



Shire of Lake Grace

27 October 2021 Ordinary Council Meeting

INFORMATION BULLETIN

ITEM 16.1 - ATTACHMENTS

TABLE OF CONTENTS

REPORTS:

No.	Title of Report	No of Pages
1	Infrastructure Services Report – September 2021	10
2	Environmental Health Officer Report – July - September 2021	3
3	Lake Grace Visitor Centre Report – July - September	7
4	Lake Grace Library Report and Statistics – Nil	1
5	Lake King Library Report and Statistics – 30 September 2021	1
6	Newdegate Library Report and Statistics – 30 September 2021	1

CIRCULARS, MEDIA RELEASES & NEWSLETTERS:

No.	Title of Attachment	No of Pages
1	PHEOC Bulletin No. 81	7
2	PHEOC Bulletin No. 82	6
3	PHEOC Bulletin No. 83	6
4	PHEOC Bulletin No. 84	6
5	Eastern Wheatbelt Biosecurity Group (EWBG) <ul style="list-style-type: none">• EWBG Annual General Meeting – 29 September 2021• EWBG Chair Report 2021• EWBHG Annual Report 2020/2021 Financial Year	16
6	Wheatbelt Secondary Freight Network Letter	3
7	PADLEY PARK – Stormwater Feasibility and Design Study	33
8	Wheatbelt South Regional Road Group – Reference Information for Elected Members on a Regional Road Group	25



INFORMATION BULLETIN

INFRASTRUCTURE SERVICES REPORT

YTD SEPTEMBER 2021

ROAD MAINTENANCE GRADING

ROAD MAINTENANCE GRADING FROM 1 SEPTEMBER 2021 - 30 SEPTEMBER 2021

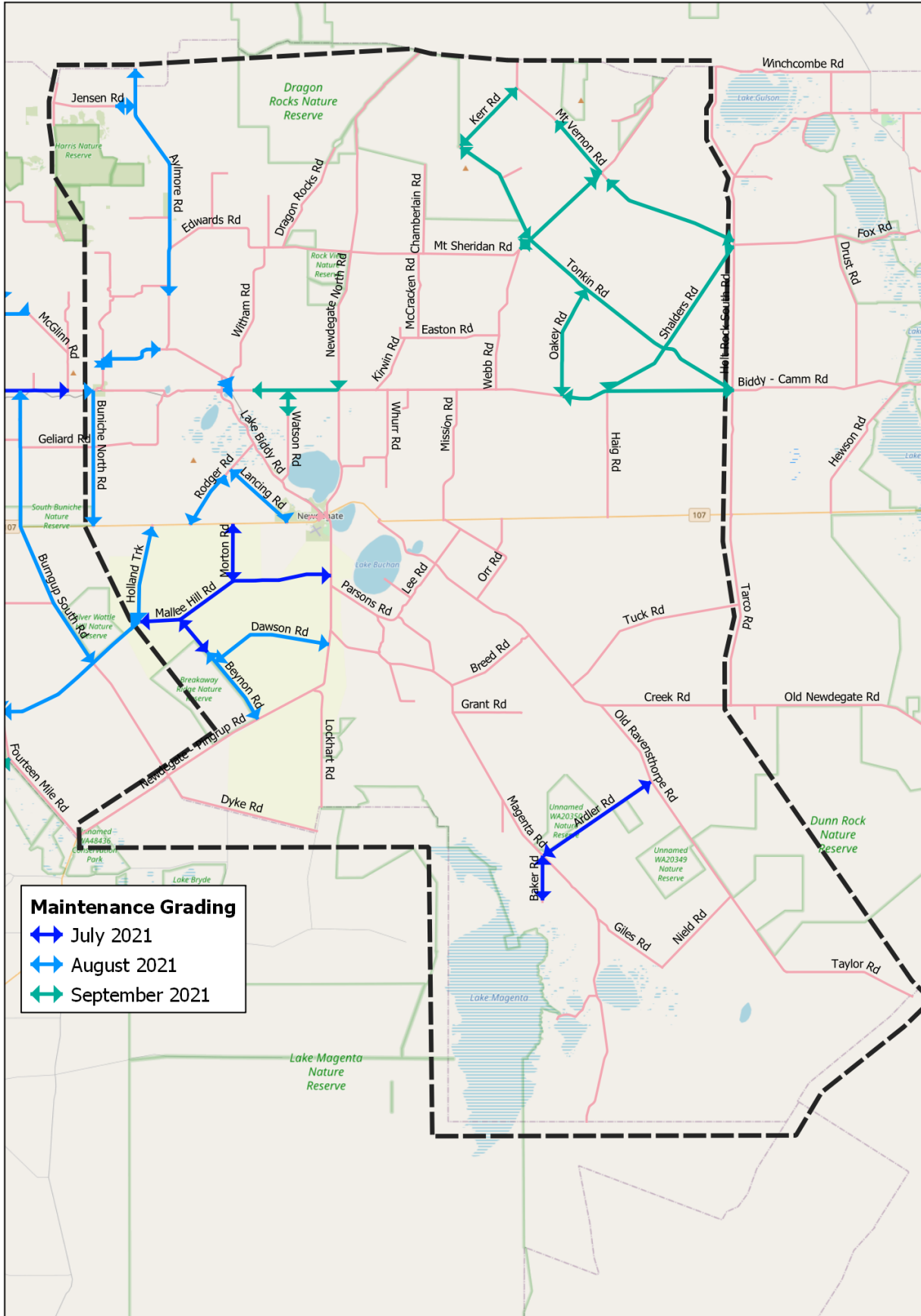
Newdegate – September 2021

Road	Total Graded (km)
Biddy Camm Rd	21.4
Kerr Rd	6.7
Mount Sheridan Rd	8.6
Mount Vernon Rd	17.5
Oakey Rd	9.3
Shalders Rd	16.3
Tonkin Rd	30.8
Watson Rd	2.1
Total	112.7

Newdegate 2021/22 YTD

Year	Month	Monthly Grading Total (km)
2021	July	55.2
	August	77.8
	September	112.7
	October	
	November	
	December	
2022	January	
	February	
	March	
	April	
	May	
	June	
	YTD Total	245.7

ROAD MAINTENANCE GRADING



ROAD MAINTENANCE GRADING

Lake Grace – September 2021

Road Name	Total Graded (km)
Bairstow Rd	20.5
Brookfield Rd	28.7
Cummings Rd	9.7
Mallee Hill Rd	1.9
O'Neill Rd	3.5
Thornton Rd	7.3
Tommys Dam Rd	7.2
Zweck Rd	4.4
Total	83.2

Lake Grace 2021/22 YTD

Year	Month	Monthly Grading Total (km)
2021	July	67.9
	August	106.7
	September	83.2
	October	
	November	
	December	
2022	January	
	February	
	March	
	April	
	May	
	June	
	YTD Total	257.8

ROAD MAINTENANCE GRADING

Lake King & Varley – September 2021

Road Name	Total Graded (km)
Baanga Hill Rd	5.6
Biddy Camm Rd	35.4
Hatters Hill Rd	8.4
Hogan Rd	7.7
Kathleen Rd	7.8
Lake Newton Rd	4.4
Norseman Rd	8.3
Spencer Rd	2.8
Sugg Rock Rd	7.9
Total	88.2

Lake King & Varley 2021/22 YTD

Year	Month	Monthly Grading Total (km)
2021	July	66.9
	August	71.4
	September	88.2
	October	
	November	
	December	
2022	January	
	February	
	March	
	April	
	May	
	June	
	YTD Total	226.5

ROAD MAINTENANCE GRADING

Total 2021/22 YTD Lake Grace, Newdegate and Lake King/Varley

Year	Month	Lake Grace	Newdegate	Lake King-Varley	Grading Total (km)
2021	July	67.9	55.2	66.9	190.0
	August	106.7	77.8	71.4	255.9
	September	83.2	112.7	88.2	284.1
	October				
	November				
	December				
2022	January				
	February				
	March				
	April				
	May				
	June				
	YTD (km)	257.8	245.7	226.5	730.0

PLANT MAINTENANCE

PLANT MAINTENANCE – SEPTEMBER 2021

Plant #	Plant Description	Action
PLM05	2013 Wilsons Road Verge Slasher	Replaced worn out slasher beams.
PROL10	2020 Multipac Steel Drum Roller	Repair jack stand.
PTOR09	2018 John Deere CAB Tractor	100 hour service.

BUILDING CONSTRUCTION & MAINTENANCE

CONSTRUCTION:

- Newdegate Country Club refurbishments & alterations;
- New shed at the Lake Grace irrigation oval tanks.

MAINTENANCE				
Lake Grace	Newdegate	Lake King	Varley	Other
3 Clarke Ave Hall, Lakes Village Saleyards Visitors Centre	Public Toilets Recreation Centre Shed, tip	Pavilion, Sports	Hall, Town Pavilion, Sports	

TOWN MAINTENANCE

LAKE GRACE:

- General maintenance, gardening/mowing & tidying of gardens and parks;

NEWDEGATE:

- General maintenance, gardening/mowing of the recreation grounds, parks and skate park;

LAKE KING:

- Carried out general gardening, mowing and spraying to all parks and gardens;

VARLEY:

- Carried out gardening maintenance and general maintenance, including spraying, mowing, raking of the town site, sports complex and cemetery for weeds;

CUSTOMER SERVICE REQUESTS

From period of 1 July 2021 to 30 September 2021.

	Complete	Non-complete	Total	% Complete
Works	6	2	8	75.0%
Building	6	1	7	85.7%
Parks & Gardens	10	0	10	100.0%
<i>Total</i>	22	3	25	88.0%

BUILDING SURVEYOR

Permits Approved – September 2021

No building permits issued in this month.



INFORMATION BULLETIN

ENVIRONMENTAL HEALTH REPORT

July – September 2021

HEALTH

This report is to highlight issues and activities ongoing within the environmental health area for the period July – September 2021

Covid-19

- Attending ongoing webinars from the WA Health Department, WACHS, WALGA, LEMC meetings as requested
- Communicating WA Directions to businesses and event organisers in local government district, where it is clear under the Emergency Management Act Direction or Mass Gatherings Directions that a business or gathering should close, not occur or be substantially modified
- Responding to various enquiries regarding Covid Directions
- Providing and assisting businesses and event organisers with interpretation of the Directions
- Assist with developing and reviewing Covid Safety Plans and AHA Covid Training
- Weekly reports to WAPOL on contact register compliance checks

Events

- Newdegate Machinery Field Days – debrief with committee

Food Businesses

Inspected the following premises for Food Act compliance-

- Café Arjo
- Rosies Café
- Lake Grace Hotel
- IGA
- Saltbush Inn
- Lake Grace Roadhouse
- Lake Grace Meat Supplies
- Walker's Hill Vineyard
- Farmyard Pantry
- Holland's Track Farm

Food Recall Notices circulated to all food businesses

- Ampersand Projects Alcoholic Beverages
- Barossa Fine Foods Pastrami
- KOO Canned Vegetable products
- Bakers Collection Gingerbread Men
- Jordan River Dates 1kg & 5kg
- Conroy's Smallgoods various products
- Leggo's Fresh Napoli Sauce
- Original Juice Co. Cloudy Apple Juice 1.5L
- Bad Shepherd Peanut Butter and Jam Barrel-Aged Porter
- Appletiser 750ml
- Whole Kids Smoothie Drops Berry, Banana and Coconut Milk 20g
- Nice Cola Sour Beer
- Noble Fellows Sauvignon Blanc 2021 Vintage 750mL
- Chef's Choice Premium Selected Chestnut Flour
- Premium Tasmanian Smoked Ham
- Audley & Hall assorted chocolate box (various weights)
- Vegie Delights Savoury Vegie Mince 400g

Lodging Houses & Caravan Parks

Inspected the following for compliance -

- Spenser's Shearing – Lake Grace
- Myriadena Caravan Park and Motel
- Lake King Tavern Motel
- Lake King Caravan Park
- Lake Grace Caravan Park – enquiry about building new kitchen facility
- Lake Grace Hotel complaint regarding accommodation referred to Department Racing, Gaming and Liquor

Onsite Effluent Disposal Systems

- Newdegate Country Club (ongoing)
- Waterless toilet – Jam Patch
- Enquiry regarding RV dump point for Lake King
- Enquiry regarding Lake King Pavillion
- Enquiry regarding Lake King Tavern Public toilet

Pool Water Sampling

- All pools closed for season

Public Buildings

Inspected the following for Health Public Buildings compliance-

- Lake King Tavern
- Walker's Hill Vineyard
- Lake Grace Hotel
- Newdegate Hotel
- Varley Country Club
- Newdegate Town Hall

Recycled Water Scheme

- Received Department of Health Approval (in principle)
- Infrastructure to be installed (pending)

Stallholder / Street Trading Permits

- Mrs G's Food Van

Waste Management

- Ongoing inspections of waste facilities
- Enquiries regarding asbestos disposal
- Annual Audit Compliance Report and Annual Environmental Report submitted to DWER

Other

- Public Health Plan progress – Health Profile Report completed and presented to Council. Health survey prepared for community consultation.
- Annual Food Act 2008 and Public Health Act Report submitted to Department of Health
- Annual fees and charges report to Finance Officer for all food premises, lodging houses, public buildings, etc



Brendon Gerrard

Principal Environmental Health Officer

LAKE GRACE VISITOR CENTRE



July - September 2021
Tourism Statistics

Prepared by Jo Morgan



Contents

Introduction	3
Origin of visitors to the Shire of Lake Grace	4
Local Travellers.....	4
Intrastate Travellers	5
Interstate Travellers	6
International Travellers	6
Unidentified Travellers/Destination of Travel.....	7
Age Group/ Popular VisitingDays.....	8
Mode of Transport.....	9
Yearly Growth.....	10

Introduction

This document is prepared for the Lake Grace Shire Council to illustrate visiting statistics to the Lake Grace Visitor Centre.

It is a snapshot of visitor profiles that visit our Shire and is not all inclusive. The Lake Grace Visitor Centre (LGVC) only records visitors that physically enter the centre. The use of signage, open flags and being positioned in the main street of town we feel we are getting the majority of genuine visitors calling into the centre.

One of the goals of the LGVC is to provide accurate information for visitors. We also want to provide an enjoyable experience for the visitor by sharing our history with them, i.e. through telling them about the Station Masters House. While in the LGVC we dispense brochures and maps highlighting places to see and things to do in our Shire foremost.

Equipped with additional information about the Shire of Lake Grace and its attractions, the tourist is more inclined to spend more time seeing and doing things in the Shire of Lake Grace. If they have the time visitors often add additional time in Lake Grace after visiting the Centre.

The graphs presented in this document are tracking several different measurements of tourism data. It must be remembered that not all visitors are comfortable with revealing information of their travels so it is based only on the information that has been offered and is not conclusive.

Visitor data measurements recorded include;

- Number of people
- Age
- Origin
- Route
- Mode of transport
- Accommodation
- Yearly tracking from 2014

Origin of visitors to the Shire of Lake Grace

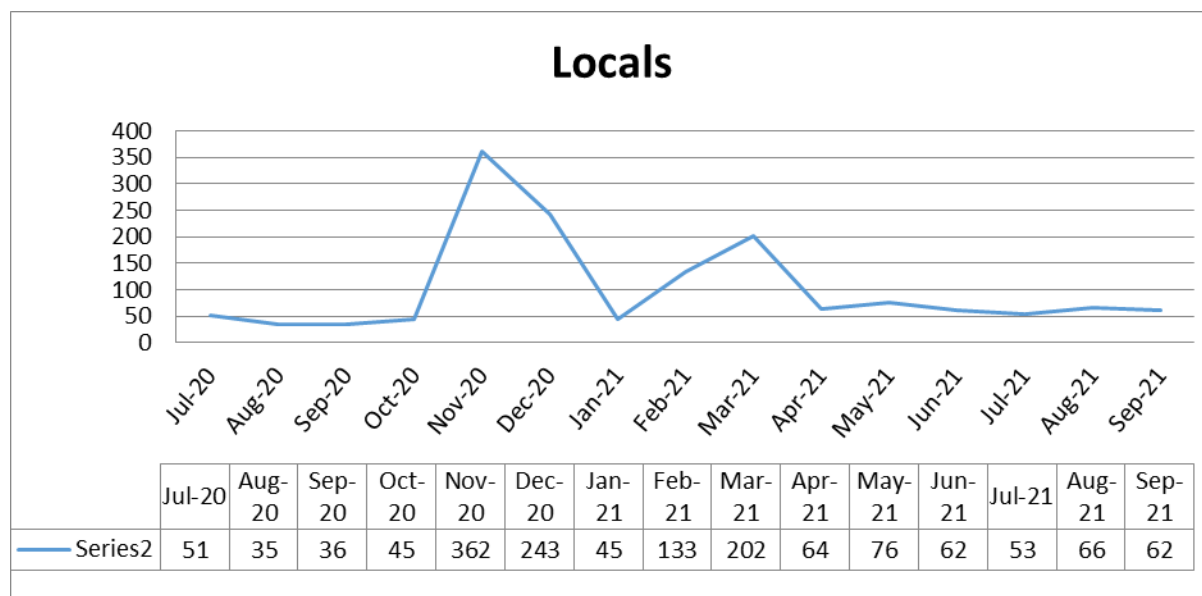
For the purpose of recording data visitors are classed into five groups;

- Locals – indicating they are from the town of Lake Grace. No purposeful travelling was required to visit the centre.
- Intrastate – this term is used to describe visitors from surrounding Shire of Lake Grace towns and the rest of WA, e.g. Newdegate, Kukerin, Wagin and Perth
- Interstate – this term is used to describe visitors from within Australia, including Tasmania who travel through the Shire
- International – this term is used to identify visitors from outside Australia including New Zealand
- Unidentified – Travellers who don't disclose where their place of origin.

