrastructure - Wandl - TD10552059	1,300,292	2.05%	2,337	NAB	AA	26/07/2018	27/08/2018	32
DCA - 9 Soft Infrastructure - Wandl/Anketell - TD10552714	3,378,489	2.05%	5,882	NAB	AA	30/07/2018	30/08/2018	31
DCA - 9 Soft Infrastructure - Wandl/Anketell - TD4738901	3,376,874	2.20%	6,513	BWA	AA	27/07/2018	28/08/2018	32
DCA - 9 Soft Infrastructure - Wandl/Anketell - TD97-154-6348	3,378,517	2.15%	6,169	NAB	AA	6/07/2018	6/08/2018	31
DCA - 11 Soft Infrastructure - Wellard East - TDB35732709.87	4,468,631	2.20%	8,080	CBA	AA	23/07/2018	22/08/2018	30
DCA - 12 Soft Infrastructure - Wellard West - TD4730047	6,425,745	2.20%	11,619	BWA	AA	2/07/2018	1/08/2018	30
Sub-total - Reserve Funds Investments (Developer Contributions)	26,390,906		59,058					
Total	50,461,643		178,520					
Less Trust Bank	(2,222,893)							
Total Municipal Controlled Funds	48,238,750		178,520					

Institution Key

ANZ	ANZ Bank
BEN	Bendigo Bank
BWA	Bankwest
CBA	Commonwealth Bank
NAB	National Australia Bank
PC	Petty Cash
WBC	Westpac Bank

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 3(b): Cash and Investments - Compliance with Investment Policy

Portfolio Credit Risk	Funds Held	Actual at Period End	Limit per Policy	
AAA & Bendigo Bank Kwinana Community Branch	-	0%	100%	✓
AA	48,176,001	95%	100%	✓
A	2,280,992	5%	60%	✓
BBB	-	0%	20%	✓
Unrated	-	-	20%	✓

Counterparty Credit Risk	Funds Held	Actual at Period End	Limit per Policy	
AMP (A)	-	0.00%	25%	✓
ANZ (AA)	992	0.01%	45%	✓
BEN (AAA)	2,280,992	5.00%	45%	✓
BWA (AA)	17,273,681	34.00%	45%	✓
CBA (AA)	12,159,035	24.00%	45%	✓
NAB (AA)	18,742,292	36.99%	45%	✓
PCU (UR)	-	0.00%	0%	✓
WBC (AA)	-	0.00%	45%	✓

Comments - Investment Policy Compliance

The City's investments are invested in line with Council Policy - Investments. The above tables exclude the total of petty cash (\$4,650) held by the City.

Interest received on the City's investments year to date is \$231,465.

5.5.1 Portfolio Credit Framework

To control the credit quality on the investment portfolio, the following credit framework limits the percentage of the portfolio exposed to any particular credit rating category.

S&P Long Term Rating	S&P Short Term Rating	Direct Investment Maximum for category %
AAA and Bendigo Bank Kwinana Community Branch	A-1+ and Bendigo Bank Kwinana Community Branch	100%
AA	A-1+	100%
A	A-1	60%
BBB	A-2	20%

If any of the investments within the portfolio are subject to a credit rating downgrade such that the portfolio credit percentages are no longer compliant with the Investment Policy, or there is a review of this policy, the investment will be divested as soon as practicable.

5.5.2 Counterparty Credit Framework

Exposure to an individual counterparty/institution will be restricted by its credit rating so that single entity exposure is limited, as detailed in the table below:

S&P Long Term Rating	S&P Short Term Rating	Direct Investment Maximum for category %
AAA and Bendigo Bank Kwinana Community Branch	A-1+ and Bendigo Bank Kwinana Community Branch	45%
AA	A-1+	45%
A	A-1	25%
BBB	A-2	10%

If any of the investments within the portfolio are subject to a credit rating downgrade such that the portfolio credit percentages are no longer compliant with the Investment Policy, or there is a review of this policy, the investment will be divested as soon as practicable.

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

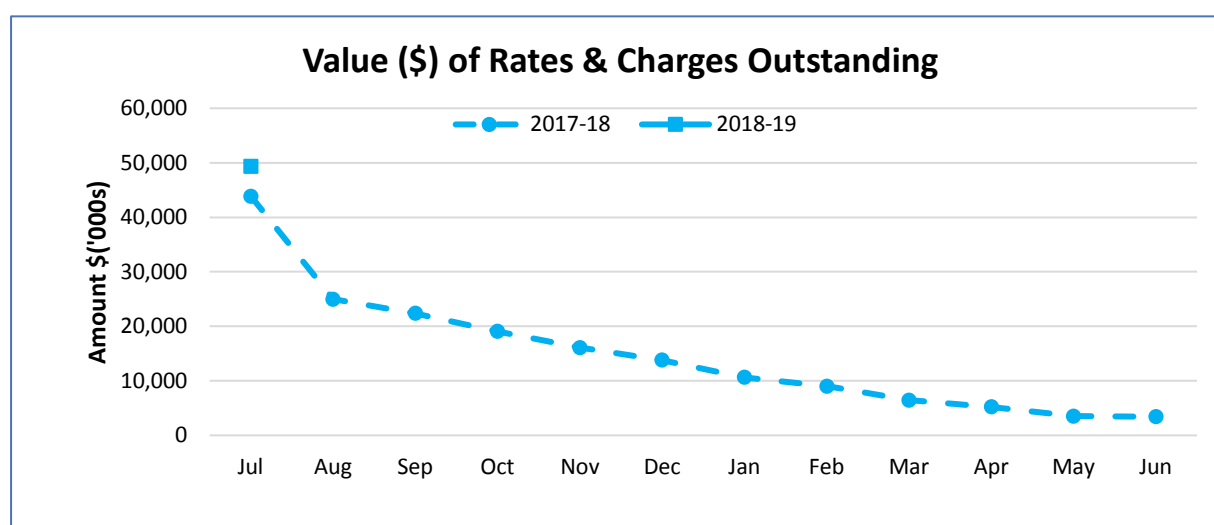
Note 4: Budget Amendments

GL Code	Description	Increase / (Decrease) to Net Surplus Position	Amended Budget Surplus / (Deficit)
	Budget Adoption	\$	\$ 0
	No budget amendments had been presented as at 31 July 2018.		
		Amended Budget Surplus / (Deficit)	0

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

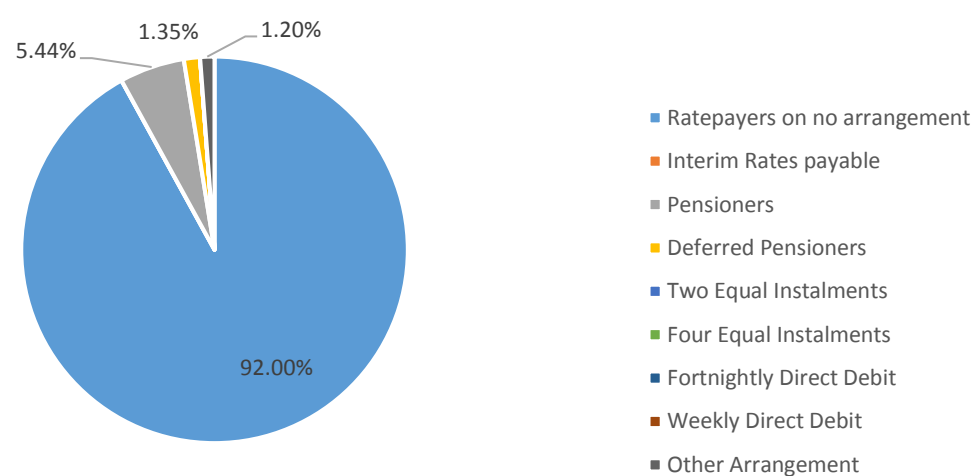
Note 5(a): Receivables - Rates & Charges