Locals

We've kept a strong interest with our locals during the wildflower season. Being such a spectacular season we've seen more locals requesting maps and hot spot information. Wildflower books are running off the shelf thanks to a new book based on flowers found in the Tarin Rock Reserve.

There have been no events these last few months due to the cooler weather. We are currently planning on bringing events in late Spring and Summer.

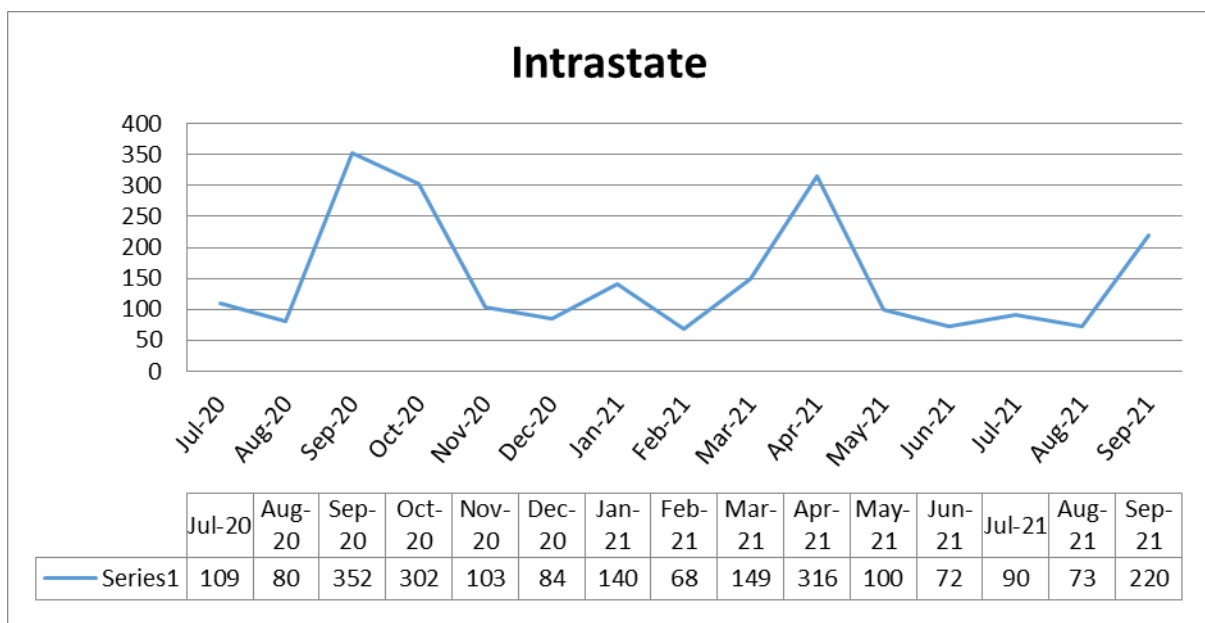


Intrastate Travellers

West Australians are still travelling around our state due to restrictions however this year, neighbouring states have allowed entry, giving us more travel options. The weather has been unpredictable, making warmer northern destinations more favourable.

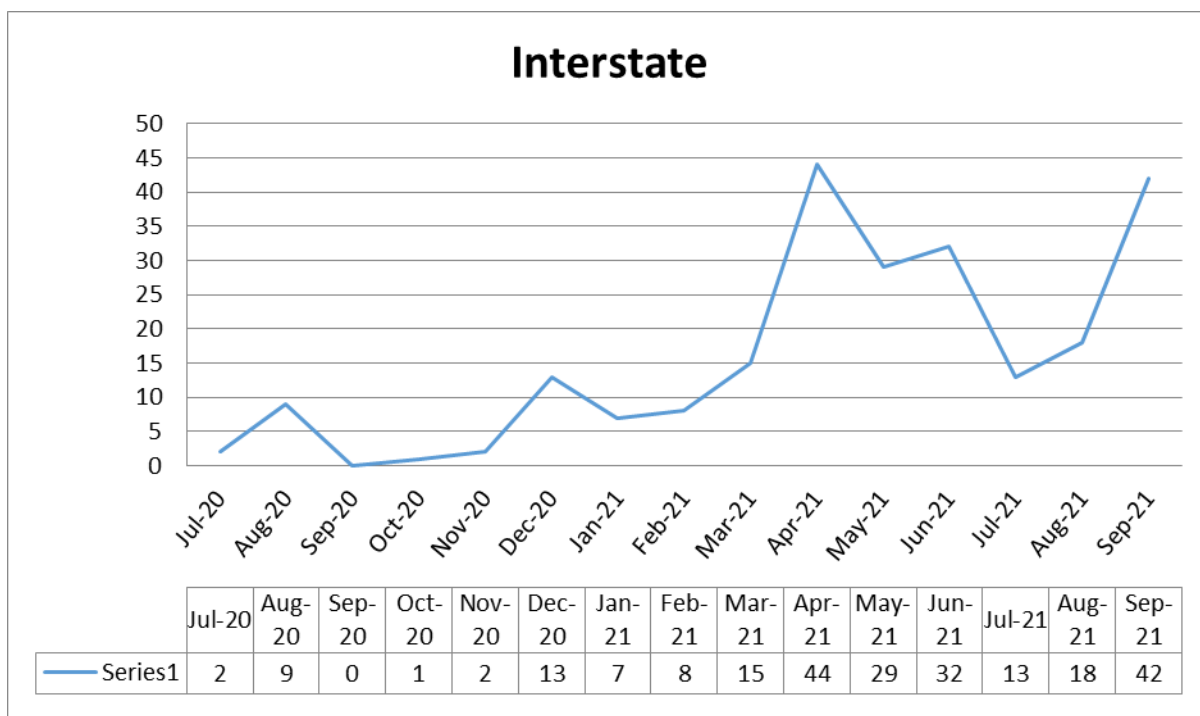
This wildflower season has been one of our best thanks so all the rain. It has brought many to our Shire to admire the healthy looking crops and memorable wildflower season. The Wave Rock Music Festival and the Kulin Bush Races went ahead this year which brought many to our Shire during the 4 day event. A great achievement to host such a large event when so many events have been cancelled this year.

When restrictions eventually ease intrastate travel will no doubt fall as we seek to travel further but it certainly has opened West Australians eyes, just how great their own backyard really is.

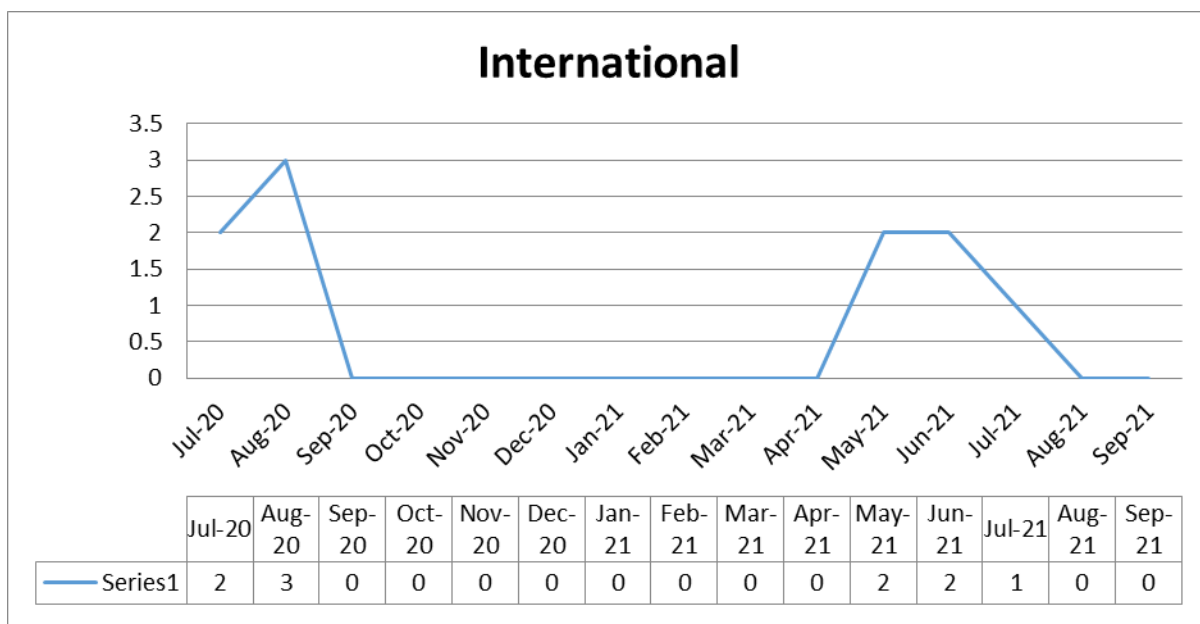


Interstate Travellers

This year our restrictions to other states vary depending on each state’s covid 19 status. NSW and Victoria have been locked out for the longest period. The increase in travelers are those from other states coming through. All Australian borders continue to be closed to International travelers.

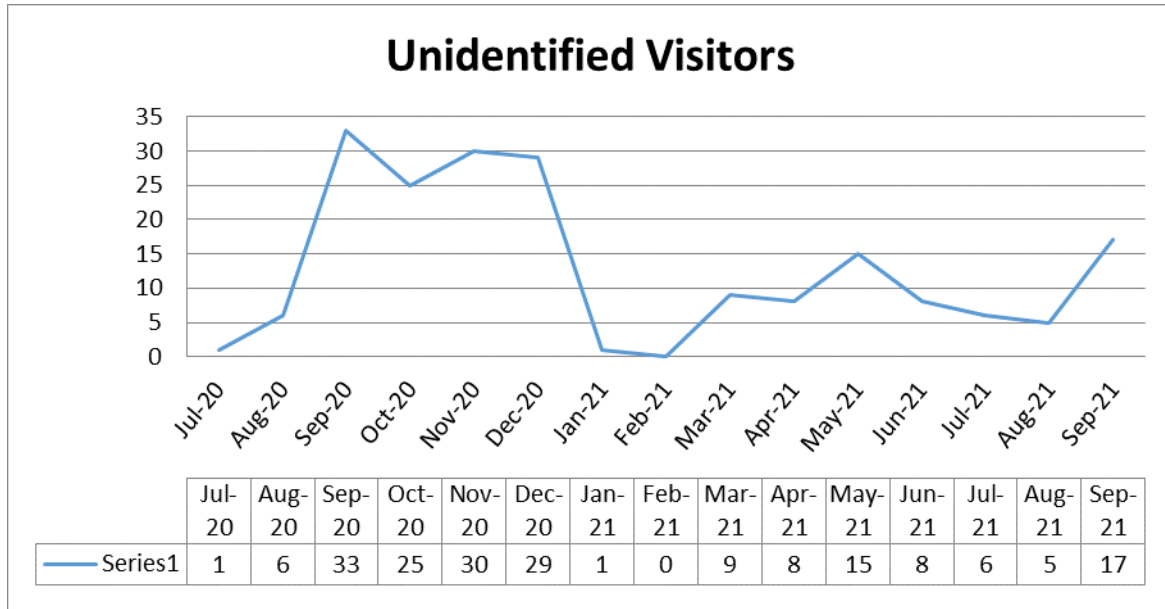


International Travellers



Unidentified Travellers

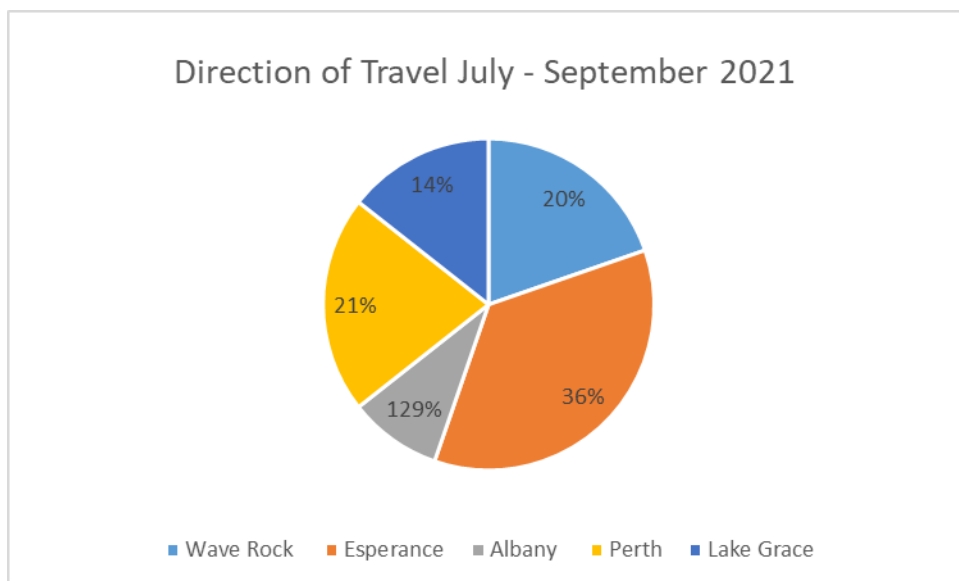
A group of travelers we try our very best to engage with but keeping in mind some people wish to simply browse and have a look around. As the visitor numbers picked up we often had many people in the centre at once. We have noted some people prefer to keep in the background and not engage and others could talk for days!



The majority of these mystery people popped in for a quick browse or a quick query.

Direction of Travel

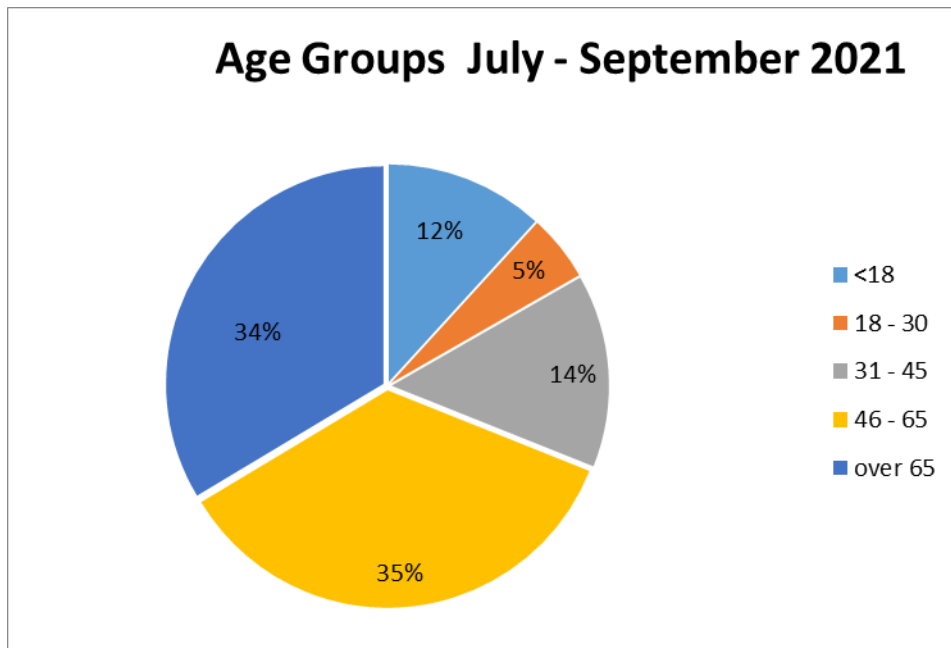
Known for our crossroads, our traffic consists off those heading to either Wave Rock/Hyden, Esperance, Albany or Perth. Esperance has officailly won most popular destination when heading out to Lake Grace. Great to see Lake Grace is also a main destination point.