Receivables - Rates & Charges Receivable	31 Jul 2018	30 June 2018
	\$	\$
Opening Arrears Previous Years	3,476,504	2,162,393
Levied this year	48,298,403	47,015,825
<u>Less</u> Collections to date	(1,778,555)	(45,063,681)
Rates & Charges Collectable	49,996,352	4,114,537
Less Pensioner Deferred Rates	(677,405)	(678,782)
Net Rates & Charges Collectable	49,318,947	3,435,755
% Outstanding	95.26%	6.99%



Outstanding Rates & Charges by Payment Arrangement Type	31 Jul 2018	
	\$	%
Ratepayers on no arrangement	45,998,734	92.00%
Interim Rates payable	0	0.00%
Pensioners	2,721,822	5.44%
Deferred Pensioners	677,405	1.35%
Two Equal Instalments	0	0.00%
Four Equal Instalments	0	0.00%
Fortnightly Direct Debit	0	0.00%
Weekly Direct Debit	0	0.00%
Other Arrangement	598,391	1.20%
	49,996,352	100.00%

% of Outstanding Rates & Charges by Payment Arrangement Type



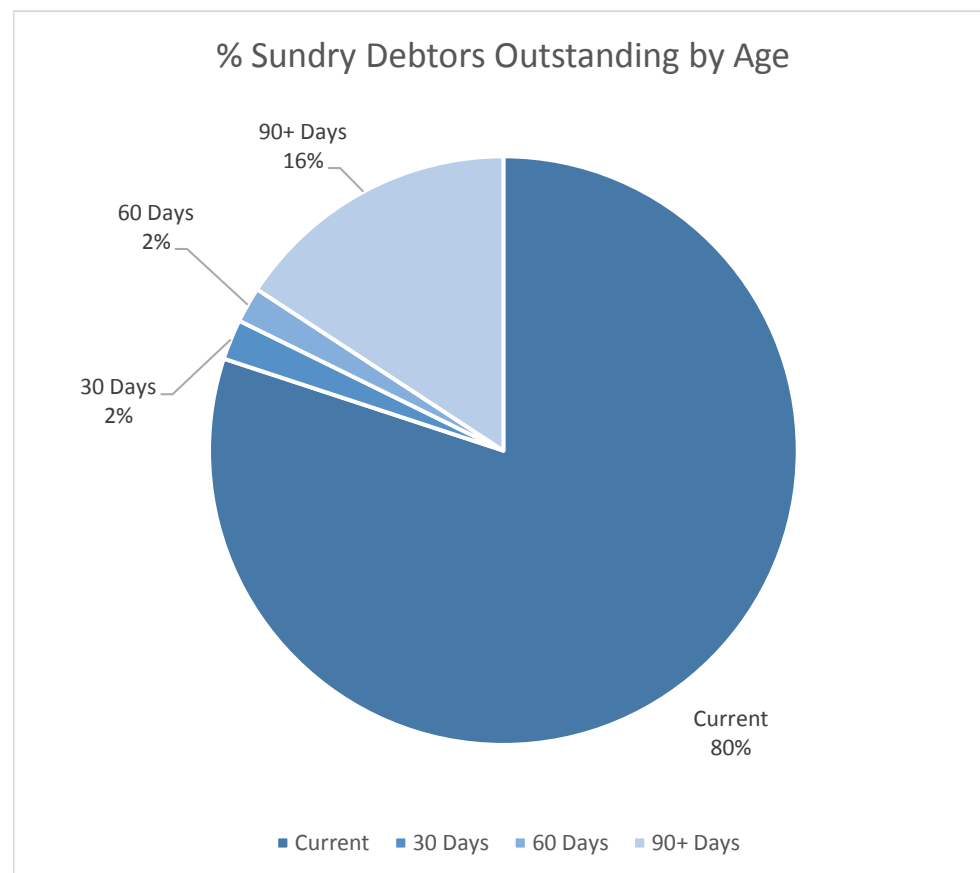
CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 5(b): Receivables - General

Receivables - General

	Current	30 Days	60 Days	90+ Days	Total
	\$	\$	\$	\$	\$
Sundry Debtors	1,238,960	34,308	30,281	244,044	1,547,593
Infringements Register					113,678
Total Receivables General Outstanding					1,661,271

Amounts shown above include GST (where applicable)



Sundry Debtors Outstanding Over 90 Days Exceeding \$1,000

Debtor #	Description	Status	\$
Banksia Park Management Fees to be recouped upon sale of unit			
1497.11	Banksia Park Fees	Invoice will be cleared in September.	2,323
Debts with Fines Enforcement Registry			
1825.07	Court awarded fines and costs	With Fines Enforcement Registry. Payments are being received.	2,843
2442.07	Court imposed fine	No payments received. With Fines Enforcement Registry.	5,732
2535.07	Dog attack prosecution costs	Regular payments ceased in 2015; with Fines Enforcement Registry.	6,444
2726.07	Planning and Development Act prosecution	Regular payments ceased in December 2016. With Fines Enforcement Registry.	21,883
3321.07	Dog fines and prosecution costs	Regular payments of \$25 per fortnight via Fines Enforcement Registry.	2,410
3485.07	Food Act prosecutions	No payments received. With Fines Enforcement Registry.	13,524
3909.07	Local Government Act prosecution	No payments received. With Fines Enforcement Registry.	3,652
3910.07	Local Government Act prosecution	Direct debit arrangement of \$30 per fortnight.	1,152
3936.07	Prosecution RO 706-709	Regular payments of \$150 per fortnight via Fines Enforcement Registry.	9,602
3953.07	Local Law prosecution	Regular payments of \$45 per fortnight via Fines Enforcement Registry.	2,689
4060.07	Littering Act prosecution	Direct debit arrangement of \$50 per fortnight.	2,612
4131.07	Dangerous Dog Prosecution	No payments received. With Fines Enforcement Registry.	4,654
Other Sundry Debtors			
296.04	Commercial Property Rent	Director City Legal in discussions with lessee.	4,115
303.04	Structural Maintenance Fee / Loan	Payment arrangement in place to have debt cleared by end of financial year.	7,182
854.04	Rent and Outgoings	Investigating dispute regarding CPI increase.	5,804
897.04	Deed of Settlement	Payment arrangement in place to have debt cleared by end of financial year.	125,000
3884.03	Removal of abandoned vehicle	Regular payments of \$40 per fortnight being received.	2,155
3922.03	Verge clean up costs	Legal to advise. Debt has been linked to property.	1,090
3951.06	Developer Contributions - Fairhaven Estate	Waiting on subdivision prior to payment as per agreement.	3,786
4051.03	Costs associated with removal of furniture	No reply to correspondence. Debt has been linked to the property.	1,012
4123.07	Removal of Asbestos	No reply to correspondence. Debt has been linked to the property.	1,705
4162.04	Community Centre hire fees	Notice of demand sent 26/7/18.	1,034
4141.03	Hazard Reduction Braddock Rd Wellard	Final reminder sent 13/8. No response to date.	2,048
Total Debtors 90+ days > \$1,000			234,451