Age Group

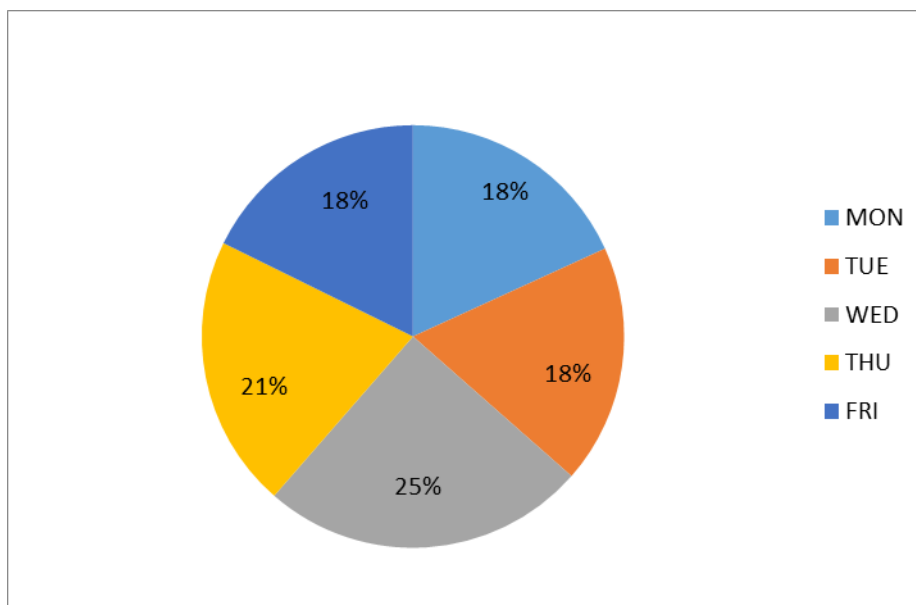
The information tracked in this graph is reliant on the recorders ability to judge ages of visitors, therefore probably not entirely accurate in all cases.

Its all Grey Nomads, young and older that are our confident travelers. We saw families during the school holidays and a continued interest in the Aim Hospital museum. Tours averaging 3 per day.



Popular Visiting Days

As we record our daily statistics it was interesting to note which days were popular amongst our visitors. This information over time can be used for staffing needs of the Visitor Centre along with tourism dollar spending in our shire. *This graph represents visitors from July – September 2021.*



Mode of Transport

People travel to and through our Shire in various forms of transport. We have recorded the transport used by those who called into the Visitor Centre. It's a great indication as to how people are moving through our region and how travellers are using our region. This data measures July to September 2021. There's been a huge increase in car travellers which would explain our local accommodation outlets low vacancy throughout this peak season.



67% + 2% electric



24%



4%



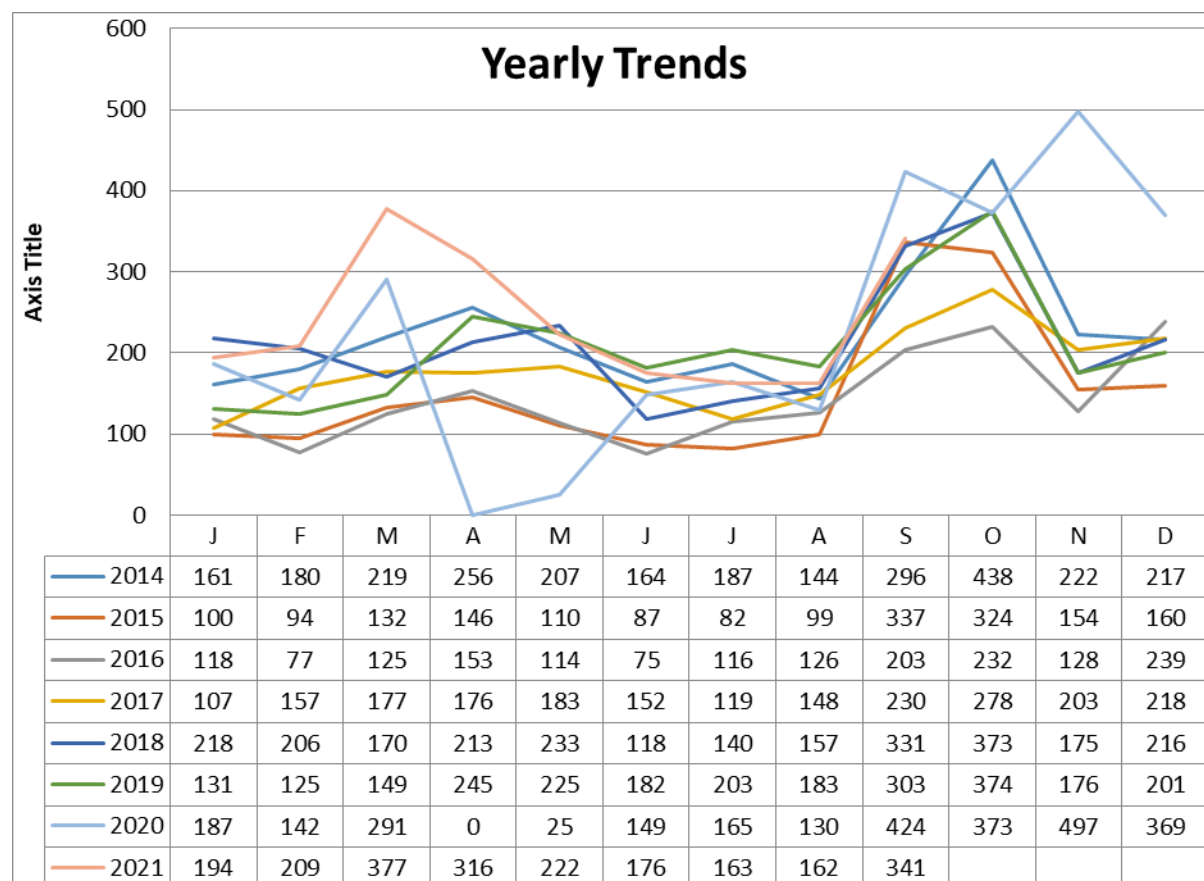
1%



2%

Yearly Trends

The chart below shows the LGVC recorded visitor trends over the past eight years. There has been steady growth in visitor numbers to the Shire of Lake Grace annually. 2020 was heading to a great start and then covid-19 happened. No record breaking crowds in the last 3 months but going well considering we still have restrictions in some states and internationally.



Lake Grace Community Library



LIBRARY REPORT – 14/10/2021

Accessioning and VDX are all up to date.
We received a new book exchange yesterday.

New books purchased with shire money have arrived and have already proved popular.

The school has purchased over 80 new junior, fiction and non-fiction, books for the library. They have been accessioned and put out on display.

I have received new books from Larrikin House using Book Fair credits.

The Scholastic Book Fair starts on Monday 25 October, and runs for two weeks.

Side student Neha Dwarakanath is now working in the library office. This arrangement is working well.

Great to see a lot more students using the library at recess and lunch times.

Statistics since the last meeting:

Aug 2021	Issues & Renewals	627	Borrower Visits	374
Sept 2021	Issues & Renewals	342	“ “	138

Library Co-ordinator Lois Dickins
Lake Grace Community Library

Lake King Library Report 1st October 2021

September has seen our usual monthly State Library exchange of new books arrive. Always exciting to open the box and see what we have received! Thanks to a budget allocation for new books from the Shire an order has been placed and we look forward to receiving those as well.

The end of the month bought school holidays and a quieter time although we have seen an increase in visitors who are passing through and looking for wildflower and local area information.

The State Library's Borrow box had a total of 40 audios and 3 eBooks borrowed by library members in September.

Statistics Interlibrary Loans

Sep VDX Lake King Requests received 3

VDX Responded to other Library requests 1

Lake King Library Statistics												
Issues and Renewals	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010												
2011												
2012										202	344	182
2013	36	412	353	280	539	399	360	490	391	257	376	268
2014	88	593	559	300	630	252	417	607	502	335	588	338
2015	51	767	743	332	677	649	380	520	614	429	655	297 *
2016	89	798	769	425	426	864	392	393	439	526	715	228
2017	83	646	744	194	444	695	360	867	378	512	666	171
2018	214	493	690	255	690	675	364	808	434	438	524	607
2019	165	561	511	255	652	532	267	763	507	388	574	200
2020	80	775	451	22	622	565	346	523	481	336	463	240
2021	76	455	376	224	336	258	275	310	336			

Newdegate Library Report to September 30th, 2021

The library has been very quiet over the school holiday period. The latest exchange of 26 new items has been processed and put on the library shelves.

In September the open plan Library area has been used for Pilates twice a week, Newdegate Primary School P & C meetings, School Council meetings and Newdegate Primary School Assemblies.

Inter library loans for September:

4 items sent to other Libraries as requested

Newdegate Library Statistics												
Issued and Renewals	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2005	12	45	37	21	46	33	4	16	6	15	15	14
2006	21	21	27	7	21	22	14	34	27	6	20	15
2007	17	16	24	3	24	32	15	39	25	19	19	4
2008	9	30	15	14	33	14	6	16	9	20	17	8
2009	2	23	20	15	25	28	12	15	10	17	15	8
2010	3	13	16	14	13	23	28	26	27	26	35	27
2011	5	37	52	27	77	54	22	42	35	76	72	38
2012	10	69	33	27	50	20	49	18	26	54	59	31
2013	8	34	30	20	30	21	36	28	18	27	36	29
2014	39	50	35	33	53	36	61	29	24	61	32	47
2015	23	50	52	58	62	53	42	59	45	38	88	38
2016	17	77	29	45	42	15	53	39	43	43	65	42
2017	26	55	40	43	29	29	40	13	29	39	29	28
2018	9	37	15	30	19	36	33	18	51	30	66	48
2019	31	26	54	34	33	39	29	34	7	43	35	33
2020	6	33	42	2	12	23	27	24	39	54	21	16
2021	17	36	51	53	22	32	25	31	38			



PHEOC BULLETIN #81

Tuesday 28 September 2021 14:00 Hours

This bulletin has been authorised by the PHEOC Coordinator, Dr Revle Bangor-Jones

COVID-19 case and vaccination numbers

- **Summary:** as of **Tuesday 28 September**, in Western Australia (WA), there have been:
 - **1,096** confirmed cases of COVID-19 notified
 - 103 historical cases of COVID-19 notified
 - 1,080 people recovered from COVID-19
 - **1,759,607** COVID-19 tests conducted
- **WA:** [Daily snapshot & Vaccination dashboard](#)
- **National:** [Current National Status & Australia's vaccine roll-out](#)
- **Worldwide:** [WHO Situation Reports & WHO Dashboard](#)

Living with COVID

Chief Health Officer advice

The latest advice from the Chief Health Officer is available [here](#).

- [13 September 2021 - Access to Pfizer vaccination for people greater than 60 years of age](#)

NSW truck driver

WA Health was notified by New South Wales (NSW) Health that a truck driver tested positive to COVID-19. The truck driver was from NSW and was in WA from 16 to 18 September 2021. All close and casual contacts linked to this case have tested negative to COVID-19.

People who attended a public [exposure site](#) should get [tested](#) immediately and isolate until they receive a negative result, unless otherwise advised by the Department of Health.

Refer to the [announcement](#) and the [media release](#) for additional information.

Victoria

As of 12.01am 29 September 2021, Victoria will transition from a 'high risk' to 'extreme risk' jurisdiction under the [controlled border](#) arrangement.

Under the 'extreme risk' category travel from or via Victoria to WA will not be permitted unless approved under the strictest of conditions. Under this category, the exemptions for approved travellers are restricted to Commonwealth and State officials, Members of Parliament, Diplomats and specialist or extraordinary circumstances determined by the State Emergency Coordinator or the Chief Health Officer. Unless otherwise advised, approved travellers must:

- undertake mandatory hotel quarantine at a State quarantine facility for 14 days at their own expense
- undergo COVID-19 testing on days 1, 5 and 13
- have returned a negative COVID-19 PCR test in the past 72 hours
- have receipt of at least one dose of COVID-19 vaccine, if eligible.

Refer to the [announcement](#) and [media statement](#) for additional information.

Asymptomatic testing of taxi and ride share drivers

Any taxi or ride share driver without symptoms who transports people from the Perth domestic airport or to/from a COVID testing facility is now eligible to receive free COVID-19 testing as part of the [DETECT Borders](#) surveillance program. The program has been extended to offer peace of mind to drivers and to strengthen Western Australia's existing surveillance measures.

Those eligible under the voluntary Detect Borders program can receive asymptomatic testing at [public COVID Clinics](#) and can continue with any usual activities while waiting for their test results.

Refer to the [announcement](#) for additional information.

RACF worker and HCW access exemptions

Supporting [documents](#) to the *Residential Aged Care Facility Worker Access Directions (No 2)* have been released. They include an exemption guideline and the application forms for temporary exemptions. Similar documents have been [released](#) regarding the *Health Worker (Restrictions on Access) Directions (No 3)*.

Local Government Contact Register compliance – reporting changes

Environmental Health Officers (EHOs) are responsible for conducting compliance checks on all relevant premises, as per the *Contact Register Directions (No.2)*, as part of the current State of Emergency, COVID-19 pandemic. Returns of actions undertaken by EHOs as authorised officers are required to be submitted on a weekly basis. Currently, this is achieved by an email.

A web form has been developed, which will allow EHOs to submit their statistics via a weblink, rather than email. This will:

- streamline reporting for all EHO and LGAs
- ensure all reports received provide standardised information
- improve accuracy of reporting
- reduce administration time.

Access to the web form will be provided directly to authorised EHOs.

Jurisdiction risk rating

New South Wales is considered 'extreme risk'. Victoria is considered 'high risk'. Australian Capital Territory is considered 'medium risk'. Queensland is considered 'low risk'. South Australia, Northern Territory and Tasmania are considered 'very low risk'. New Zealand is no longer a jurisdiction in WA's controlled border. For more information on WA's border arrangement, see the WA Government's controlled border [webpage](#).

Community

Continuing COVID safe practices

Businesses and patrons are reminded to be vigilant with [COVID safe practices](#) despite there being no instances of COVID-19 community transmission.

Businesses should refer to trusted sources (see the [Business and industry](#) section below), when reviewing COVID Safety Plans (see the [COVID Safe Guidelines](#)), company website and social media accounts to ensure they include the most up to date advice. Consider utilising the visual [resources](#) and fact sheets (including [translated](#) resources) available to remind staff and patrons how to protect against COVID-19. Strategies include:

- physically distance
- stay home and get tested if unwell
- perform regular hand hygiene
- receive a COVID-19 vaccination

- sign into [SafeWA](#) or a manual contact register upon entering a premises.

Encourage [contact register](#) use by displaying SafeWA QR codes in prominent places and clearly advise where the manual contact register is held. This is a vital step to ensure the Public Health team can promptly trace contacts if COVID-19 is identified in the community.

COVID-19 vaccination program

Royal Show walk-in vaccination clinic

All eligible Western Australians from 12 years and up can drop in and receive a Pfizer COVID-19 vaccination at the Perth Royal Show this week, without needing an appointment. In addition to the walk-in clinic, an information, education and booking hub - the 'Roll up for WA' building – has been set up behind Amherst Farm within the showgrounds. Staff are on hand to talk people through the vaccination process.

Mandatory vaccination of 'at risk' transport, freight and logistics workers

On 24 September 2021 the Premier [announced](#) changes to emergency management directions to enforce mandatory vaccination for transport, freight and logistics workers travelling from or through 'high' or 'extreme' risk jurisdictions to enter Western Australia. From 24 October, these directions will apply to freight truck drivers, pilot/support vehicle drivers, removalists, rail drivers and rail support crew, where these employees are required to travel from or through a 'high' or an 'extreme' risk jurisdiction for work.

Updated ATAGI statement on additional COVID-19 vaccine doses

On 23 September 2021 the Australian Technical Advisory Group on Immunisation (ATAGI) released a [statement](#) advising that two doses of any of the vaccines available in Australia provides strong protection against COVID-19.

Advice on the need for third doses to people who have conditions that compromise their immune system is anticipated in the next few weeks.

ATAGI anticipates that additional booster doses for other populations may be required in the future. Additional doses are currently being considered but no recommendation has yet been made for the general population.

School-based vaccination program announced

On the 17 September 2021 the state government [announced](#) that the COVID-19 vaccination school based program will begin in week 1 of term 4. The rolling school-based vaccination program for students aged 12 and above and school staff will begin at around 20 schools across WA next month. Priority schools will include residential, agricultural and boarding colleges, and education support settings. During the school holidays, walk-in opportunities will be available at clinics in Midland, Kwinana and the city centre, as well as Joondalup and Claremont. School staff are also able to access the dedicated vaccination slots without an appointment after school hours and during the school holidays. Bookings can be made at [VaccinateWA](#) or by calling 13COVID (13 268 43).

Vaccination of residential aged care facility workers now mandatory

The vaccination of residential aged care workers became mandatory on the 17 September. Currently approximately 98% of residential aged care workers are vaccinated. Further information for residential aged care worker is available in the [frequently asked questions](#).

Moderna COVID-19 vaccine available at selected pharmacies

On 22 September the Minister for Health [announced](#) that the Spikevax (Moderna) COVID-19 vaccine will be available in participating community pharmacies from this week.