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 6: Cash Backed Reserves

	Adopted Budget				Current Budget				Actual					Variance
	Opening Balance	Transfers In (incl Interest (+))	Transfers Out (-)	Closing Balance	Opening Balance	Transfers In (incl Interest (+))	Transfers Out (-)	Current Budget Closing Balance	Opening Balance	Actual Transfers In (+)	Interest Earned (+)	Transfers Out (-)	YTD Closing Balance	Actual vs Current Budget
Reserve	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Municipal Reserves														
Aged Persons Units Reserve	765,541	308,844	(232,750)	841,635	765,541	308,844	(232,750)	841,635	748,728	0	0	0	748,728	(92,907)
Asset Management Reserve	501,595	8,721	(180,000)	330,316	501,595	8,721	(180,000)	330,316	501,595	0	0	0	501,595	171,280
Asset Replacement Reserve	748,122	263,007	(351,200)	659,929	748,122	263,007	(351,200)	659,929	498,122	0	0	0	498,122	(161,807)
Banksia Park Reserve	134,175	2,333	(49,738)	86,769	134,175	2,333	(49,738)	86,769	131,151	0	0	0	131,151	44,381
City Assist Initiative Reserve	100,401	1,743	(102,144)	(0)	100,401	1,743	(102,144)	(0)	100,401	0	842	0	101,243	101,243
Community Services & Emergency Relief Reserve	84,017	1,461	0	85,478	84,017	1,461	0	85,478	84,017	0	0	0	84,017	(1,461)
Contiguous Local Authorities Group Reserve	263,146	14,575	(20,000)	257,721	263,146	14,575	(20,000)	257,721	265,873	0	0	0	265,873	8,152
Employee Leave Reserve	4,119,629	71,623	(300,000)	3,891,252	4,119,629	71,623	(300,000)	3,891,252	4,231,588	0	3,652	0	4,235,240	343,988
Family Day Care Reserve	1,479,306	25,719	(805,560)	699,465	1,479,306	25,719	(805,560)	699,465	1,486,803	0	0	0	1,486,803	787,338
Future Community Infrastructure Reserve	1,538,389	26,746	(663,284)	901,851	1,538,389	26,746	(663,284)	901,851	1,381,900	0	0	0	1,381,900	480,049
Golf Course Cottage Reserve	28,033	487	0	28,520	28,033	487	0	28,520	28,033	0	0	0	28,033	(487)
Information Technology Reserve	1,890,703	32,871	(1,416,000)	507,574	1,890,703	32,871	(1,416,000)	507,574	1,890,703	0	4,209	0	1,894,912	1,387,338
Infrastructure Reserve	339,968	5,911	0	345,879	339,968	5,911	0	345,879	339,968	0	0	0	339,968	(5,910)
Refuse Reserve	8,698,885	180,697	(83,880)	8,795,702	8,698,885	180,697	(83,880)	8,795,702	8,736,657	0	18,940	0	8,755,597	(40,105)
Restricted Grants & Contributions Reserve	1,694,812	0	(1,694,812)	0	1,694,812	0	(1,694,812)	0	2,517,406	0	0	(885,044)	1,632,362	1,632,361
Settlement Agreement Reserve	160,000	2,782	0	162,782	160,000	2,782	0	162,782	160,000	0	0	0	160,000	(2,782)
Workers Compensation Reserve	330,200	5,741	0	335,941	330,200	5,741	0	335,941	320,268	0	0	0	320,268	(15,673)
Youth Engagement Reserve	130,412	2,264	(132,676)	0	130,412	2,264	(132,676)	0	144,651	0	1,925	0	146,576	146,576
Sub-Total Municipal Reserves	23,007,334	955,524	(6,032,044)	17,930,814	23,007,334	955,524	(6,032,044)	17,930,814	23,567,866	0	29,567	(885,044)	22,712,389	4,781,575
Developer Contribution Reserves														
DCA 1 - Hard Infrastructure - Bertram	1,851,461	182,424	(491,817)	1,542,068	1,851,461	182,424	(491,817)	1,542,068	1,743,837	0	14,645	0	1,758,482	216,414
DCA 2 - Hard Infrastructure - Wellard	1,772,974	429,946	(2,197,177)	5,743	1,772,974	429,946	(2,197,177)	5,743	1,969,898	0	0	0	1,969,898	1,964,155
DCA 4 - Hard Infrastructure - Anketell	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCA 5 - Hard Infrastructure - Wandi	1,286,174	661,998	(454,627)	1,493,545	1,286,174	661,998	(454,627)	1,493,545	3,104,086	0	2,400	0	3,106,486	1,612,941
DCA 7 - Hard Infrastructure - Mandogalup West	11,803	14,077	(159)	25,720	11,803	14,077	(159)	25,720	8,567	0	72	0	8,639	(17,081)
DCA 8 - Soft Infrastructure - Mandogalup	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCA 9 - Soft Infrastructure - Wandi/Anketell	10,446,476	576,997	(141,136)	10,882,338	10,446,476	576,997	(141,136)	10,882,338	9,928,654	0	40,673	0	9,969,327	(913,011)
DCA 10 - Soft Infrastructure - Casuarina/Anketell	229,412	246,696	(3,099)	473,009	229,412	246,696	(3,099)	473,009	0	0	0	0	0	(473,009)
DCA 11 - Soft Infrastructure - Wellard East	5,734,336	1,081,744	(77,473)	6,738,607	5,734,336	1,081,744	(77,473)	6,738,607	4,374,577	0	36,737	0	4,411,314	(2,327,293)
DCA 12 - Soft Infrastructure - Wellard West	6,622,131	355,217	(89,468)	6,887,880	6,622,131	355,217	(89,468)	6,887,880	6,297,347	0	40,151	0	6,337,498	(550,383)
DCA 13 - Soft Infrastructure - Bertram	283,730	8,356	(3,833)	288,252	283,730	8,356	(3,833)	288,252	288,108	0	2,435	0	290,543	2,291
DCA 14 - Soft Infrastructure - Wellard/Leda	480,660	130,374	(6,494)	604,540	480,660	130,374	(6,494)	604,540	367,092	0	3,102	0	370,194	(234,346)
DCA 15 - Soft Infrastructure - City Site	144,189	23,788	(1,948)	166,029	144,189	23,788	(1,948)	166,029	161,124	0	1,362	0	162,486	(3,543)
Sub-Total Developer Contribution Reserves	28,863,346	3,711,616	(3,467,231)	29,107,731	28,863,346	3,711,616	(3,467,231)	29,107,731	28,243,290	0	141,577	0	28,384,867	(722,864)
Total Reserves	51,870,680	4,667,140	(9,499,275)	47,038,545	51,870,680	4,667,140	(9,499,275)	47,038,545	51,811,156	0	171,144	(885,044)	51,097,256	4,058,711

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 7: Disposal of Assets

Asset Number	Asset Description	YTD Actual				Budget			
		Net Book Value	Proceeds	Profit	(Loss)	Net Book Value	Proceeds	Profit	(Loss)
		\$	\$	\$	\$	\$	\$	\$	\$
	Motor Vehicles								
5061	Plant Replacement - P402					19,875	14,000		(5,875)
5060	Plant Replacement - P403					19,875	14,000		(5,875)
5080	Plant Replacement - P407					19,111	8,000		(11,111)
5597	Plant Replacement - P435					22,222	24,000	1,778	
5705	Plant Replacement - P445					20,979	13,000		(7,979)
5876	Plant Replacement - P457					16,275	12,000		(4,275)
5859	Plant Replacement - P460					29,111	18,000		(11,111)
5884	Plant Replacement - P461					18,645	23,000	4,355	
5871	Plant Replacement - P464					21,750	23,000	1,250	
5838	Plant Replacement - P465					22,959	8,000		(14,959)
5809	Plant Replacement - P467					26,583	24,000		(2,583)
5872	Plant Replacement - P462					23,208	13,000		(10,208)
5983	Plant Replacement - P490					18,601	13,500		(5,101)
5831	Plant Replacement - P455					26,584	24,000		(2,584)
5856	Plant Replacement - P459					29,111	23,000		(6,111)
5093	Plant Replacement - P406					17,750	7,000		(10,750)
5885	Plant Replacement - P463					23,208	13,000		(10,208)
5666	Plant Replacement - P437					21,500	8,000		(13,500)
	Plant & Equipment								
2587	Plant Replacement Program - 7 X 4 Box Trailer with Water Tank and 5.5 Hp Pump - P148					0	1,000	1,000	
4957	Plant Replacement Program - Agrizzi Rota Slasher 72 inch - P413					0	1,000	1,000	
3974	Plant Replacement Program - Cat Skid Steer Loader - P347					25,600	20,000		(5,600)
3722	Plant Replacement Program - Hino 300 Series 816 Crew Cab Truck - Parks - P324					35,486	25,000		(10,486)
4083	Plant Replacement Program - Massey Ferguson Tractor - Parks - P354					51,333	30,000		(21,333)
3842	Plant Replacement Program - Mitsubishi Canter Tip Truck - Infra - P333					29,750	15,000		(14,750)
2819	Plant Replacement Program - Salloy Boxtop Trailer with Water Tank and Pump - P199					189	1,000	811	
3407	Plant Replacement Program - Disposal Only					20,540	12,000		(8,540)
3447	Plant Replacement Program - Disposal Only					4,062	5,000	938	
5646	Plant Replacement Program - KAP Ride on Mower with Catcher - replace P444					18,001	6,000		(12,001)
3481	P289 Tip Truck from 17/18					30,233	25,000		(5,233)
		0	0	0	0	612,539	423,500	11,132	(200,172)
	Net Profit/(Loss)				0				(189,040)