People aged 12 and over will be eligible to receive the Spikevax (Moderna) vaccine. To find a participating pharmacy please visit the Australian Government's [Vaccine Clinic Finder](#) or [findapharmacy](#).

Community clinics

In the coming weeks, regional pop-up clinics will be available for walk-ins in the following locations: Kalgoorlie, Norseman, Albany, Broome, Derby, Kununurra, Wyndham, Halls Creek, Geraldton, Newman and Port Hedland. Visit the [COVID-19 vaccine](#) webpage for a list of these clinics and their opening times

Existing [Community clinics](#) in WA include Midland, Perth Convention and Exhibition Centre, Claremont Showgrounds, Joondalup, Kwinana, and Bunbury.

The Comirnaty (Pfizer) COVID-19 vaccine is now being rolled out to, and administered by, GPs in WA. Approved pharmacies can also now administer the **Spikevax (Moderna)** and AstraZeneca COVID-19 **vaccines** for eligible populations. Participating GPs and pharmacies can be found by using the COVID-19 [Vaccine Clinic Finder](#).

Vaccine information and resources

Please visit the sources below for more information and resources related to vaccines:

- Requests for [alternative COVID-19 vaccine](#)
- HealthyWA - [COVID-19 Vaccine](#) (for WA community) including [FAQs](#)
- WA Health - [COVID-19 Vaccination Program](#) (for WA health providers)
- Small Business Development Corporation (SBDC) - workplace [information](#) about the COVID-19 vaccine FAQs (general information for businesses and employers)
- The Australian Government - [COVID-19 Vaccines hub](#)
- [Rollup for WA](#) and [Rollup for WA posters](#)
- KAMS - [Get vaccinated against COVID-19 TVC Campaign](#)

Directions updates

COVID-19 State of Emergency [Declarations](#) and community [advice](#) summarises the latest COVID-19 Directions that are in place in WA. Further information can be found on WA Government [website](#).

New Directions

[Authorisation by the State Emergency Coordinator](#)

[Chief Health Officer Approved Form of Evidence of COVID-19 Vaccination Under Paragraph 7 of the Access to Quarantine Centres Directions \(No 2\)](#)

[Restatement of Approvals and Authorisations Directions](#)

[Transport, Freight and Logistics Directions \(No 5\)](#)

[Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#)

[Authorisation \(No 5\) to Supply or Prescribe a Poison](#)

[Health Worker \(Restrictions on Access\) Directions \(No 3\) \(and supporting documents\)](#)

[WA Police Mission Critical Areas \(Restrictions on Access\) Directions \(No 3\)](#)

[Authorisation \(No 4\) to Supply or Prescribe a Poison](#)

[Chief Health Officer Approved Form of Evidence of Covid-19 Vaccination for the Purposes of Paragraph 9 of the Health Worker \(Restrictions on Access\) Directions \(No 2\)](#)

[Transport and Accommodation Services \(Exposed Maritime Worker\) Directions \(No 2\)](#)

[Rig or Platform Crew Member Directions \(No 2\)](#)

[Maritime Crew Member Directions \(No 2\)](#)

[Exposed On-Board Worker Directions \(No 2\)](#)

Updated fact sheets

[Clinician Alert #67](#)

[Process to Transition the Status of a Vessel from Exposed to Unexposed in WA \(New\)](#)

[COVID-19 Preparation and Response Guidelines for Industrial Facilities \(New\)](#)

[Voluntary Asymptomatic COVID-19 Testing for Workers in Health Care Facilities \(New\)](#)

[Aboriginal Sector Communication Update #27](#)

[Cleaning principles for staff in State-quarantine facilities](#)

[Quarantine after being tested: High-risk and low-risk tested persons \(New\)](#)

[Infection Prevention and Control Advice for Environmental Cleaning in Non-Healthcare Settings \(Home and Workplace\) Version 7](#)

[Clinician Alert #66](#)

Testing

General population [testing criteria](#)

Any person may be tested if they have any one of the following clinical criteria: fever ($\geq 37.5^{\circ}\text{C}$) OR history of fever (e.g. night sweats, chills), without a known source **OR** acute respiratory symptoms (e.g. shortness of breath, cough, sore throat, runny nose) **OR** acute loss of smell or taste.

Testing locations

Testing locations are listed on [HealthyWA](#).

Reporting

Notify suspected COVID-19 cases by completing the notification form either [ONLINE](#) or by printing out the notification form.

Series of National Guidelines (SoNG)

The [latest](#) iteration was released on 7 September 2021.

Australian Health Protection Principal Committee (AHPPC)

The [Australian Health Protection Principal Committee \(AHPPC\)](#) is the key decision-making committee for health emergencies. It is comprised of all state and territory Chief Health Officers and is chaired by the Australian Chief Medical Officer. The AHPPC has an ongoing role to advise the Australian Health Ministers' Advisory Council (AHMAC) on health protection matters and national priorities. AHPPC is also tasked with the role of mitigating emerging health threats related to infectious diseases, the environment as well as natural and human made disasters.

Business and industry

Resources for more information

- [WA Department of Health](#) and [HealthyWA](#)
- [Department of Health Media Releases](#)
- [Australian Government Health Department](#)
- [Advice for the public \(WHO\)](#)
- [Advice in other languages](#) and [Translated Resources](#)
- [Advice for Aboriginal people](#)
- [Covid Clinic walkthrough](#) – in multiple languages
- [Contact register](#) information
- [SafeWA user guide](#)

Who to contact for more information

- COVID-19 Clinic ONLY Test Results Enquiry Line: 1800 313 223 (Note: NOT for GP referred testing or private pathology clinic tests)
- COVID-19 WA Public Information Line: 132 6843 (13 COVID)
- COVID-19 Travel Restrictions Exemption Application: Visit the [G2G PASS](#) website
- COVID-19 WA Police Line: 131 444 To report breaches of: self-quarantine, business activities, border controls and other State of Emergency Directions

Next advice - The PHEOC Bulletin is issued weekly. Next issue: **Tuesday 5 October 2021**.

Last updated 28 September 2021

This document can be made available in alternative formats on request for a person with disability.

© Department of Health 2021



PHEOC BULLETIN #82

Tuesday 5 October 2021 14:00 Hours

This bulletin has been authorised by the PHEOC Coordinator, Dr Revle Bangor-Jones

COVID-19 case and vaccination numbers

- **Summary:** as of **Tuesday 5 October**, in Western Australia (WA), there have been:
 - **1,110** confirmed cases of COVID-19 notified
 - **104** historical cases of COVID-19 notified
 - **1,085** people recovered from COVID-19
 - **1,784,983** COVID-19 tests conducted
- **WA:** [Daily snapshot & Vaccination dashboard](#)
- **National:** [Current National Status & Australia's vaccine roll-out](#)
- **Worldwide:** [WHO Situation Reports & WHO Dashboard](#)

Living with COVID

Chief Health Officer advice

The latest advice from the Chief Health Officer is available [here](#).

Adelaide exposure site

South Australia listed Adelaide Airport as an [exposure location](#) after a traveller from Victoria tested positive to COVID-19.

Passengers on Virgin flight VA722 from Adelaide to Perth on 1 October fall into the exposure timeframe at Adelaide Airport. All travellers were instructed to be tested and isolate until they receive a negative result, unless directly advised otherwise by the Department of Health.

Refer to the [announcement](#) for additional information.

Australian diplomat case

An Australian diplomat tested positive to COVID-19 and was, along with his family, transferred to a State Quarantine Facility on Saturday, 2 October 2021. The family were in a serviced apartment in Northbridge undertaking self-quarantine following travel. One of his travelling party has since returned a positive test result.

Contact tracing identified 50 close and casual contacts. So far, 41 have tested negative to COVID-19 with eight results pending. All contacts will remain in self-quarantine for 14 days and are being managed by WA Health public health officials.

Refer to the [media release](#) for additional information.

Industry restriction on access directions

Various high risk industry groups are subject to directions which restrict the access of certain workers unless they have been vaccinated against COVID-19. Supporting [documents to the Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#) and [WA Police Mission Critical Areas \(Restrictions on Access\) Directions \(No 3\)](#) have been released on [WA.gov.au](#). These documents include an exemption guideline and the temporary exemptions application forms.

Vessel Management

The oil and chemical tanker the *Stolt Sakura* berthed at Fremantle Port on 2 October 2021 after the captain notified WA Health that 12 out of 22 crew members returned non-negative rapid antigen tests for COVID-19. WA Health officials tested all crew members on 3 October 2021, 12 of which tested positive to COVID-19 by PCR test.

Six crew members were transferred to Fiona Stanley Hospital; two of them are in ICU. One crew member was transferred to hotel quarantine to allow for additional monitoring.

WA Health is continuing to work with the vessel and key maritime stakeholders regarding its ongoing management.

Refer to the [media release](#) for additional information.

Victoria

As of 12.01am 29 September 2021, Victoria **transitioned to an** 'extreme risk' jurisdiction under the [controlled border](#) arrangement. Unless otherwise advised, approved travellers must:

- undertake mandatory hotel quarantine at a State quarantine facility for 14 days at their own expense
- undergo COVID-19 testing on days 1, 5 and 13
- have returned a negative COVID-19 PCR test in the past 72 hours
- have receipt of at least one dose of COVID-19 vaccine.

Refer to the [announcement](#) and [media statement](#) for additional information.

Jurisdiction risk rating

New South Wales **and Victoria are** considered 'extreme risk'. Australian Capital Territory is considered 'medium risk'. Queensland is considered 'low risk'. South Australia, Northern Territory and Tasmania are considered 'very low risk'. New Zealand is no longer a jurisdiction in WA's controlled border. For more information on WA's border arrangement, see the WA Government's controlled border [webpage](#).

Community

Taxi and rideshare

Taxi and Rideshare COVID safe documents have been published by the WA Department of Health for [drivers](#) and [passengers](#). The documents use simple language and icons to illustrate what practices should be followed in a taxi or rideshare vehicle to minimise the risk to both drivers and passengers. The resources include what precautions should be followed if the passenger is in quarantine or travelling for COVID-19 testing.

COVID-19 vaccination program

FIFO and local resource sector worker vaccination

Fly-in fly-out (FIFO) and local workers on WA mining and resources sites and people who work in remote operations or run critical infrastructure, including remote train and port control, must be vaccinated with at least the first dose of an approved COVID-19 vaccine to attend their workplace from 1 December 2021. These workers will need to be fully vaccinated by 1 January 2022. Vaccination has been mandated for these workers to address the risks posed by movement of resources sector workers, including those working in mining and oil and petroleum operations, to and from regional and remote locations in WA.

Refer to the [announcement](#) for additional information.

Health care workers and support workers

Health care workers and health support workers in Tier 1 facilities were required to have their first dose of a COVID-19 vaccine by 1 October 2021 in accordance with the staged approach in the Health Worker (Restriction on Access) [Directions](#). Further information on the Directions for health care and health support workers can be viewed at the [WA Health website](#).

Port worker vaccination

Certain port workers will soon be [required](#) to have received a [COVID-19 vaccine](#) before they can undertake certain roles on vessels that are exposed to COVID-19. These requirements will be introduced in a staged approach to minimise the impact on port activities. As of 12 October 2021, relevant workers are required to have received their first dose to access an exposed vessel and must be fully vaccinated by 12 November 2021.

Refer to the [announcement](#) for additional information.

Mandatory vaccination of 'at risk' transport, freight and logistics workers

On 24 September 2021 the Premier [announced](#) changes to emergency management directions to enforce mandatory vaccination for transport, freight and logistics workers travelling from or through 'high' or 'extreme' risk jurisdictions to enter Western Australia. From 24 October, these directions will apply to freight truck drivers, pilot/support vehicle drivers, removalists, rail drivers and rail support crew, where these employees are required to travel from or through a 'high' or an 'extreme' risk jurisdiction for work.

Updated ATAGI statement on additional COVID-19 vaccine doses

On 23 September 2021 the Australian Technical Advisory Group on Immunisation (ATAGI) released a [statement](#) advising that two doses of any of the vaccines available in Australia provides strong protection against COVID-19.

Advice on the need for third doses to people who have conditions that compromise their immune system is anticipated in the next few weeks.

ATAGI anticipates that additional booster doses for other populations may be required in the future. Additional doses are currently being considered but no recommendation has yet been made for the general population.

Community clinics

In the coming weeks, regional pop-up clinics will be available for walk-ins in the following locations: Kalgoorlie, Norseman, Albany, Broome, Derby, Kununurra, Wyndham, Halls Creek, Geraldton, Newman and Port Hedland. Visit the [COVID-19 vaccine](#) webpage for a list of these clinics and their opening times

Existing [Community clinics](#) in WA include Midland, Perth Convention and Exhibition Centre, Claremont Showgrounds, Joondalup, Kwinana, and Bunbury.

The Comirnaty (Pfizer) COVID-19 vaccine is now being rolled out to, and administered by, GPs in WA. Approved pharmacies can also now administer the Spikevax (Moderna) and AstraZeneca COVID-19 vaccines for eligible populations. Participating GPs and pharmacies can be found by using the COVID-19 [Vaccine Clinic Finder](#).

Vaccine information and resources

Please visit the sources below for more information and resources related to vaccines:

- Requests for [alternative COVID-19 vaccine](#)
- HealthyWA - [COVID-19 Vaccine](#) (for WA community) including [FAQs](#)
- WA Health - [COVID-19 Vaccination Program](#) (for WA health providers)

- Small Business Development Corporation (SBDC) - workplace [information](#) about the COVID-19 vaccine FAQs (general information for businesses and employers)
- The Australian Government - [COVID-19 Vaccines hub](#)
- [Rollup for WA](#) and [Rollup for WA posters](#)
- KAMS - [Get vaccinated against COVID-19 TVC Campaign](#)

Directions updates

COVID-19 State of Emergency [Declarations](#) and community [advice](#) summarises the latest COVID-19 Directions that are in place in WA. Further information can be found on WA Government [website](#).

New Directions

[Chief Health Officer Approved Form of Evidence of Covid-19 Vaccination Under Paragraph 9 of the Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#)

[Chief Health Officer Approved Form of Evidence of Covid-19 Vaccination Under Paragraph 7 of the WA Police Mission Critical Areas \(Restrictions on Access\) Directions \(No 3\)](#)

[Authorisation of persons for the purposes of paragraph \(d\), row 6, column 3 of the table set out in schedule 1](#)

[Controlled Border for Western Australia Amendment Directions \(No 43\)](#)

[Exposure Sites \(Outside of Western Australia\) Directions \(No 2\)](#)

[Outbreak Outside of Western Australia Response Directions \(No 9\)](#)

[Authorisation by the State Emergency Coordinator](#)

[Chief Health Officer Approved Form of Evidence of COVID-19 Vaccination Under Paragraph 7 of the Access to Quarantine Centres Directions \(No 2\)](#)

[Restatement of Approvals and Authorisations Directions](#)

[Transport, Freight and Logistics Directions \(No 5\)](#)

[Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#)

[Authorisation \(No 5\) to Supply or Prescribe a Poison](#)

[Health Worker \(Restrictions on Access\) Directions \(No 3\) \(and supporting documents\)](#)

[WA Police Mission Critical Areas \(Restrictions on Access\) Directions \(No 3\) \(and supporting documents\)](#)

Updated fact sheets

[Information for Taxi and Rideshare Passengers – Stay COVID safe on your ride \(New\)](#)

[Information for Taxi and Rideshare Drivers – Stay COVID Safe \(New\)](#)

[Infection Prevention and Control Guidelines for Healthcare Teams in State Quarantine Facilities Version 8](#)

[Advice for Use of Personal Protective Equipment for Non-Healthcare Workers in Community Settings Version 6](#)

[Clinician Alert #67](#)

[Process to Transition the Status of a Vessel from Exposed to Unexposed in WA \(New\)](#)

[COVID-19 Preparation and Response Guidelines for Industrial Facilities \(New\)](#)

[Voluntary Asymptomatic COVID-19 Testing for Workers in Health Care Facilities \(New\)](#)

[Aboriginal Sector Communication Update #27](#)

[Cleaning principles for staff in State-quarantine facilities](#)

[Quarantine after being tested: High-risk and low-risk tested persons \(New\)](#)

Testing

General population [testing criteria](#)

Any person may be tested if they have any one of the following clinical criteria: fever ($\geq 37.5^{\circ}\text{C}$) OR history of fever (e.g. night sweats, chills), without a known source **OR** acute respiratory symptoms (e.g. shortness of breath, cough, sore throat, runny nose) **OR** acute loss of smell or taste.

Testing locations

Testing locations are listed on [HealthyWA](#).

Reporting

Notify suspected COVID-19 cases by completing the notification form either [ONLINE](#) or by printing out the notification form.

Series of National Guidelines (SoNG)

The [latest](#) iteration was released on 7 September 2021.