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 8: Rating Information	YTD Actual							Budget					
	Rate in	Number of Properties	Rateable Value	Rate Revenue	Interim Rates	Back Rates	Total Revenue	Number of Properties	Rateable Value	Rate Revenue	Interim Rate	Back Rate	Total Revenue
RATE TYPE	\$		\$	\$	\$	\$	\$		\$	\$	\$	\$	\$
Differential General Rate													
Gross Rental Value (GRV)													
Improved Residential	0.07999	13,539	236,223,396	18,859,093	36,417	5,900	18,901,410	13,549	235,768,136	18,859,093	529,676	-	19,388,769
Improved Special Residential	0.07120	815	19,427,651	1,372,308	10,941	-	1,383,249	807	19,273,991	1,372,308	-	-	1,372,308
Light Industrial and Commercial	0.09043	136	23,421,923	2,118,044	-	-	2,118,044	136	23,421,923	2,118,044	-	-	2,118,044
General Industry and Service Commercial	0.08647	320	35,560,611	3,074,926	-	-	3,074,926	320	35,560,611	3,074,926	-	-	3,074,926
Large Scale General Industry and Service Commercial	0.08909	46	46,905,960	4,178,852	-	-	4,178,852	46	46,905,960	4,178,852	-	-	4,178,852
Vacant Residential	0.16828	401	8,056,700	1,375,819	(20,037)	(3,185)	1,352,597	415	8,175,770	1,375,819	-	-	1,375,819
Vacant Non Residential	0.10304	33	2,287,380	235,692	-	-	235,692	33	2,287,380	235,692	-	-	235,692
Unimproved Value (UV)													
General Industrial	0.01759	3	121,200,000	2,131,908	-	-	2,131,908	3	121,200,000	2,131,908	-	-	2,131,908
Mining	0.00847	25	39,960,000	338,461	-	-	338,461	25	39,960,000	338,461	-	-	338,461
Urban/Urban Deferred	0.00505	143	245,841,000	1,241,497	-	-	1,241,497	143	245,841,000	1,241,497	-	-	1,241,497
Sub-Totals		15,461	778,884,621	34,926,600	27,321	2,715	34,956,636	15,477	778,394,771	34,926,600	529,676	-	35,456,276
Minimum Payment	Minimum												
Gross Rental Value (GRV)	\$												
Improved Residential	\$1,036	1,429	1,658,878	1,481,480	-	-	1,481,480	1,430	16,916,772	1,481,480	-	-	1,481,480
Improved Special Residential	\$1,036	4	6,228	3,108	1,036	-	4,144	3	40,820	3,108	-	-	3,108
Light Industrial and Commercial	\$1,348	25	31,800	33,700	-	-	33,700	25	274,661	33,700	-	-	33,700
General Industry and Service Commercial	\$1,348	34	47,994	45,832	-	-	45,832	34	299,022	45,832	-	-	45,832
Large Scale General Industry and Service Commercial	\$1,348	0	-	-	-	-	-	0	-	-	-	-	-
Vacant Residential	\$1,036	937	923,572	992,488	1,036	4,405	997,929	958	4,987,503	992,488	-	-	992,488
Vacant Non Residential	\$1,036	2	-	2,072	-	-	2,072	2	4,320	2,072	-	-	2,072
Unimproved Value (UV)													
General Industrial	\$1,348	0	923,572	-	-	-	-	0	-	-	-	-	-
Mining	\$1,348	15	47,994	20,220	-	-	20,220	15	186,557	20,220	-	-	20,220
Rural	\$1,036	64	1,658,878	66,304	-	-	66,304	64	9,608,600	66,304	-	-	66,304
Sub-Totals		2,510	5,298,916	2,645,204	2,072	4,405	2,651,681	2,531	32,318,255	2,645,204	-	-	2,645,204
		17,971	784,183,537	37,571,804	29,393	7,120	37,608,317	18,008	810,713,026	37,571,804	529,676	-	38,101,480
Concession							-						-
Amount from General Rates							37,608,317						38,101,480
Ex-Gratia Rates							-						-
Specified Area Rates							-						-
Totals							37,608,317						38,101,480

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 9: Information on Borrowings

(a) Debenture Repayments

Particulars	01 Jul 2018	New Loans		Principal Repayments		Principal Outstanding		Interest Repayments	
		Actual	Current Budget	Actual	Current Budget	Actual	Current Budget	Actual	Current Budget
		\$		\$	\$	\$	\$	\$	\$
Governance									
Loan 99 - Administration Office Renovations	761,573	0	0	0	89,773	761,573	671,800	0	51,364
Loan 107 - Administration / Chambers Building Refurbishment	0	0	2,268,000	0	0	0	0	0	0
Education & Welfare									
Loan 96 - Youth Specific Space	147,840	0	0	0	25,366	147,840	122,474	0	11,654
Loan 100 - Youth Specific Space	1,521,312	0	0	0	122,515	1,521,312	1,398,797	0	79,645
Recreation and Culture									
Loan 94 - Wellard Sports Pavilion	204,824	0	0	0	46,488	204,824	158,336	0	13,704
Loan 95 - Orelia Oval Pavilion	354,815	0	0	0	60,878	354,815	293,937	0	27,970
Loan 97 - Orelia Oval Pavilion Extension	1,685,138	0	0	0	198,641	1,685,138	1,486,497	0	113,653
Loan 102 - Library & Resource Centre	7,421,567	0	0	0	0	7,421,567	7,421,567	0	386,720
Loan 104 - Recquatic Refurbishment	3,350,000	0	0	0	0	3,350,000	3,350,000	0	159,125
Loan 105 - Bertram Community Centre	1,296,840	0	0	0	0	1,296,840	1,296,840	0	50,827
Loan 106 - Destination Park - Calista	1,516,532	0	0	0	96,111	1,516,532	1,420,421	0	57,307
Transport									
Loan 98 - Streetscape Beautification	1,028,122	0	0	0	121,193	1,028,122	906,929	0	69,341
Loan 101 - City Centre Redevelopment	2,500,000	0	0	0	0	2,500,000	2,500,000	0	79,250
<u>Self Supporting Loans</u>									
Recreation and Culture									
Loan 103B - Golf Club Refurbishment	282,849	0	0	0	16,168	282,849	266,681	0	11,202
	22,071,412	0	2,268,000	0	777,133	22,071,412	21,294,279	0	1,111,762

(b) New Debentures

No new debentures were raised during the reporting period.