Australian Health Protection Principal Committee (AHPPC)

The [Australian Health Protection Principal Committee \(AHPPC\)](#) is the key decision-making committee for health emergencies. It is comprised of all state and territory Chief Health Officers and is chaired by the Australian Chief Medical Officer. The AHPPC has an ongoing role to advise the Australian Health Ministers' Advisory Council (AHMAC) on health protection matters and national priorities. AHPPC is also tasked with the role of mitigating emerging health threats related to infectious diseases, the environment as well as natural and human made disasters. **AHPPC has recently released the following statements:**

- [1 October 2021](#) – Statement on visitation in residential aged care facilities
- [1 October 2021](#) – Statement on mandatory vaccination of all workers in health care settings
- [1 October 2021](#) – Statement on the role of ventilation in reducing the risk of transmission of COVID-19
- [1 October 2021](#) – Statement on COVID-19, schools and reopening Australia

Business and industry

Resources for more information

- [WA Department of Health and HealthyWA](#)
- [Department of Health Media Releases](#)
- [Australian Government Health Department](#)
- [Advice for the public \(WHO\)](#)
- [Advice in other languages](#) and [Translated Resources](#)
- [Advice for Aboriginal people](#)
- [Covid Clinic walkthrough](#) – in multiple languages
- [Contact register](#) information
- SafeWA [user guide](#)

Who to contact for more information

- COVID-19 Clinic ONLY Test Results Enquiry Line: 1800 313 223 (Note: NOT for GP referred testing or private pathology clinic tests)
- COVID-19 WA Public Information Line: 132 6843 (13 COVID)
- COVID-19 Travel Restrictions Exemption Application: Visit the [G2G PASS](#) website
- COVID-19 WA Police Line: 131 444 To report breaches of: self-quarantine, business activities, border controls and other State of Emergency Directions

Next advice - The PHEOC Bulletin is issued weekly. Next issue: **Tuesday 12 October 2021**.

Last updated **5 October 2021**

This document can be made available in alternative formats on request for a person with disability.

© Department of Health 2021

health.wa.gov.au



PHEOC BULLETIN #83

Tuesday 12 October 2021 14:00 Hours

This bulletin has been authorised by the PHEOC Coordinator, Dr Revle Bangor-Jones

COVID-19 case and vaccination numbers

- **Summary:** as of **Tuesday 12 October**, in Western Australia (WA), there have been:
 - **1,111** confirmed cases of COVID-19 notified
 - **106** historical cases of COVID-19 notified
 - **1,086** people recovered from COVID-19
 - **1,808,611** COVID-19 tests conducted
- **WA:** [Daily snapshot & Vaccination dashboard](#)
- **National:** [Current National Status & Australia's vaccine roll-out](#)
- **Worldwide:** [WHO Situation Reports & WHO Dashboard](#)

Living with COVID

Chief Health Officer advice

The latest advice from the Chief Health Officer is available [here](#).

- [Mandatory vaccination of health staff - 8 October 2021](#)
- [Mandatory vaccination for the resources industry - 5 October 2021](#)
- [Mandatory vaccination for school leavers event - 5 October 2021](#)

WA exposure sites

WA Health was notified on 10 October of a truck driver who returned a positive COVID-19 test in Victoria on 5 October 2021. The driver was in WA between 30 September and 3 October and was potentially infectious during this time. The risk to the public is considered low.

A list of public exposure sites and corresponding health advice is available at [HealthyWA](#).

Refer to the [initial](#) and [latest](#) announcements for additional information.

New CDNA work restrictions framework

New advice from the Communicable Diseases Network Australia (CDNA) has been released providing a framework to inform decision making for work permissions and restrictions for health care workers after a COVID-19 exposure in a health care setting in the context of an outbreak and community transmission. Refer to [Clinician Alert #68](#) for additional information.

Adelaide exposure site

South Australia listed Adelaide Airport as an [exposure location](#) after a traveller from Victoria tested positive to COVID-19. Passengers on Virgin flight VA722 from Adelaide to Perth on 1 October fall into the exposure timeframe at Adelaide Airport. **All contacts of the case on this flight have returned a negative COVID-19 test.**

Refer to the [initial](#) and [latest](#) announcements for additional information.

Australian diplomat case

An Australian diplomat tested positive to COVID-19 and was, transferred along with his family, to a State Quarantine Facility on Saturday, 2 October 2021.

Contact tracing identified 50 close and casual contacts **including one family member who tested positive to COVID-19. All other contacts continue to test negative for COVID-19.**

Refer to the [latest media release](#) for additional information.

Industry restriction on access directions

Various high risk industry groups are subject to directions which restrict the access of certain workers unless they have been vaccinated against COVID-19.

Supporting [documents](#) to the [Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#) and [WA Police Mission Critical Areas \(Restrictions on Access\) Directions \(No 3\)](#) have been released on WA.gov.au. These documents include an exemption guideline and the temporary exemptions application forms.

Vessel Management

The oil and chemical tanker the *Stolt Sakura* berthed at Fremantle Port on 2 October 2021 after the captain notified WA Health that 12 out of 22 crew members returned non-negative rapid antigen tests for COVID-19. WA Health officials tested all crew members on 3 October 2021, 12 of which tested positive to COVID-19 by PCR test.

WA Health is continuing to work with the vessel and key maritime stakeholders regarding its ongoing management.

Refer to the [latest media release](#) for additional information.

Jurisdiction risk rating

New South Wales and Victoria are considered 'extreme risk'. Australian Capital Territory is considered 'medium risk'. Queensland is considered 'low risk'. South Australia, Northern Territory and Tasmania are considered 'very low risk'. For more information on WA's border arrangement, see the WA Government's controlled border [webpage](#).

Community

Taxi and rideshare

Taxi and Rideshare COVID safe documents have been published by the WA Department of Health for [drivers](#) and [passengers](#). The documents use simple language and icons to illustrate what practices should be followed in a taxi or rideshare vehicle to minimise the risk to both drivers and passengers. The resources include what precautions should be followed if the passenger is in quarantine or travelling for COVID-19 testing.

COVID-19 vaccination program

Primary and community health workers

Primary and community health workers must have at least their first dose of a COVID-19 vaccine to access their workplace from the 1 November 2021. The deadline to be fully vaccinated will be 1 December 2021. This workforce will include approximately 10,000 staff in private provider facilities including general practitioners, private nurse offices and consulting offices, pharmacies, dental centres, allied health facilities and private pathology centres. Health workers in community settings work closely with vulnerable groups, including the elderly and those with chronic disease or who are immunocompromised and are at increased risk of serious complications from COVID-19 infection.

Refer to the [announcement](#) for additional information.

Third dose for severely immunocompromised

The Australian Technical Advisory Group on Immunisation (ATAGI) recently released new [recommendations](#) on the use of a third primary dose of COVID-19 vaccine in individuals who are severely immunocompromised. Individuals are encouraged to discuss the need for a third dose with a GP or treating specialist who best understands their health history.

Additional vaccination clinics and walk-ins

A new COVID-19 vaccination clinic at Perth Airport opened on Monday 11 October 2021 to accelerate COVID-19 vaccinations among resource sector workers. The airport vaccination clinic is open weekdays between 10am and 8pm for anyone working in the sector, whether they work for Rio Tinto or another company. Additional pop-up vaccination clinics are to open across Perth in the coming weeks including, Armadale Central Shopping Centre and Mirrabooka Square Shopping Centre, from Monday 18 October 2021. The Claremont and Joondalup vaccination clinics are now open for people to attend without an appointment. Some regional clinics also offer the opportunity to be vaccinated without appointments, however bookings are always recommended.

Refer to the [announcement](#) for additional information.

FIFO and local resource sector worker vaccination

Fly-in fly-out (FIFO) and local workers on WA mining and resources sites and people who work in remote operations or run critical infrastructure, including remote train and port control, must be vaccinated with at least the first dose of an approved COVID-19 vaccine to attend their workplace from 1 December 2021. These workers will need to be fully vaccinated by 1 January 2022. Vaccination has been mandated for these workers to address the risks posed by movement of resources sector workers, including those working in mining and oil and petroleum operations, to and from regional and remote locations in WA.

Refer to the [announcement](#) for additional information.

Health care workers and support workers

Health care workers and health support workers in Tier 1 facilities were required to have their first dose of a COVID-19 vaccine by 1 October 2021 in accordance with the staged approach in the Health Worker (Restriction on Access) [Directions](#). Further information on the Directions for health care and health support workers can be viewed at the [WA Health website](#).

Port worker vaccination

Certain port workers will soon be [required](#) to have received a [COVID-19 vaccine](#) before they can undertake certain roles on vessels that are exposed to COVID-19. These requirements will be introduced in a staged approach to minimise the impact on port activities. As of 12 October 2021, relevant workers are required to have received their first dose to access an exposed vessel and must be fully vaccinated by 12 November 2021.

Refer to the [announcement](#) for additional information.

Community vaccination clinics

In the coming weeks, regional pop-up vaccination clinics will be available for walk-ins in the following locations: Kalgoorlie, Norseman, Albany, Broome, Derby, Kununurra, Wyndham, Halls Creek, Geraldton, Newman and Port Hedland. Visit the [COVID-19 vaccine](#) webpage for a list of these clinics and their opening times

Existing [Community vaccination clinics](#) in WA include Midland, Perth Convention and Exhibition Centre, Claremont Showgrounds, Joondalup, Kwinana, and Bunbury.

The Comirnaty (Pfizer) COVID-19 vaccine is now being rolled out to, and administered by, GPs in WA. Approved pharmacies can also now administer the Spikevax (Moderna) and AstraZeneca COVID-19 vaccines for eligible populations. Participating GPs and pharmacies can be found by using the COVID-19 [Vaccine Clinic Finder](#).

Vaccine information and resources

Please visit the sources below for more information and resources related to vaccines:

- Requests for [alternative COVID-19 vaccine](#)
- HealthyWA - [COVID-19 Vaccine](#) (for WA community) including [FAQs](#)
- WA Health - [COVID-19 Vaccination Program](#) (for WA health providers)
- Small Business Development Corporation (SBDC) - workplace [information](#) about the COVID-19 vaccine FAQs (general information for businesses and employers)
- The Australian Government - [COVID-19 Vaccines hub](#)
- [Rollup for WA](#) and [Rollup for WA posters](#)
- KAMS - [Get vaccinated against COVID-19 TVC Campaign](#)

Directions updates

COVID-19 State of Emergency [Declarations](#) and community [advice](#) summarises the latest COVID-19 Directions that are in place in WA. Further information can be found on WA Government [website](#).

New Directions

[Residential Aged Care Facility Worker Access Directions \(No 4\)](#)

[Supporting documents to Health Worker \(Restrictions on Access\) Directions \(No 3\)](#)

[Authorisation to Perform a Function Under Paragraphs 9a and 10b of the Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#)

[Authorisation of Authorised PHEOC Officers](#)

[Chief Health Officer Approved Form of Evidence of Covid-19 Vaccination Under Paragraph 9 of the Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#)

[Chief Health Officer Approved Form of Evidence of Covid-19 Vaccination Under Paragraph 7 of the WA Police Mission Critical Areas \(Restrictions on Access\) Directions \(No 3\)](#)

[Authorisation of persons for the purposes of paragraph \(d\), row 6, column 3 of the table set out in schedule 1](#)

[Controlled Border for Western Australia Amendment Directions \(No 43\)](#)

[Exposure Sites \(Outside of Western Australia\) Directions \(No 2\)](#)

[Outbreak Outside of Western Australia Response Directions \(No 9\)](#)

Updated fact sheets

[Clinician Alert #68 \(New\)](#)

[Aboriginal Sector Communication Update #28 \(New\)](#)

[Fact Sheet for Travellers from a High Risk Jurisdiction \(New\)](#)

[Fact Sheet for Travellers from a Medium Risk Jurisdiction](#)

[Fact Sheet for Travellers from a Low Risk Jurisdiction](#)

[Stay Safe at Work posters](#)

[Process of Approval for Small Cruise Ships to Sail in WA Waters](#)

[Information for Taxi and Rideshare Passengers – Stay COVID safe on your ride \(New\)](#)

[Information for Taxi and Rideshare Drivers – Stay COVID Safe \(New\)](#)

[Infection Prevention and Control Guidelines for Healthcare Teams in State Quarantine Facilities Version 8](#)

[Advice for Use of Personal Protective Equipment for Non-Healthcare Workers in Community Settings Version 6](#)

Testing

General population testing criteria

Any person may be tested if they have any one of the following clinical criteria: fever ($\geq 37.5^{\circ}\text{C}$) OR history of fever (e.g. night sweats, chills), without a known source **OR** acute respiratory symptoms (e.g. shortness of breath, cough, sore throat, runny nose) **OR** acute loss of smell or taste.

Testing locations

Testing locations are listed on [HealthyWA](#).

Reporting

Notify suspected COVID-19 cases by completing the notification form either [ONLINE](#) or by printing out the notification form.

Series of National Guidelines (SoNG)

The latest iteration was released on 8 October 2021.

Australian Health Protection Principal Committee (AHPPC)

The [Australian Health Protection Principal Committee \(AHPPC\)](#) is the key decision-making committee for health emergencies. It is comprised of all state and territory Chief Health Officers and is chaired by the Australian Chief Medical Officer. The AHPPC has an ongoing role to advise the Australian Health Ministers' Advisory Council (AHMAC) on health protection matters and national priorities. AHPPC is also tasked with the role of mitigating emerging health threats related to infectious diseases, the environment as well as natural and human made disasters. AHPPC has recently released the following statements:

- [12 October 2021](#) – [Statement on recommendations for managing COVID-19 health risks](#)
- [1 October 2021](#) – Statement on visitation in residential aged care facilities
- [1 October 2021](#) – Statement on mandatory vaccination of all workers in health care settings
- [1 October 2021](#) – Statement on the role of ventilation in reducing the risk of transmission of COVID-19
- [1 October 2021](#) – Statement on COVID-19, schools and reopening Australia

Business and industry

Resources for more information

- [WA Department of Health and HealthyWA](#)
- [Department of Health Media Releases](#)
- [Australian Government Health Department](#)
- [Advice for the public \(WHO\)](#)
- [Advice in other languages](#) and [Translated Resources](#)
- [Advice for Aboriginal people](#)
- [Covid Clinic walkthrough](#) – in multiple languages
- [Contact register](#) information
- SafeWA [user guide](#)

Who to contact for more information

- COVID-19 Clinic ONLY Test Results Enquiry Line: 1800 313 223 (Note: NOT for GP referred testing or private pathology clinic tests)
- COVID-19 WA Public Information Line: 132 6843 (13 COVID)
- COVID-19 Travel Restrictions Exemption Application: Visit the [G2G PASS](#) website

- COVID-19 WA Police Line: 131 444 To report breaches of: self-quarantine, business activities, border controls and other State of Emergency Directions

Next advice - The PHEOC Bulletin is issued weekly. Next issue: **Tuesday 19 October 2021**.

Last updated 12 October 2021

This document can be made available in alternative formats on request for a person with disability.

© Department of Health 2021



PHEOC BULLETIN #84

Tuesday 19 October 2021 14:00 Hours

This bulletin has been authorised by the PHEOC Coordinator, Dr Revle Bangor-Jones

COVID-19 case and vaccination numbers

- **Summary:** as of **Tuesday 19 October**, in Western Australia (WA), there have been:
 - **1,112** confirmed cases of COVID-19 notified
 - **107** historical cases of COVID-19 notified
 - **1,100** people recovered from COVID-19
 - **1,830,450** COVID-19 tests conducted
- **WA:** [Daily snapshot & Vaccination dashboard](#)
- **National:** [Current National Status & Australia's vaccine roll-out](#)
- **Worldwide:** [WHO Situation Reports & WHO Dashboard](#)

Living with COVID

Chief Health Officer advice

The latest advice from the Chief Health Officer is available [here](#).

- [Mandatory vaccination of health staff](#) - 8 October 2021
- [Mandatory vaccination for the resources industry](#) - 5 October 2021
- [Mandatory vaccination for school leavers event](#) - 5 October 2021

Tasmania health advice

Public health advice was issued on 15 October 2021 after the Tasmania Government released public [exposure sites](#) associated with a positive case of COVID-19 in the community. Anyone who has been at the exposure sites at the specified times must:

- self-quarantine at a suitable premises for 14 days from date of exposure
- be tested within 48 hours and on day 12
- wear a mask when transiting to a self-quarantine premises and presenting for COVID-19 testing.

Anyone who has not been at the listed sites during the specified times is advised to [get tested](#) if they develop any symptoms that may be related to COVID-19.

Refer to the [announcement](#) for additional information.

RAT for drivers

Certain drivers entering WA within 100km of the Eucla and Kununurra border crossing must receive a rapid antigen test (RAT). As of 13 October 2021, drivers entering the state under the [Transport, Freight and Logistics Directions \(No 6\)](#) and who have been in a 'medium,' 'high' or 'extreme' risk jurisdiction in the 14 days before arrival must receive a RAT in addition to the previously outlined requirements under the Directions. Further information can be found at the Transport, Freight and Logistics [page](#) of WA.gov.au.

Queensland

Following the latest public health advice, Queensland will transition from a 'low risk' to 'very low risk' jurisdiction under the [controlled border](#) arrangement at 12:01am, 22 October 2021. Subject to certain criteria, people entering WA from or via Queensland from this time will be permitted to enter WA without the requirement to quarantine.

Refer to the [announcement](#) for additional information.

WA exposure sites

WA Health was notified on 10 October of a truck driver who returned a positive COVID-19 test in Victoria on 5 October 2021. The driver was in WA between 30 September and 3 October and was potentially infectious during this time. **All close contacts have completed 14 days of self-quarantine.**

A list of public exposure sites and corresponding health advice is available at [HealthyWA](#).

Refer to the [initial](#) and [latest](#) announcements for additional information.

New CDNA work restrictions framework

New advice from the Communicable Diseases Network Australia (CDNA) has been released providing a framework to inform decision making for work permissions and restrictions for health care workers after a COVID-19 exposure in a health care setting in the context of an outbreak and community transmission. Refer to [Clinician Alert #68](#) for additional information.

Jurisdiction risk rating

New South Wales and Victoria are considered 'extreme risk'. Australian Capital Territory is considered 'medium risk'. Queensland is considered 'low risk'. South Australia, Northern Territory and Tasmania are considered 'very low risk'. For more information on WA's border arrangement, see the WA Government's controlled border [webpage](#).

COVID-19 vaccination program

New vaccination clinics in Armadale and Mirrabooka

Two new State-run vaccination clinics have been opened in [Armadale](#) and [Mirrabooka](#) giving local residents another opportunity to get vaccinated against COVID-19. Bookings are not required.

Armadale: Armadale Central Shopping Centre, 10 Orchard Avenue, Armadale. Opening times are 10am to 4.30pm on Monday, Tuesday, Wednesday, Friday and Saturday; 10am to 7pm on Thursday; and 11am to 4.30pm on Sunday.

An Aboriginal Family Day will also be held at the Armadale clinic on Saturday, 23 October, where all Aboriginal people aged 12 years and above will be welcomed to the clinic with a Welcome to Country, food and other activities provided.

Mirrabooka: The Square Mirrabooka, 43 Yirrigan Drive, Mirrabooka. Opening times are 9am to 4.30pm on Monday to Wednesday, 9am to 7pm on Thursday and 11am to 4.30pm on Sunday. While bookings are preferred, individuals are welcome to attend the clinic without an appointment.

A second pop-up clinic will open at the Herb Graham Recreation Centre in Mirrabooka for two days a week from 25 October.

Primary and community health workers

Primary and community health workers must have at least their first dose of a COVID-19 vaccine to access their workplace from the 1 November 2021. The deadline to be fully vaccinated will be 1

December 2021. This workforce will include approximately 10,000 staff in private provider facilities including general practitioners, private nurse offices and consulting offices, pharmacies, dental centres, allied health facilities and private pathology centres. Health workers in community settings work closely with vulnerable groups, including the elderly and those with chronic disease or who are immunocompromised and are at increased risk of serious complications from COVID-19 infection.

Refer to the [announcement](#) for additional information

Third dose for severely immunocompromised

The Australian Technical Advisory Group on Immunisation (ATAGI) recently released new [recommendations](#) on the use of a third primary dose of COVID-19 vaccine in individuals who are severely immunocompromised. Individuals are encouraged to discuss the need for a third dose with a GP or treating specialist who best understands your health history.

For eligible people wanting to receive a third dose at a State-run community vaccination clinic you will need to provide proof of eligibility (i.e. the immunocompromised condition). For more information about how to show evidence of eligibility visit the Australian Government [website](#). At this point in time it is not possible to book via VaccinateWA or 13COVID for your third dose. As such, please just attend the clinic without an appointment and staff will ensure eligible people are able to receive their third dose vaccination.

Additional clinics and walk-ins

The new COVID-19 vaccination clinic at Perth Airport opened on Monday 11 October to accelerate COVID-19 vaccinations among resource sector workers. The airport clinic is open weekdays between 10am and 8pm for anyone working in the sector, whether they work for Rio Tinto or another company. The Claremont and Joondalup vaccination clinics are now open for people to attend without an appointment. Some regional clinics also offer the opportunity to be vaccinated without appointments, however bookings are always recommended.

Refer to the [announcement](#) for additional information.

Community vaccination clinics

There will be numerous regional pop-up clinics available for walk-ins in the coming weeks. Visit the [COVID-19 vaccine](#) webpage for a list of these clinics and their opening times

Existing [Community vaccination clinics](#) in WA include Midland, Perth Convention and Exhibition Centre, Claremont Showgrounds, Joondalup, Kwinana, and Bunbury.

The Comirnaty (Pfizer) COVID-19 vaccine is now being rolled out to, and administered by, GPs in WA. Approved pharmacies can also now administer the Spikevax (Moderna) and AstraZeneca COVID-19 vaccines for eligible populations. Participating GPs and pharmacies can be found by using the COVID-19 [Vaccine Clinic Finder](#).

Vaccine information and resources

Please visit the sources below for more information and resources related to vaccines:

- Requests for [alternative COVID-19 vaccine](#)
- HealthyWA - [COVID-19 Vaccine](#) (for WA community) including [FAQs](#)
- WA Health - [COVID-19 Vaccination Program](#) (for WA health providers)
- Small Business Development Corporation (SBDC) - workplace [information](#) about the COVID-19 vaccine FAQs (general information for businesses and employers)
- The Australian Government - [COVID-19 Vaccines hub](#)
- [Rollup for WA](#) and [Rollup for WA posters](#)
- KAMS - [Get vaccinated against COVID-19 TVC Campaign](#)

Directions updates

COVID-19 State of Emergency [Declarations](#) and community [advice](#) summarises the latest COVID-19 Directions that are in place in WA. Further information can be found on WA Government [website](#).

New Directions

[Controlled Border for Western Australia Amendment Directions \(No 44\)](#)

[Authorisation of Security Officers as Authorised Officers](#)

[Outbreak Outside of Western Australia Response Directions \(No 10\)](#)

[Chief Health Officer Approval to Request COVID-19 Testing on Persons who are Presenting to be Tested under the Transport, Freight and Logistics Directions \(No 6\)](#)

[Transport, Freight and Logistics Directions \(No 6\)](#)

[Residential Aged Care Facility Worker Access Directions \(No 4\)](#)

Supporting documents to [Health Worker \(Restrictions on Access\) Directions \(No 3\)](#)

[Authorisation to Perform a Function Under Paragraphs 9a and 10b of the Exposed Port Worker \(Restrictions on Access\) Directions \(No 2\)](#)

Updated fact sheets

[Principles for Health Care and Residential Aged Care Facilities](#)

[Clinician Alert #68 \(New\)](#)

[Aboriginal Sector Communication Update #28 \(New\)](#)

[Fact Sheet for Travellers from a High Risk Jurisdiction \(New\)](#)

[Fact Sheet for Travellers from a Medium Risk Jurisdiction](#)

[Fact Sheet for Travellers from a Low Risk Jurisdiction](#)

[Stay Safe at Work posters](#)

[Process of Approval for Small Cruise Ships to Sail in WA Waters](#)

Testing

General population [testing criteria](#)

The *Testing criteria for SARS-CoV-2 in Western Australia #33* has been published. Refer to the Department of Health [website](#) for further information.

Any person may be tested if they have any one of the following clinical criteria: fever ($\geq 37.5^{\circ}\text{C}$) OR history of fever (e.g. night sweats, chills), without a known source **OR** acute respiratory symptoms (e.g. shortness of breath, cough, sore throat, runny nose) **OR** acute loss of smell or taste.

Testing locations

Testing locations are listed on [HealthyWA](#).

Reporting

Notify suspected COVID-19 cases by completing the notification form either [ONLINE](#) or by printing out the notification form.

Series of National Guidelines (SoNG)

The [latest](#) iteration was released on 8 October 2021.

Australian Health Protection Principal Committee (AHPPC)

The [Australian Health Protection Principal Committee \(AHPPC\)](#) is the key decision-making committee for health emergencies. It is comprised of all state and territory Chief Health Officers and is chaired by the Australian Chief Medical Officer. The AHPPC has an ongoing role to advise the Australian Health Ministers' Advisory Council (AHMAC) on health protection matters and national priorities. AHPPC is also tasked with the role of mitigating emerging health threats related to infectious diseases,

the environment as well as natural and human made disasters. AHPPC has recently released the following statements:

- [12 October 2021](#) – Statement on recommendations for managing COVID-19 health risks

Business and industry

Resources for more information

- [WA Department of Health](#) and [HealthyWA](#)
- [Department of Health Media Releases](#)
- [Australian Government Health Department](#)
- [Advice for the public \(WHO\)](#)
- [Advice in other languages](#) and [Translated Resources](#)
- [Advice for Aboriginal people](#)
- [Covid Clinic walkthrough](#) – in multiple languages
- [Contact register](#) information
- SafeWA [user guide](#)

Who to contact for more information

- COVID-19 Clinic ONLY Test Results Enquiry Line: 1800 313 223 (Note: NOT for GP referred testing or private pathology clinic tests)
- COVID-19 WA Public Information Line: 132 6843 (13 COVID)
- COVID-19 Travel Restrictions Exemption Application: Visit the [G2G PASS](#) website
- COVID-19 WA Police Line: 131 444 To report breaches of: self-quarantine, business activities, border controls and other State of Emergency Directions

Next advice - The PHEOC Bulletin is issued weekly. Next issue: **Tuesday 26 October 2021**.

Last updated **19 October 2021**

This document can be made available in alternative formats on request for a person with disability.

© Department of Health 2021



Eastern Wheatbelt Biosecurity Group (EWBG) Annual General Meeting held Wednesday 29th of September, 2021 at Merredin Community Resource Centre, Conference Room, Merredin.

Chairperson: Steve Palm.

1. Opening of Meeting: 10.40am.

2. Attendance and Apologies:

- a. Attendance:** Steve Palm, Gary Coumbe, Mal Willis, Jim Sullivan, Ron Burro, Stuart Putt, Garrick Yandle, Scott Stirrat, Adrian Chesson, Dean Sinclair, Tom Mulcahy, Stuart McEwan, Jamie Taylor, Nathan Richards, Linda Vernon, Lisa O’Neill.
- b. Apologies:** Len Armstrong, Gary Guerini, Rick Wilson, Mia Davies, Cyril Smith.

Disclosure of Interests:

Jim Sullivan – on the Sheep and Goat and the Grains Industry Funding Scheme (IFS) Committee.

Steve Palm – Chairperson noted that Lisa O’Neill the Executive Officer was his daughter.

3. Confirmation of Minutes:

- a.** Meeting held 1st of October 2020, at DPIRD Conference Room, Merredin.

Motion:

That the minutes presented from the meeting held on the 1st of October 2020 are accepted as a true and accurate record.

***Moved: S. Stirrat. Seconded: M. Willis.
Carried.***

4. Business Arising from Previous Minutes:

- a.** Nil.

5. Adoption of Financial Statement:

- a.** 2020/21 Financial position presented.

Motion:

That the financials presented to be accepted as true and accurate and that the Audit Partners Australia Audit of the EWBG’s 2020/21 financials were tabled at the meeting to the members.

***Moved: S. Putt. Seconded: J. Sullivan.
Carried.***



6. Appointment of Auditor

Motion:

The Eastern Wheatbelt Biosecurity Group appoint Audit Partners Australia as the auditors for 2021/22 fiscal year.

**Moved: J. Sullivan. Seconded: R. Burro.
Carried.**

7. Setting of Membership Fee

Motion:

The Eastern Wheatbelt Biosecurity Group's will set a membership fee of \$100 for 2021/22 for the eleven-member Shire's of the group.

**Moved: S. Putt. Seconded: S. Stirrat.
Carried.**

8. Correspondence:

- a. Inward/Outward Correspondence

Motion:

That all correspondence presented be considered and accepted.

**Moved: L. O'Neill. Seconded: G. Coumbe.
Carried.**

9. **Chairs Report** – presented by Steve Palm. Included in the 2020/21 Annual Report.

10. Agenda Items

- a. **DPIRD update-** provided via Michael Britton (Office of RBG's) through zoom. Update on Strengthening Community Action to Manage Declared Pests and the recent RBG Forum in Perth.
- b. **LPMT (Dogger) Update**

LPMT's Stuart McEwan, Jamie Taylor and Nathan Richards outline current control activities. Outlining that through the winter the fence was hard to access due to the large amounts of water around. Wild Dog activity has been quiet, especially after the aerial bait.

Action: LPMT's to provide photos of areas of fence that need maintenance.

The EWBG thanked the LPMT's for their continued hard work. Also want to outline how much of a great impact the EWBG have had on the environment, in particular the increased number of birds and small mammals in the area due to fox, cat and wild dog control efforts of the EWBG LPMT's.



c. DBCA Update- Adrian Chesson

As per DBCA LPMT report provided to the EWBG. DBCA Restricted Product (RP) Permits to be extended for another 12 months.

d. Operational Plan – Lisa O’Neill

Operational Plan to be submitted to DPIRD by December 30, 2021. Committee of Management to meet and finalise early December.

e. Neighbouring RBG: Linda Vernon – Central Wheatbelt Biosecurity Association (CWBA)

Linda provided a presentation on the CWBA and their current Declared Pest Management Plan.

11. General Business

a. OHS - Understanding the NEW Work Health & Safety Act (WA) 2020.

Motion:

That the EWBG will engage with a HR Consultant to implement a Work Health Policy and Procedure Plan for the EWBG.

**Moved: R. Burro. Seconded: S. Putt.
Carried.**

12. Next Meeting: Committee of Management December 2021.

13. Close of Meeting: 12.54pm.

EWBG Chair Report 2021

Another 12 months has passed and the Eastern Wheatbelt have continued fulfilling their strategic plan to help landholders to control Declared Pests within their prescribed area. The Eastern Wheatbelt Biosecurity Groups three LPMT (Licensed Pest Management Technicians) continued their great efforts throughout the year resulting in a significant reduction in declared pests across the eleven shires of the Eastern Wheatbelt Biosecurity Group and continued control of Declared Pests.

The work of the LPMT's included almost 20 000 baits being laid resulting in an estimated 300 wild dogs controlled, 21 wild dogs confirmed destroyed, 32 foxes and 7 cats controlled for the year. I would like to take this opportunity to thank the LPMT's for their continued hard work.

The past year has seen the Aerial Baiting Project being completed in October 2020. Looking forward into 2021-22 we will see this project increase in area with the Northern Biosecurity Group and Central Wheatbelt Biosecurity Group following in the Eastern Wheatbelt Biosecurity Groups footsteps to use a helicopter for this project and working with LPMT- Jamie Taylor to put this in place. We thank Frog for coordinating this very extensive project.

This year has seen the fifth year of the Declared Pest Rate and with a consistent and permanent funding system this has allowed the group to go from strengths to strengths. In December 2020, the State Government announced \$13.4 million in continued funding to support the WA Wild Dog Action Plan for four years from 1 July 2021 to 30 June 2025. This includes \$800,000 per annum to support the employment of eight doggers who target control of wild dogs on government managed lands. The EWBG will continue to receive \$93,750 annually towards their LPMT's. Last year also saw the start of another three years sponsorship agreement with Western Area's and we thank them for their dedication to the control of Declared Pests.

EWBG were successful in obtaining two Industry Funding Scheme Grants. In collaboration with the Central Wheatbelt Biosecurity Association the EWBG undertook an aerial baiting program targeting areas that are difficult to access by ground. The second grant allowed the EWBG to continue our existing part time Licensed Pest Management Technician and then have the ability to continue this position in 21/22 and 22/23.

DPIRD have once again restructured their staff and we have now seen the formation of the Office of RBG's. This will see more contact from DPIRD on a broad scale through Zoom meetings and hopefully more uniform information supply and increased involvement from the RBG's in important matters relating to the industry. The Minister put together a Roundtable RBG forum in Bunbury earlier in the year which I was able to attend.

Finally I would like to finish by thanking everyone involved with the EWBG including the board, shire representatives, our hard working employees Jamie Taylor (LPMT), Stuart McEwan (LPMT), Nathan Richards (LPMT) and Lisa O'Neill (EO), your time and dedication is very much appreciated.

EWBG continue to look forward to working with all stakeholders in the industry and keeping the agricultural region free and safe from declared pests for many more years to come.

Steve Palm

Shire of Mukinbudin



EASTERN WHEATBELT BIOSECURITY GROUP INC.