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018
























Note 10: Trust Fund

Funds held at balance date over which the City has no control and which are not included in this statement are as follows:

Description	Opening Balance 01 Jul 2017	Amount Received	Amount Paid	Closing Balance 31 Jul 2018
	\$	\$	\$	\$
Hall Security Bonds	70,253	17,900	(8,400)	79,753
Footpath & Kerbing Security Deposits	411,380		(50,270)	361,110
Sports Forfeiture Security Deposits	200			200
Bus Hire Security Deposits	3,000		(500)	2,500
Demolition Security Deposits	2,351			2,351
Miscellaneous Deposits	82,423			82,423
Footpath Construction Bonds	2,000			2,000
Land Subdivision Bonds	588,211			588,211
Road Maintenance Bonds	293,234	33,324		326,558
Landscaping Subdivision Bonds	138,787			138,787
Planning Advertising Bonds	0			0
Mortimer Road - Community Trust	10,421			10,421
ATU Landscaping Bonds	2,378			2,378
Landscaping Development Bonds	64,477			64,477
Subdivision Handrails	15,395			15,395
APU Security Bonds	15,481			15,481
Off Road Vehicles	1,510			1,510
Councillor Nomination Deposits	0			0
DCA Contingency Bonds	265,736			265,736
Contiguous Local Authorities Group (CLAG)	200			200
Retention Funds	37,524	25,818		63,342
Public Open Space Cash In Lieu	200,061			200,061
	2,205,022	77,042	(59,170)	2,222,894







































CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 11: Capital Acquisitions

Assets	Total YTD Actual	Budget		YTD Budget	YTD Variance	Comment
		Adopted Annual Budget	Current Annual Budget			
	\$	\$		\$	\$	
 Level of completion indicator, please see table at the end of this note for further detail.						
Buildings						
 Arts & Cultural Centre Upgrade - Stage 1 of 2	0	100,000	100,000	0	0	
 Automated Gates - Recquatic Front Counter	0	90,000	90,000	0	0	
 Banksia Park Retirement Village Building Renewals	0	90,000	90,000	0	0	
 Building Contingency	0	100,000	100,000	0	0	
 Building Renewals - Darius Wells	0	25,000	25,000	0	0	
 Building Renewals - Kwinana Senior Citizens Centre	0	100,000	100,000	0	0	
 Building Renewals - Margaret Feilman	0	15,000	15,000	0	0	
 Building Renewals - Thomas Oval Netball Clubrooms	0	6,500	6,500	0	0	
 Building Renewals - Wheatfield Cottage	0	20,000	20,000	0	0	
 Building Upgrades - CCTV Administration Building	0	100,000	100,000	0	0	
 Building Upgrades - Medina	0	100,000	100,000	0	0	
 Callistemon Court Retirement Village Building Renewals	0	192,750	192,750	0	0	
 DCA 12 - Local Sporting Ground with Community Centre / Pavilion - Wellard West	0	294,300	294,300	0	0	
 DCA 14 - Local Sporting Ground with Pavilion Extension (Wellard/Leda)	0	261,484	261,484	0	0	
 DCA 9 - Local Sports Ground Clubroom (Clubroom construction cost)	0	107,500	107,500	0	0	
 Solar Panels Upgrade	0	30,000	30,000	0	0	
 Administration Building & Civic Centre - Stage 1 of 2	0	2,268,000	2,268,000	0	0	
 Callistemon Court Retirement Village Building Upgrade	0	40,000	40,000	0	0	
 Entry Statement	723	18,000	18,000	0	(723)	
 DCA 13 - Local Sporting Ground with Community Sports Facility	120,250	328,516	328,516	0	(120,250)	
 Family Daycare Building Replacement of Playroom, Kitchenette and Toy Library	0	650,000	650,000	0	0	
 Buildings Total	120,973	4,937,050	4,937,050	0	(120,973)	
























CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 11: Capital Acquisitions

Assets	Total YTD Actual	Budget				Comment
		Adopted Annual Budget	Current Annual Budget	YTD Budget	YTD Variance	
Plant, Furniture and Equipment						
Furniture and Equipment						
 Design and Replacement of Mayoral Chains	0	10,000	10,000	0	0	
Computing Equipment						
 City Website Redevelopment	0	70,000	70,000	0	0	
 Corporate Business System Renewal - Implementation	0	1,191,000	1,191,000	0	0	
 Self Check Touchscreen Computer & Workstation - Library	0	7,000	7,000	0	0	
Plant and Equipment						
 CFWD Disability Hoist - Recquatic *Replaces W12459*	0	12,000	12,000	0	0	
 CWD Fixed Variable Notice Board *Replaces W12494*	0	70,000	70,000	0	0	
 Plant Replacement Program - 7 X 4 Box Trailer with Water Tank and 5.5 Hp Pump - P148	0	7,000	7,000	0	0	
 Plant Replacement Program - Agrizzi Rota Slasher 72 inch - P413	0	9,000	9,000	0	0	
 Plant Replacement Program - Cat Skid Steer Loader - P347	0	90,000	90,000	0	0	
 Plant Replacement Program - Hino 300 Series 816 Crew Cab Truck - Parks - P324	0	80,000	80,000	0	0	
 Plant Replacement Program - Massey Ferguson Tractor - Parks - P354	0	85,000	85,000	0	0	
 Plant Replacement Program - Mitsubishi Canter Tip Truck - Infra - P333	0	120,000	120,000	0	0	
 Plant Replacement Program - Salloy Boxtop Trailer with Water Tank and Pump - P199	0	7,000	7,000	0	0	
 Plant Replacement Program - Toro Ground Master Ride on Mower - Capital Maintenance - P499	0	7,000	7,000	0	0	
 Plant Replacement Program - Disposal Only - P263 1DDW108 - Caterpillar Vibrating Roller	0	0	0	0	0	
 Plant Replacement Program - Disposal Only - P275 1TKL116 - Roller Trailer	0	0	0	0	0	
 Plant Replacement Program - Disposal Only - P289 KWN1779 - Mitsubishi Tip Truck	0	0	0	0	0	
 Plant Replacement Program - Toro Rear Discharge Ride on Mower - P500	0	7,000	7,000	0	0	
 Plant Replacement Program - KAP Ride on Mower with Catcher - replace P444	0	38,200	38,200	0	0	
Motor Vehicles						
 Plant Replacement - P402 - KWN1961	0	37,500	37,500	0	0	
 Plant Replacement - P403 - KWN1960	0	37,500	37,500	0	0	
 Plant Replacement - P406 - KWN1898	0	28,500	28,500	0	0	
 Plant Replacement - P407 - KWN1949	0	28,500	28,500	0	0	
 Plant Replacement - P435 - KWN1957	0	33,500	33,500	0	0	
 Plant Replacement - P437 - KWN1993	0	25,000	25,000	0	0	
 Plant Replacement - P445 - KWN1983	0	28,500	28,500	0	0	
 Plant Replacement - P455 - KWN1987	0	25,000	25,000	0	0	
 Plant Replacement - P457 - 1EXX509	0	41,500	41,500	0	0	
 Plant Replacement - P459 - 1EWW253	0	41,500	41,500	0	0	
 Plant Replacement - P460 - 1EWW269	0	41,500	41,500	0	0	
 Plant Replacement - P461 - 1EXX886	0	41,500	41,500	0	0	
 Plant Replacement - P462 - 1EWO612	0	25,000	25,000	0	0	
 Plant Replacement - P463 - 1GBJ678	0	41,500	41,500	0	0	
 Plant Replacement - P464 - 1EXM745	0	41,500	41,500	0	0	
 Plant Replacement - P465 - 1EWS395	40,319	53,500	53,500	0	(40,319)	
 Plant Replacement - P467 - KWN1984	0	35,000	35,000	0	0	
 Plant Replacement - P490 - 1GCH844	0	41,500	41,500	0	0	
 Plant , Furniture and Equipment Total	40,319	2,458,200	2,458,200	0	(40,319)	






















CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 11: Capital Acquisitions

Assets	Total YTD Actual	Budget		YTD Budget	YTD Variance	Comment
		Adopted Annual Budget	Current Annual Budget			
Park and Reserves						
 Bore - Current Condition 5 Cubicle & Pump Replacement Program	0	75,000	75,000	0	0	
 Bore - Renewal / Replacement	0	105,000	105,000	0	0	
 CFWD Family Daycare Play Equipment and Landscaping *Replaces W12573*	0	101,569	101,569	0	0	
 Fencing Replacement Program	0	57,000	57,000	0	0	
 KIA Street Tree Planting Program (B)	0	75,000	75,000	0	0	
 Kwinana Loop Trail	0	80,000	80,000	0	0	
 CFWD Medina Oval Lighting *Replaces W12591*	0	300,000	300,000	0	0	
 Parks and Reserves Renewals - Kwinana Adventure Park	0	40,000	40,000	0	0	
 Pimlico Crescent Maintenance (F)	0	110,000	110,000	0	0	
 Public Open Space Playgrounds Renewals - Exercise Equipment/Sport	0	5,000	5,000	0	0	
 Public Open Space Playgrounds Renewals - Goal Post Renewal	0	5,000	5,000	0	0	
 Public Open Space Playgrounds Renewals - Oval/Courts/Lights	0	8,000	8,000	0	0	
 Public Open Space Playgrounds Renewals - Park Furniture / Lights	0	6,000	6,000	0	0	
 Public Open Space Playgrounds Renewals - Prince RegenT Park Combination Unit and Rubber Softfall - Calista Oval Playgroun	0	100,000	100,000	0	0	
 Public Open Space Playgrounds Renewals - Casuarina Fire Station Reserve - Park Bench - Casuarina Reserve Park Seats (2) - Pe	0	8,000	8,000	0	0	
 Public Open Space Playgrounds Upgrade - Orelia Oval Additional Steps to meet grass	0	20,000	20,000	0	0	
 Public Open Space (POS) Upgrades - Parks for People Minor Projects	0	25,000	25,000	0	0	
 Public Open Space (POS) Upgrades - Parks for People Strategy	0	100,000	100,000	0	0	
 Sporting Infrastructure - Wandj Playing Fields (Honeywood)	0	89,100	89,100	0	0	
 Street Tree Planting Program (A) - Bertram Stage 2	0	65,000	65,000	0	0	
 Thomas Oval Lighting	0	495,000	495,000	0	0	
 Kwinana Tennis Courts - Fencing	24,821	0	0	0	0	Budget Variation approved by Council 22 August 2018.
 Parks and Reserves Total	24,821	1,869,669	1,869,669	0	0	










CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 11: Capital Acquisitions

Assets	Total YTD Actual	Budget		YTD Budget	YTD Variance	Comment
		Adopted Annual Budget	Current Annual Budget			
Roads						
Urban Road Grant Construction						
 Road Reseal A - Gilmore Avenue - South bound lanes	0	380,490	380,490	0	0	
 Road Reseal C - Sulphur Road - Tanson road to Parmelia Ave	0	361,900	361,900	0	0	
 Road Reseal B - Orelia Avenue (Thomas Road to Chistmas Ave - Incl roundabout)	0	492,800	492,800	0	0	
Black Spot Grant Construction						
 Kwinana Beach Road (J)	0	48,253	48,253	0	0	
Roads to Recovery Grant Construction						
 Road Reseal D - Orelia Avenue - Nye Way to Chistmas Ave	0	181,500	181,500	0	0	
 Road Reseal E - Cowcher Way West & Ridley Way West From Derbal Street to Medina Avenue	0	253,000	253,000	0	0	
DCA Funded Construction						
DCA 1 - Millar Road		436,703	436,703	0	0	
DCA 1 - Wellard Road Upgrade – Bertram Road to Millar Road (Item J)		100,000	100,000	0	0	
DCA 5 - Lyon Road - Cassowary to Kenby (Satterleys)		437,250	437,250	0	0	
Municipal Road Construction						
 Gilmore Avenue Pedestrian Crossing	0	60,000	60,000	0	0	
 Local Area Traffic Management B - Harlow Road Bollard Installation	0	17,188	17,188	0	0	
 Road Reseal F - Duckpond Road & Banksia Road intersection	0	82,500	82,500	0	0	
 Road Reseal G - Clementi Road	0	104,500	104,500	0	0	
 Road Reseal L - Henry Street A	0	44,000	44,000	0	0	
 Roads Total	0	3,000,084	3,000,084	0	0	
			0			
Street Lighting						
 Latitude 32 Lighting Changeover *Replaces 12757*	0	262,272	262,272	0	0	
 Street Lighting - Various Locations *Replaces W12554*	0	22,000	22,000	0	0	
 Street Lighting - Johnson Road/McWhirter Promenade	0	110,000	110,000	0	0	
 Street Lighting Total	0	394,272	394,272	0	0	
Bus Shelter Construction						
 Bus Shelters (Replaces W12553)	0	20,000	20,000	0	0	
 Bus Shelter Construction Total	0	20,000	20,000	0	0	
Footpath Construction						
 Footpath A - Rowley Road - Lyon Road to Freeway	0	55,000	55,000	0	0	
 Footpath Construction - between Adventure Park and Gilmore Avenue (W12557)	710	138,560	138,560	0	(710)	
 Footpath Construction Total	710	193,560	193,560	0	(710)	

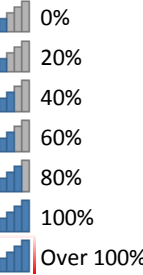
CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 11: Capital Acquisitions

Assets	Total YTD Actual	Budget				Comment
		Adopted Annual Budget	Current Annual Budget	YTD Budget	YTD Variance	
Drainage Construction						
 DCA 2 - Peel Sub N Drain - Lot 64 Woolcoot Rd & Lot 379 Millar, 27 & 201 Mortimer Rd's	0	1,916,198	1,916,198	0	0	
 DCA 2 - Peel Sub N2 Drain - Lot 64 Woolcoot Rd	0	257,025	257,025	0	0	
 Drainage A - Burlington Street Drainage Sump	0	93,500	93,500	0	0	
 Drainage B - Gilmore Avenue	0	33,000	33,000	0	0	
 Drainage C - Sulphur Road - Tanson To Parmelia	0	39,600	39,600	0	0	
 Drainage Construction Total	0	2,339,323	2,339,323	0	0	
Car Park Construction						
 Medina Oval - Bituminise entrance & Carpark	39	0	0	0	(39)	Budget Variation approved by Council 22 August 2018.
 Car Park Construction Total	39	0	0	0	(39)	
 Capital Expenditure Total	186,862	15,212,158	15,212,158	0	(162,041)	

0

Level of Completion Indicators (Percentage YTD Actual to Annual Budget)



CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 12: Schedule of Grants, Subsidies & Contributions