Annual Report

For

2020/21 FINANCIAL YEAR

Prepared by Lisa O'Neill

Proudly supported by

- ◆ SHIRE OF KONDININ ◆ SHIRE OF KULIN ◆ SHIRE OF LAKE GRACE ◆ SHIRE OF MERREDIN ◆
- ◆ SHIRE OF MT MARSHALL ◆ SHIRE OF MUKINBUDIN ◆ SHIRE OF NAREMBEEN ◆ SHIRE OF NUNGARIN ◆
- ◆ SHIRE OF TRAYNING ◆ SHIRE OF WESTONIA ◆ SHIRE OF YILGARN ◆



Department of Biodiversity,
Conservation and Attractions



ROYALTIES
FOR REGIONS



Department of
Primary Industries and
Regional Development

1.0 Table of Contents

2.0	Chair Report – Stephen Palm (Mukinbudin Representative).....	2
3.0	Overview	3
3.1	Achievements.....	3
4.0	EWBG Aims and Objectives.....	5
4.1	Our Aim (Vision).....	5
4.2	Our Role (Mission)	5
4.3	Objectives.....	5
5.0	Direction.....	6
6.0	Summary	7
	Appendix 1: RBG Area of Operation	8
	Appendix 2: Audited Financial Report	9
	Appendix 3: Reported Wild Dog Activity in EWBG Operational Area.....	10

2.0 Chair Report – Stephen Palm (Mukinbudin Representative)

Another 12 months has passed and the Eastern Wheatbelt have continued fulfilling their strategic plan to help landholders to control Declared Pests within their prescribed area. The Eastern Wheatbelt Biosecurity Groups three LPMT (Licensed Pest Management Technicians) continued their great efforts throughout the year resulting in a significant reduction in declared pests across the eleven shires of the Eastern Wheatbelt Biosecurity Group and continued control of Declared Pests.

The work of the LPMT's included almost 20 000 baits being laid resulting in an estimated 300 wild dogs controlled, 21 wild dogs confirmed destroyed, 32 foxes and 7 cats controlled for the year. I would like to take this opportunity to thank the LPMT's for their continued hard work.

The past year has seen the Aerial Baiting Project being completed in October 2020. Looking forward into 2021-22 we will see this project increase in area with the Northern Biosecurity Group and Central Wheatbelt Biosecurity Group following in the Eastern Wheatbelt Biosecurity Groups footsteps to use a helicopter for this project and working with LPMT- Jamie Taylor to put this in place. We thank Frog for coordinating this very extensive project.

This year has seen the fifth year of the Declared Pest Rate and with a consistent and permanent funding system this has allowed the group to go from strengths to strengths. In December 2020, the State Government announced \$13.4 million in continued funding to support the WA Wild Dog Action Plan for four years from 1 July 2021 to 30 June 2025. This includes \$800,000 per annum to support the employment of eight doggers who target control of wild dogs on government managed lands. The EWBG will continue to receive \$93,750 annually towards their LPMT's. Last year also saw the start of another three years sponsorship agreement with Western Area's and we thank them for their dedication to the control of Declared Pests.

EWBG were successful in obtaining two Industry Funding Scheme Grants. In collaboration with the Central Wheatbelt Biosecurity Association the EWBG undertook an aerial baiting program targeting areas that are difficult to access by ground. The second grant allowed the EWBG to continue our existing part time Licensed Pest Management Technician and then have the ability to continue this position in 21/22 and 22/23.

DPIRD have once again restructured their staff and we have now seen the formation of the Office of RBG's. This will see more contact from DPIRD on a broad scale through Zoom meetings and hopefully more uniform information supply and increased involvement from the RBG's in important matters relating to the industry. The Minister put together a Roundtable RBG forum in Bunbury earlier in the year which I was able to attend.

Finally, I would like to finish by thanking everyone involved with the EWBG including the board, shire representatives, our hard-working employees Jamie Taylor (LPMT), Stuart McEwan (LPMT), Nathan Richards (LPMT) and Lisa O'Neill (EO), your time and dedication is very much appreciated.

EWBG continue to look forward to working with all stakeholders in the industry and keeping the agricultural region free and safe from declared pests for many more years to come.

Steve Palm – EWBG Chair.

Shire of Mukinbudin

3.0 Overview

The Eastern Wheatbelt Biosecurity Group (EWBG) is an incorporated organisation that commenced operating in 2001. It has eleven Shire representatives making up the EWBG membership. A management group is elected every two years who direct and manage the day-to-day operations via an Executive Officer.

EWBG is a Recognised Biosecurity Group which allows the implementation of a Declared Pest Rate (DPR). This was raised for the first time in October 2016, so this year saw its fifth year with the DPR in place. The Minister of Agriculture and Food, through the Department of Primary Industry and Regional Development (DPIRD) matches rates collected for the management of WA's Declared Pests. The collection rate of the DPR over the past five years has been excellent and the group thanks landholders for their support to allow ongoing management of declared pests across the prescribed area.

The management group work on a voluntary basis, with an in-kind contribution of approximately \$15,000 a year across the eleven shires (volunteer's contribution of time and travel to meetings, plus attending workshops and bait making days). This does not include individual landholder and community contributions which are extensive.

The EWBG employ an Executive Officer part time and contract highly skilled and experienced Licenced Pest Management Technicians (LPMTs) - one part time (80 days) and two full time (200 days per year).

The group is supported financially by the mining company Western Areas LTD (WSA), the Department of Primary Industries and Regional Development (DPIRD), Department of Biodiversity, Conservation and Attractions (DBCA), the State Governments' Royalties for Regions program and the eleven member Shires (Kondinin, Kulin, Lake Grace, Merredin, Mount Marshall, Mukinbudin, Nungarin, Narembeen, Trayning, Westonia and Yilgarn).

Achieving success in this role ensures Eastern Wheatbelt agricultural businesses can become more robust and remain viable through improved productivity and increased income associated with reduced stock losses due to increasingly effective and coordinated declared pest management practices.

3.1 Achievements

Through necessity, the focus to date of the EWBG has been on the management of wild dogs and in conjunction with this, European red foxes, and the feral cat.

The EWBG has been very successful in reducing wild dog predation across the extensive area enabling farming businesses to enter back into livestock and providing additional opportunities for agistment of sheep in the area over the summer months thus diversifying the agricultural economic base.

In 2000-2001 **reported** sheep losses were more than 2000 head. EWBG coordinated activities halved this to 1000 in 2008, 135 head in 2017/18 and 31 in 2020/21. With approximately 15 new RCP Permits in 2020/21 in place in the area due to assistance from the EWBG, this allows landholders to carry out

their own pest control activities as well as provide immediate access and support if required by LPMTs in key target areas. The EWBG encourages all landholders to obtain an RCP Permit and will assist in this process.

EWBG requests from community and LPMTs any reports of wild dogs and records all management activities of Wild Dogs undertaken in the EWBG area. This supports the National Wild Dog Strategy and provides data via the nationally funded Feralscan database.

The EWBG has played a significant role in ensuring farmers can continue to stock sheep and other livestock in the Southwest of WA by leading a collaborative and coordinated approach to provide management of wild dogs inside and outside the WA State Barrier Fence, from Northampton to Esperance in 2020/21.

4.0 EWBG Aims and Objectives

4.1 Our Aim (Vision)

Community control of community pests.

4.2 Our Role (Mission)

Protect and support the future of the Eastern Wheatbelt by working with landholders to fulfil their responsibility of managing declared pests on their land.

The EWBG believes declared pests can be better managed by working together as a community in conjunction with industry and government. Through a coordinated approach utilising a variety of strategies and technologies, EWBG can better assist and support landholders.

4.3 Objectives

The objectives of the EWBG are to:

- Control current predation of livestock by declared pests.
- Develop and implement management strategies to minimise future declared pest impacts on livestock.
- Implement best practice declared pest management on private and public lands in the region.
- Increase landholder participation, both private and public.
- Monitor, evaluate and report on the progress towards minimising declared pest impact on livestock in member shires.
- Provide proactive and positive extension activity driven by the group that will facilitate broader community awareness of declared pest issues.

5.0 Direction

The Eastern Wheatbelt Biosecurity Group is playing a key role in assisting land managers to manage declared pests in their prescribed region. Data from a range of sources shows that the Eastern Wheatbelt region has significant populations of declared animal pests that pose substantial environmental and economic risks to privately held farmland, unallocated crown land and river systems.

Declared animal pests of most concern for our communities and region, include wild dogs and foxes.

Wild dogs continue to cause livestock losses across the Eastern Wheatbelt. Whilst significant reductions in wild dog populations have occurred through the long-term activities of the EWBG, ongoing work is essential to keep populations at a level that will enable ongoing, profitable livestock operations across the region and state.

Management of wild dogs is in alignment with the *Western Australian Wild Dog Action Plan 2016-2021*. This is an 'industry led and driven plan that considers the economic, environmental and social impacts of wild dogs and identifies the key issues for managing them across Western Australia. The plan is designed to protect the livestock and tourism industries and public safety and recognises the ecological and cultural values of the dingo'.

Fox and feral cat control has also been identified as a priority management issue throughout our operational area, particularly for landholders with livestock. The group also recognises the negative impact that foxes have on biodiversity, particularly native fauna.

As the EWBG operational area incorporates many larger areas of remnant vegetation close to and beyond the clearing line, the control of foxes and feral cats is important for the sustainability of livestock enterprises and for the benefit of nature conservation. It is also foundational in ensuring any efforts in Wild dog control are maximised. The management of foxes is imperative to maximise wild dog control however the EWBG have increased monitoring of foxes as response to concern and interest in the Shire of Narembeen.

The EWBG conducted an extensive aerial baiting program in 2020/21. The operation occurred in October 2020 which focused on the northern area of the EWBG from Lake Moore to the east of the Shire of Mukinbudin. The aerial baiting program allows maximum control and provides the LPMT's the ability to conduct surveillance of the area. This control program is essential and reduces the pressure Wild Dogs place on the SBF and allows the EWBG LPMT's to control Wild Dogs that have infiltrated the SBF into agricultural land.

The EWBG has been continuing to work with DPIRD in the use of reporting through Feralscan. This will provide landholders the ability to report pests so the group can better understand the various pests, prevalence, and current pest management in EWBG areas. The EWBG has also included motion censored cameras in their control program to help increase surveillance and monitoring of declared pests within the prescribed area.

6.0 Summary

This year has seen the EWBG develop even further as a Recognised Biosecurity Group. This is the fifth year of the Declared Pest Rate (DPR) within the Eastern Wheatbelt Biosecurity Group's prescribed area. This rate allows the Eastern Wheatbelt Biosecurity Group (EWBG) to support landholders in their ongoing obligation and responsibility to control declared pests on their land.

The group has received great support from landholders and industry. EWBG continued to engage with the local community to canvas declared pest priorities and develop relevant activities and partnerships to pursue continuous improvement of pest management.

Throughout 2020/21 the Eastern Wheatbelt Biosecurity Group has provided landholders the opportunity to obtain 1080 accreditation and apply for a Restricted Chemical Permit (RCP), which the EWBG are currently covering the associated costs, to ensure maximum participation and widespread pest management. This allows landholders the opportunity to control declared pests on their property to the best of their ability. EWBG provide this service so landholders can engage with the RBG and to provide opportunities to input into priority declared pests. Representatives from the group have attended multiple community events (those available due to Covid 19), allowing landholders the opportunity to engage with the group and discuss priority pests. The group will continue to attend industry events in the future as it provides a voice for landholders within the area.

The Executive Officer is active in all industry relevant workshops and conferences to maximise collaboration with the other 14 Recognised Biosecurity Groups. This also allows the EWBG Executive Officer to provide support and networking with other RBG Executive Officers. Committee Members are also active in any industry relevant discussions or meetings.

The EWBG also worked in cooperation with several stakeholders to ensure upkeep and maintenance of all grids within our prescribed area. Thank go to Ramelius Resources, MLG, the Shire of Yilgarn and DPIRD for funding and assisting with the upkeep of these grids.

The group is very appreciative of the great co-operation they have had from the landholders, the member Shires, Department of Primary Industry and Regional Development, AWI, Western Area's Ltd and Department of Biosecurity, Conservation and Attractions (DBCA). The group is also very grateful for the hard work and dedication the three LPMT's have put towards the group, the success of the group is a large reflection of their solid work.

Committee of Management:

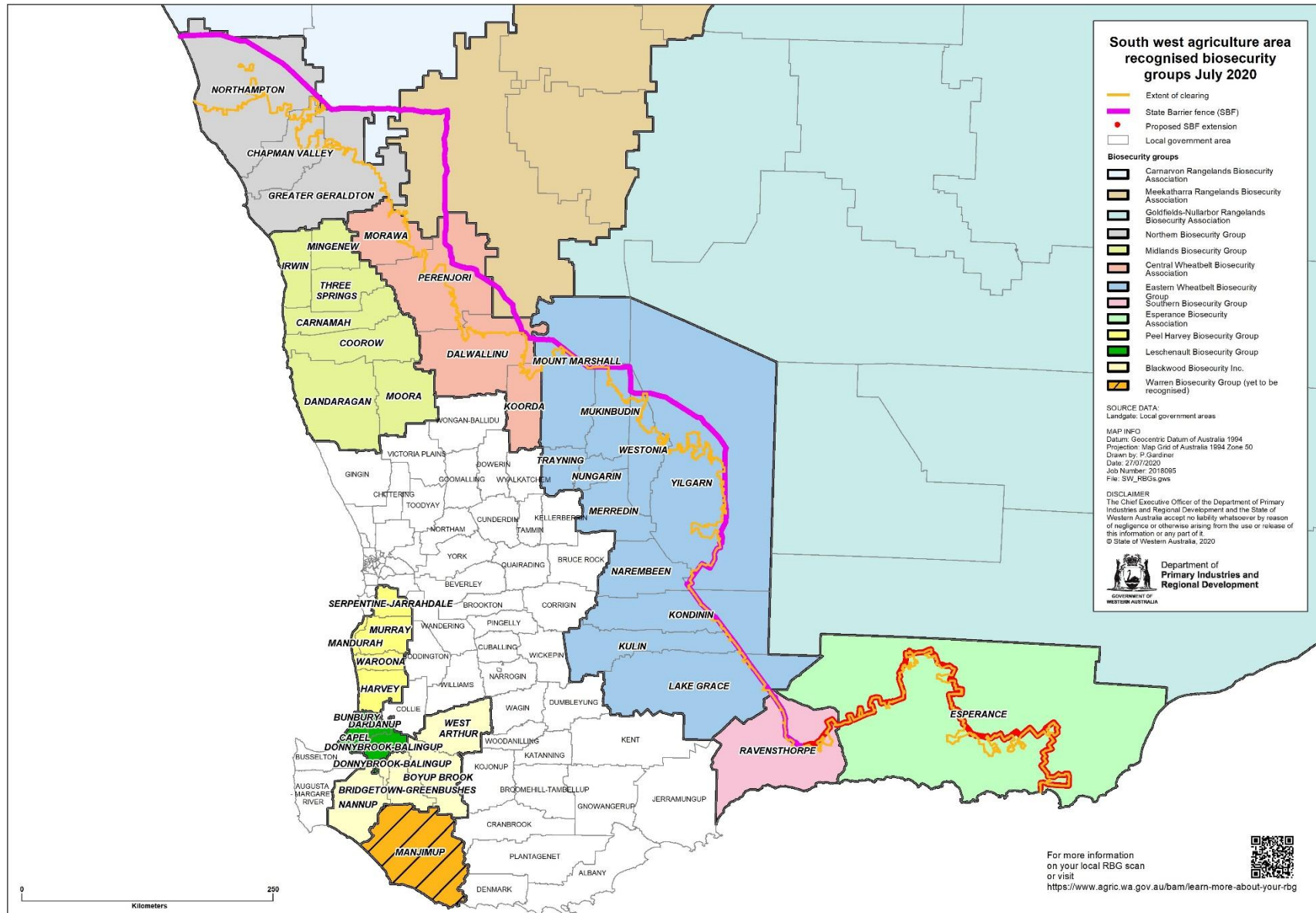
Chair – Steve Palm, Deputy Chair – Scott Stirrat.

Committee: Jim Sullivan, Cyril Smith, Mark Crees, Dean Sinclair, Stuart Putt, Ron Burro.

Shire Representatives for EWBG

Merredin - Mal Willis, Mukinbudin- Steve Palm, Narembreen- Scott Stirrat, Westonia- Ross Della Bosca, Trayning- Jim Wilkins, Nungarin- Gary Coumbe, Mt Marshall- Stuart Putt, Lake Grace - Len Armstong, Kulin-Brad Taylor, Kondinin- Tom Mulcahy, Yilgarn- Gary Guerini.