Description	Current Annual Budget	YTD Actual as at 31/07/18	Comments
Operating Grants, Subsidies & Contributions			
Community Amenities			
PTA Bus Shelter Subsidy	13,000	-	
SMCC - KIC Coastcare in the KIA	10,000	10,000	
SMCC - BP Coastcare	10,000	-	
SMCC - Perth Region NRM for SMCC	5,000	-	
SMCC - Tronox Adopt a Beach	5,000	-	
SMCC - Degremont Adopt a Beach	5,000	-	
Alcoa - Challenger Beach Rehabilitation	16,000	-	
NATE - Seedling Subsidy Scheme	2,000	-	
Education and Welfare			
Banksia Park Operating Cost Contribution	331,344	27,612	
Family Daycare - Mainstream Childcare Benefit Subsidy	3,000,000	300,348	
Family Daycare - Subsidy Other	45,000	4,000	
Family Daycare - Inclusion Subsidy Scheme	5,000	963	
CCB Subsidy	1,500,000	71,672	
Subsidy Other	10,000	-	
Youth Social Justice Program	172,561	43,140	
Youth Incentive Sponsorship	35,000	-	
Youth Pathways Strategy Grant	2,500	-	
Skate Park Activation Grant	5,000	-	
Good Spirit Learning Program Grant	20,000	-	
Youth Wellbeing Benchmark Survey Grant	5,000	-	
Art Therapy Youth Grant	50,000	-	
General Purpose Funding			
Local Government General Purpose Grant	737,676	-	
Local Government General Purpose Grant - Roads	669,912	-	
Non Rateable Property - Dampier to Bunbury Natural Gas Pipeline Corridor	170,000	-	
Health			
Mosquito Management Contributions (CLAG)	10,000	-	
Department of Health - Larvicide	1,000	-	
Law Order & Public Safety			
Department Fire and Emergency Services - ESL	161,000	-	
Department Fire and Emergency Services - LEMC Aware Grant	4,000	-	
Recreation & Culture			
Arts - Harmony & Reconciliation	5,000	-	
Sponsorship - Big Concert	60,000	-	
Childrens Festival	35,000	-	
Youth Festival	10,000	-	
Music in the Schools/Community	5,000	-	
Recreation - KidSport (DLGSC)	150,000	-	
Library Contributions & Donations	5,000	1,205	
Shared Use Agreements	108,702	-	
Recquatic Holiday Program DEDU payments	78,421	-	
Volunteer Centre - Thank a Volunteer Event	1,500	-	
Transport			
Main Roads Annual Direct Grant	104,611	-	
Main Roads Street Light Subsidy	5,000	-	
Main Roads Maintenance Contribution	70,000	-	
Total Operating Grants, Subsidies & Contributions	7,639,227	458,940	

CITY OF KWINANA
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 31 July 2018

Note 12: Schedule of Grants, Subsidies & Contributions

Description	Current Annual Budget	YTD Actual as at 31/07/18	Comments
Non-Operating Grants, Subsidies & Contributions			
Community Amenities			
DCA 1 - Hard Infrastructure - Bertram	127,900	-	
DCA 2 - Hard Infrastructure - Wellard	377,733	-	
DCA 4 - Hard Infrastructure - Anketell	-	633,006	
DCA 5 - Hard Infrastructure - Wandi	624,121	-	
DCA 7 - Hard Infrastructure - Mandogalup (west)	13,729	-	
DCA 9 - Soft Infrastructure - Wandi / Anketell	269,358	411,499	
DCA 10 - Soft Infrastructure - Casuarina/Anketell	239,940	-	
DCA 11 - Soft Infrastructure - Wellard East	912,873	-	
DCA 12 - Soft Infrastructure - Wellard West	160,201	-	
DCA 14 - Soft Infrastructure - Wellard / Leda	116,219	42,759	
DCA 15 - Soft Infrastructure - Townsite	19,542	2,291	
Recreation & Culture			
Department of Infrastructure - Thomas Oval Lighting	150,000	-	
Department of Education - Wandi Playing Fields	25,500	-	
Lotterywest - Kwinana Loop Trail	37,670	-	
Transport			
-	-	-	
City of Cockburn - Contribution to Footpath	25,000	-	
Federal Road Grant - Roads to Recovery	388,966	-	
State Road Grant - Main Roads WA Regional Road Grant	748,600	-	
State Road Grant - State Black Spot	48,253	-	
Total Non-Operating Grants, Subsidies & Contributions	4,285,605	1,089,555	

17 Urgent Business

Nil

18 Councillor Reports

18.1 Councillor Sandra Lee

Councillor Sandra Lee reported that she had attended the City of Kwinana Citizenship Ceremony on National Citizenship Day.

Councillor Lee advised that she had attended the Rockingham Kwinana Chamber of Commerce Breakfast and Westport Update and that there had been 150 attendees.

Councillor Lee mentioned that she had attended the Paper Cutting Art Exhibition Opening in Medina.

18.2 Councillor Matthew Rowse

Councillor Matthew Rowse reported that he had attended the Town Team Movement Conference where they explored ideas and opportunities for building vibrant town centres and strong, cohesive communities through place leadership and activation. Councillor Rowse added that he was pleased to see three City Officers in attendance and he hopes to be able to provide some assistance, through his experience organising community events, to help streamline the process involved and help community groups take a lead in activating their suburbs.

Councillor Rowse advised that he had attended the Arts and Technology Exhibition Opening at the Peter Carnley Anglican Community School.

Councillor Rowse mentioned that he had attended the City of Kwinana Citizenship Ceremony, where 47 new Australians were welcomed.

Councillor Rowse reported that he had attended the Rockingham Kwinana Chamber of Commerce Breakfast and Westport Update.

Councillor Rowse advised that he had attended the Conciliation Action Draft Plan Community Engagement Session.

Councillor Rowse mentioned that he had attended the Long Term Financial Plan Process Planning Session.

19 Response to Previous Questions

Question taken on notice at the Ordinary Council Meeting held on 8 August 2018.

19.1 Mr Kevin Desmond, Parmelia

Question 4

On the 11 April, I asked the question 'Can I be provided with a list of the Councillors travel expenses for this financial year?', now there are three names on this, Councillor Adams, Councillor Lee, Councillor Mills and Dennis Wood, but I don't think that the Councillors that went are all on the list? Is that correct?

Response

The Mayor referred the question to the Chief Executive Officer.

The Chief Executive Officer explained that travel expenses and professional development are viewed differently, so that going on a study tour is actually not a travel expense, the costs incurred are related to Training and Development. Excerpts from relevant legislation that define travel expenses are included below. The Chief Executive Officer further explained that travel expenses are treated differently, so if the question was 'who has been on any professional development that involved interstate travel' then you may have got a different answer to the one that was prepared for you.

The Chief Executive Officer undertook to provide an account of professional development involving interstate travel by Elected Members.

Local Government Act 1995

5.98. Fees etc. for council members

- (2) A council member who incurs an expense of a kind prescribed as being an expense —
 - (a) to be reimbursed by all local governments; or
 - (b) which may be approved by any local government for reimbursement by the local government and which has been approved by the local government for reimbursement,is entitled to be reimbursed for the expense in accordance with subsection (3).
- (3) A council member to whom subsection (2) applies is to be reimbursed for the expense —
 - (a) where the extent of reimbursement for the expense has been determined, to that extent; or
 - (b) where the local government has set the extent to which the expense can be reimbursed and that extent is within the range determined for reimbursement, to that extent.
- (4) If an expense is of a kind that may be approved by a local government for reimbursement, then the local government may approve reimbursement of the expense either generally or in a particular case but nothing in this subsection limits the application of subsection (3) where the local government has approved reimbursement of the expense in a particular case.

19 RESPONSE TO PREVIOUS QUESTIONS

*Local Government (Administration) Regulations 1996*31. *Expenses to be reimbursed (Act s. 5.98(2)(a) and (3))*

- (1) For the purposes of section 5.98(2)(a), the kinds of expenses that are to be reimbursed by all local governments are —
 - (a) rental charges incurred by a council member in relation to one telephone and one facsimile machine; and
 - (b) child care and travel costs incurred by a council member because of the member's attendance at a council meeting or a meeting of a committee of which he or she is also a member.

32. *Expenses that may be approved for reimbursement (Act s. 5.98(2)(b) and (3))*

- (1) For the purposes of section 5.98(2)(b), the kinds of expenses that may be approved by any local government for reimbursement by the local government are —
 - (a) an expense incurred by a council member in performing a function under the express authority of the local government; and
 - (b) an expense incurred by a council member to whom paragraph (a) applies by reason of the council member being accompanied by not more than one other person while performing the function if, having regard to the nature of the function, the local government considers that it is appropriate for the council member to be accompanied by that other person; and
 - (c) an expense incurred by a council member in performing a function in his or her capacity as a council member.

Elected Members Allowances, Expenses and Gifts

5.3.1 Travelling Expenses

Elected Members are to be reimbursed for travelling expenses incurred while **driving** a privately owned or leased vehicle (rather than a commercially hired vehicle) in the performance of the official duties of their office, subject to:

5.3.1.1 Claims being related to travel to a destination from their normal place of residence or work and return in respect to the following:

- (a) Council meetings, civic functions, citizenship ceremonies or briefings called by either Council, the Mayor and/or the Chief Executive Officer;
- (b) Committees to which the Elected Member is appointed a delegate or in the circumstance an Elected Member deputising for the delegate who is unable to attend, by Council.
- (c) Meetings, training and functions scheduled by the Chief Executive Officer or Directors.
- (d) Conferences, community organisations, industry groups and local government associations to which the Elected Member has been appointed by Council as its delegate or a deputy to the delegate.
- (e) Functions and presentations attended in the role as an Elected Member or whilst deputising for the Mayor, that are supported by a copy of the relevant invitation or request for attendance.
- (f) Gatherings or events (i.e. funerals, local business or community events), approved by the Chief Executive Officer for attendance by the Mayor or the Mayor's nominated deputy as a representative of the City.
- (g) Any other occasion in the performance of an act under the express authority of Council.

19 RESPONSE TO PREVIOUS QUESTIONS

- (h) Site inspections in connection with matters listed on any Council agenda (members to state the item number listed on any Council agenda along with the date and time of the visit on the claim form).
- (i) In response to a request to meet with a ratepayer/elector, but excluding contact with any relevant to the biennial elections (members to state the time and purpose of the visit and the name and address of the ratepayer/elector on the claim form).

5.3.1.2 Elected Members are to be reimbursed travelling expenses incurred while using their own private motor vehicle in the performance of the official duties of Council. The extent to which an Elected Member of a local government can be reimbursed for travel costs referred to in regulation 31(1)(b) of the Local Government (Administration) Regulations 1996 is –

- (a) if the person lives or works in the local government district or an adjoining local government district, the actual cost for the person to travel from the person's place of residence or work to the meeting and back; or
- (b) if the person does not live or work in the local government district or an adjoining local government district, the actual cost, in relation to a journey from the person's place of residence or work and back —
 - (i) for the person to travel from the person's place of residence or work to the meeting and back; or
 - (ii) if the distance travelled referred to in subparagraph (i) is more than 100 kilometres, for the person to travel from the outer boundary of an adjoining local government district to the meeting and back to that boundary.

5.3.1.4 Travel costs incurred while driving a privately owned or leased vehicle (rather than a commercially hired vehicle) are to be calculated at the same rate contained within Section 30.6 of the Local Government Officers' (Western Australia) Interim Award 2011 as at 17 June 2015.

5.3.1.5 Public Transport

In the event that an Elected Member does not have access to a private vehicle, for travel referred to above, or has a preference for public transport, the Elected Member may use the services of the bus and rail public transport system, expenditure for which is to be reimbursed upon completion of a travel claim form and lodgement of receipts. A taxi service is also acceptable where this is considered necessary.

5.3.1.6 Parking Fees

Parking fees incurred as a result of travel to any occasion referred to in clause 3.1.1 of this policy are to be reimbursed upon lodgement of receipts accompanying the associated travel claim form. The cost of 'valet' parking is not to be reimbursed (unless authorised by the Chief Executive Officer).

19 RESPONSE TO PREVIOUS QUESTIONSAdditional response from the City of Kwinana

In response to Mr Desmond's request, the following table includes the Elected Members who have travelled interstate for professional development and the total amount spent during the 2017/2018 financial year:

2017/2018 Elected Member Interstate Travel Costs			
Elected Member	Travel Costs	Accommodation Costs	Total
Mayor Carol Adams	\$ 1,672.83	\$ 956.17	\$ 2,629.00
Councillor Wendy Cooper	\$ 1,173.36	\$ 617.68	\$ 1,791.04
Councillor Sheila Mills	\$ 1,173.36	\$ 617.68	\$ 1,791.04
Councillor Matthew Rowse	\$ 1,419.63	\$ 1,048.42	\$ 2,468.05

20 Mayoral Announcements (without discussion)

Mayor Carol Adams reported that as part of Biodiversity Month she had attended the Wildflower Exhibition by watercolour artists Jane LI and Photographer Michaela Perryman.

The Mayor advised that she had attended the official opening by the Premier of Shelford Construction's new premises in Rockingham.

The Mayor mentioned that she had attended the Arts and Technology Exhibition Opening at the Peter Carnley Anglican Community School.

The Mayor reported that she had attended the City of Kwinana Citizenship Ceremony, where 47 new Australians were welcomed.

The Mayor advised that she had attended the Rockingham Kwinana Chamber of Commerce Breakfast and Westport Update.

The Mayor mentioned that as Co-Chair of the Kwinana Conciliation Action Group, she had attended two community meetings.

The Mayor reported that she had attended the Wellard Park(ing) day Event.

The Mayor advised that she had attended the Papercutting and Persian Tile Exhibition by Tusif Ahmad.

The Mayor mentioned that she had attended the Kwinana Tigers Hockey Club Awards Night, accompanied by Councillor Sheila Mills.

The Mayor reported that she had attended the Symphony Spectacular Media Launch at the Kwinana Marketplace and on behalf of the City, accepted a \$40,000 cheque from Tianqui Lithium who have agreed to sponsor this event and have the naming rights.

The Mayor advised that she had attended the South West Group of Mayors and that she met with Retired General Jeff Sengelman who has been appointed by the Premier to discuss potential defence initiatives in Western Australia.

21 Matters Behind Closed Doors

Mayor Carol Adams declared an indirect financial interest and exited the Council Chambers at 7:54pm.

COUNCIL DECISION

289

MOVED CR D WOOD

SECONDED CR W COOPER

That in accordance with Sections 5.23(2)(c) of the Local Government Act 1995, Council move behind closed doors to allow discussion of the Matter Behind Closed Doors items.

CARRIED

7/0

The Council Chambers doors were closed at 7:54pm

21.1 Request for consent to declaration of Trust, City of Kwinana Waste Supply Agreement

DECLARATION OF INTEREST:

The Mayor declared an indirect financial interest due to the company being a junior member of her husband's employer, Kwinana Industries Council (KIC) and an impartiality interest due to one of the Directors being a close friend and exited the Council Chambers at 7:54pm, Deputy Mayor Peter Feasey took the position as the Chair.

NOTE – Council resolution 292, minutes to be confirmed for the Ordinary Council Meeting held on 26 September 2018 at the Ordinary Council Meeting held on 10 October 2018, noted that: The Mayor incorrectly declared that she had an indirect financial interest in Item 21.1, Request for consent to declaration of Trust, City of Kwinana Waste Supply Agreement and vacated the Council Chambers.

The Mayor does not have an indirect financial interest to disclose and would like a notation to that effect made on the minute record. The Mayor did however correctly declare an impartiality interest arising out of a friendship with the proponent.

COUNCIL DECISION

290

MOVED CR S MILLS

SECONDED CR W COOPER

That Council:

Authorise the Mayor and Chief Executive Officer to consent to Project Co declaring a trust over its assets by way of creating the Trust, as per Confidential Attachment A, on behalf of the City of Kwinana.

CARRIED

7/0

21 MATTERS BEHIND CLOSED DOORS

COUNCIL DECISION

291

MOVED CR W COOPER

SECONDED CR D WOOD

That Council return from Behind Closed Doors.

**CARRIED
7/0**

The Council Chambers doors were reopened at 7:55pm

22 Meeting Closure

The Mayor declared the meeting closed at 7:56pm.

Chairperson: _____ 10 October 2018