Appendix 1: RBG Area of Operation



Appendix 2: Audited Financial Report

EASTERN WHEATBELT BIOSECURITY GROUP INC
ABN 97 381 980 973

INCOME STATEMENT FOR THE YEAR ENDING 30 JUNE 2021

Income	Grant - Aerial	Grant - Staff	DPR	R4R	Other	Total
Grant Funding (IFS)	20,760	33,000	-	-	-	53,760
Declared Pest Account	-	-	307,035	-	-	307,035
R4R Funding	-	-	-	93,750	-	93,750
Membership Fees Received	-	-	-	-	1,100	1,100
Interest	-	-	-	-	1,873	1,873
Other Income	-	-	-	-	29,000	29,000
Total Income	20,760		307,035	93,750	31,973	486,518
Expenses						
Accounting Fees	-		3,250	-	-	3,250
Administration Costs	-		1,941	-	-	1,941
Aerial Baiting	11,340		-	-	-	11,340
Audit Fees	-		55	-	-	55
Baits, Toxin & Traps	-		34,539	-	-	34,539
Bank Charges	-		151	-	-	151
Catering	-		792	-	-	792
COM Event Attendance	-		-	-	-	-
Community Engagement	-		3,386	-	-	3,386
Computer Software & Support	-		117	-	-	117
Conferences & Seminars	-		2,470	-	-	2,470
Consultancy Fees	-		-	-	-	-
Contractor Payments	9,420	33,000	192,030	93,750	-	328,200
Executive Support	-		390	-	-	390
Insurance	-		19,291	-	-	19,291
Office	-		3,545	-	-	3,545
Other - Annual Leave Provision	-		1,724	-	-	1,724
Postage & Stationery	-		146	-	-	146
Subscriptions & Licenses	-		-	-	-	-
Subscriptions & Licenses	-		173	-	-	173
Superannuation	-		4,241	-	-	4,241
Travel	-		367	-	-	367
Wages	-		46,849	-	-	46,849
Total Expenses	20,760		315,457	93,750	-	462,967
Carryover	-		(8,422)	-	31,973	23,551

Appendix 3: Reported Wild Dog Activity in EWBG Operational Area

END OF YEAR STATICS

2020-21 Fiscal Year

	LPMT 1	LPMT 2	LPMT3	Total for EWBG
Number of days worked	191	201	83.5	475.5
Baits laid (inc Aerial Bait)	1200	17150 (inc. Aerial bait)	1000	19350
Wild Dogs destroyed (not inc. all baited)	10	5	3	18 (300 expected baited)

- **Additional 2 Wild Dogs controlled including reported Landholder operations, not including baiting.**

Total Wild Dogs Destroyed (including destroyed by landholders) and number of Wild Dogs with a very high probability of having taken a 1080 Wild Dog bait.

Reported Wild Dog attacks and stock death:

Year	Month	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	Jun.	TOTAL
2012/13	Attacks	3	3	1	3	3	2	2	1	4	5	4	4	35
	Stock Losses	16	3	2	5	8	6	5	2	23	31	10	13	124
2013/14	Attacks	2	3	5	8	2	1	4	3	2	3	1	3	37
	Stock Losses	14	9	64	34	10	4	6	8	6	9	1	30	195
2014/15	Attacks	1	1	1	2	0	0	2	5	1	2	1	0	16
	Stock Losses	2	40	4	8	0	0	8	9	2	5	2	0	80
2015/16	Attacks	1	0	1	0	1	1	0	1	0	1	1	0	7
	Stock Losses	8	0	6	0	2	7	0	1	0	30	5	0	59
2016/17	Attacks	1	2	0	0	2	0	1	1	0	0	0	1	8
	Stock Losses	4	5	0	2	0	0	2	2	0	0	0	1	16
2017/18	Attacks	1	2	1	0	1	1	1	1	1	1	1	1	12
	Stock Losses	5	2	8	0	3	60	3	8	2	27	12	5	135
2018/19	Attacks	2	1	2	1	0	2	0	0	0	2	1	0	11
	Stock Losses	10	3	28	2	0	13	0	0	0	4	10	0	70
2019/20	Attacks	0	0	0	1	0	0	0	0	1	0	1	1	4
	Stock Losses	0	0	0	2	0	0	0	0	2	0	50	1	55
2020/21	Attacks	1	1	0	0	1	1	0	1	1	0	0	0	6
	Stock Losses	1	8	0	0	4	3	0	8	8	0	0	0	32



18th October 2021

Dear Shire Presidents, Councillors, CEOs & Staff,

Firstly, let me congratulate those Elected Members who have been successfully re-elected and warmly welcome the newly Elected Members to Local Government.

The Wheatbelt Secondary Freight Network (WSFN) Steering Committee acknowledges that we have not been as regular with our communications with the 42 Wheatbelt Local Governments about the progress of the project as we would have liked. As the Chairperson of the Steering Committee, I decided that once the Local Government Election process commenced, I would wait until after the elections before communicating with Councils. Updates on the project are always found in the Minutes from the Regional Road Group meetings which are distributed to Delegates and CEO's following each meeting, however sometimes this is not as prevalent as many LGs or WSFN would appreciate and often gets lost amongst other information.

For those that aren't aware, the Wheatbelt Secondary Freight Network is some 4500km of Local Government roads that moves agricultural freight across and through each of our local governments, connecting with the State Road network where possible, to ensure safe and fit for purpose secondary freight road network. This project first commenced back in 2014, at Regional Road Group level where the conversation was very much around ensuring those strategic roads that connected Local Governments all had the same Heavy Vehicle RAV rating to aid in the efficient movement of freight. This then became a conversation between Wheatbelt North & Wheatbelt South about the same connectivity, it was at this point that Regional Development Australia highlighted that we had a unique project that just might attract some State & Federal Funding. To cut a very long story short, our first round of funding was announced ahead of the May 2019 Federal Election, with a combined total of \$87.5M for WSFN, then in October 2020 on the back of the COVID19 stimulus a further \$100M was announced. Both funding streams are 80% Federal, 20% State (2/3 State & 1/3 Local Government), this is a significant windfall for Local Governments who usually must contribute 30% of the total project costs under most road funding from the Federal & State Governments.

In 2019, all 42 Local Governments formally agreed to be a part of the WSFN Program, including accepting the Program Delivery Plan.

In the past two years we have delivered \$22M worth of Priority 1 projects and are on target to deliver \$32M in this financial year. We would like to sincerely thank those Local Governments that have been involved in the first few years of this project, there have been many teething issues to resolve.

The projects funded under Priority 1 to a total value of \$120M are:

- | | |
|---------------------------|-------|
| 1. Lancelin to Meckering | \$27M |
| 2. Dumbleyung to Nyabing | \$5M |
| 3. Cuballing to Wickpin | \$3M |
| 4. Dowering to Dalwallinu | \$21M |

- | | |
|-----------------------------|-------|
| 5. Merredin to Kondinin | \$14M |
| 6. Jurien Bay to Dalwallinu | \$26M |
| 7. Corrigin to Katanning | \$14M |

The Project Delivery Team are currently working with Priority 2 Local Governments on the development of their budgets head of the funding allocation in early 2022. It is imperative that these Local Governments meet the December deadline to be considered for funding under Priority 2, failure to meet this deadline will see Local Governments moved to Priority 3, which is yet unfunded.

The following routes & Local Governments are potentially part of Priority 2, the Project Manager Peter Hall has been working with staff from all these Local Governments since March of this year, to assist in the development of designs and budgets. The report on the progress of this work has been through the minutes of the Regional Road Groups which were distributed to all 42 Local Governments. I have attached this most recent report on the Priority 2 funding process for your information.

- | | |
|--|---|
| 1. Narrogin to North Bannister | (Shires of Narrogin, Cuballing & Wandering) |
| 2. Regans Ford to Miling | (Shires of Dandaragan & Moora) |
| 3. Nungarin to Wialki | (Shire of Nungarin) |
| 4. Dangin to Kweda | (Shires of Quairading & Brookton) |
| 5. Cunderdin to Koorda | (Shires of Cunderdin, Wyalkatchem & Koorda) |
| 6. Gingin to Northam | (Shires of Gingin, Chittering & Toodyay) |
| 7. Kukerin to Albany | (Shire of Dumbleyung) |
| 8. Corrigin to Bruce Rock | (Shires of Corrigin & Bruce Rock) |
| 9. Collie to Changerup | (Shire of West Arthur) |
| 10. Northam town access from Great Eastern Highway | |
| 11. Wandering to Aldersyde | (Shires of Wandering, Pingelly & Brookton) |

It is anticipated that the full \$187.5M will be expended by 2025/2026; so, the next 4 years for the Steering Committee will be about lobbying the State and Federal Governments for funding to continue the delivery of the project into Priority 3 and 4 routes. This will only be possible with the successful on time and on budget delivery of Priority 1 and 2 routes.

It is worth remembering that a project of this size, involving this many Local Governments has never been done anywhere in Australia, the success of this project will see Local Governments coming together to deliver outcomes for a region rather than locally for many years to come.

I encourage all Elected Members to familiarise themselves with the overall project, but also with the routes that are within your Local Government and where they sit in the prioritisation of the project. Should you have any questions, in the first instance talk to your Regional Road Group Delegate, if they can't answer your questions then feel free to ring the Chair of your Regional Road Group, or myself.

Yours sincerely



Katrina Crute
Chairperson
Steering Committee for

Padley Park

Stormwater Feasibility and Design Study

Prepared for Shire of Lake Grace

By Urbaqua

September 2021

Disclaimer and Limitation

This document is published in accordance with and subject to an agreement between Urbaqua and the Client, Shire of Lake Grace, for who it has been prepared for their exclusive use. It has been prepared using the standard of skill and care ordinarily exercised by environmental professionals in the preparation of such Documents.

This report is a qualitative assessment only, based on the scope of services defined by the Client, budgetary and time constraints imposed by the Client, the information supplied by the Client (and its agents), and the method consistent with the preceding. Urbaqua has not attempted to verify the accuracy or completeness of the information supplied.

Any person or organisation that relies upon or uses the document for purposes or reasons other than those agreed by Urbaqua and the Client without first obtaining the prior written consent of Urbaqua, does so entirely at their own risk and Urbaqua, denies all liability in tort, contract or otherwise for any loss, damage or injury of any kind whatsoever (whether in negligence or otherwise) that may be suffered as a consequence of relying on this Document for any purpose other than that agreed with the Client.

Copying of this report or parts of this report is not permitted without the authorisation of the Client or Urbaqua.

CONTENTS

1	Introduction.....	1
1.1	Current/ Predevelopment Stormwater Management	1
2	Stormwater Demand/ Availability Assessment.....	5
2.1	Irrigation Water Demand.....	5
2.2	Irrigation Water Availability.....	6
3	Preliminary Concept	8
3.1	Basin and Storage Options Assessment	8
3.2	Preliminary Concept Design.....	9
4	Future Works.....	13
4.1	Further Investigations.....	13
5	References	14
Appendix 1	Pre Development Water Balance Summary	
Appendix 2	Post Development Water Balance Summary	
Appendix 3	CBH Dam Water Balance Summary	
Appendix 4	Town Sump Water Balance Summary.....	
Appendix 5	Turkey Nest Water Balance Summary	
Appendix 6	Cemetery Creek Water Balance Summary	
Appendix 7	Padley Park Stormwater Water Balance Summary	

Figures

Figure 1:	Site Location	2
Figure 2:	Site Context.....	3
Figure 3:	Predevelopment Water Balance Schematic	4
Figure 4:	Post Development Water Balance Schematic	11
Figure 5:	Indicative Concept Plan for Stormwater Basin and Irrigation Area.....	12

Tables

Table 1:	Inflow and Outflow Volume Summary	7
Table 2:	Padley Park Basin and Storage Tank Sizing Options	8

1 INTRODUCTION

Shire of Lake Grace would like to capture and store the townsite stormwater runoff and reuse a portion of this to irrigate the Shire's POS areas (primarily the townsite ovals but also a future portion of Padley Park itself) for drought mitigation and water efficiency. The Shire's preferred strategy involves the integration of constructed wetlands and a stormwater basin within Padley Park. This has been considered in the assessment. The site location is shown in Figure 1.

1.1 Current/ Predevelopment Stormwater Management

The irrigation supply for the townsite ovals are currently fed by a variety of water sources and catchments. The town ovals and Padley Park are shown in Figure 2 in the context of the current stormwater catchment dams. These current catchment dams and storage facilities include;

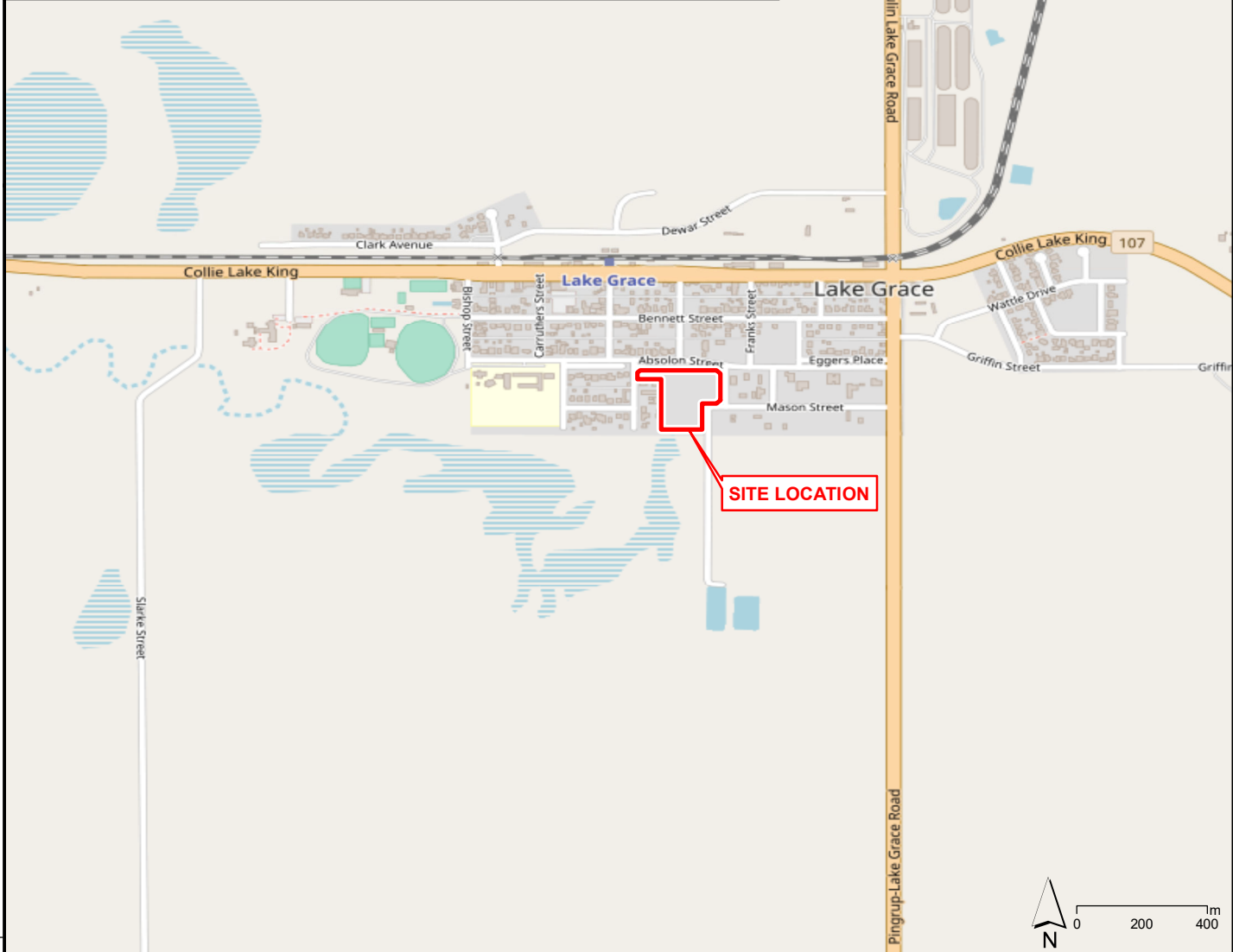
- The CBH dam – This receives runoff from the catchment to the north-east of the dam. It is understood that CBH does not use this water, and that it is only used by the Shire for the irrigation of the ovals (*pers. comm.* J Lip, Sep 2021).
- The town sump – This receives overflow from the CBH dam via a gravity discharge, and runoff from its own catchment.
- The turkey nest dams – These receive a pumped discharge from the town sump, and runoff from its own catchment.
- The town oval storage tanks – These receive a pumped discharge from the turkey nest dams.
- Cemetery Creek via Padley Park – This receives an overflow from the town sump, and runoff from the townsite catchment.

More details on the capacities, inflows and outflows of these dams are provided in Section 2.2.

With the CBH and turkey nest dams, it is understood that in a drought, water from these dams can be used by farmers for emergency stock and spray water. Farmers provide their own water trucks, pipes and pumps (*pers. comm.* J Lip, Sep 2021). Given this usage is under exceptional circumstances, for the purpose of this assessment emergency water has not been included in the water balance.

A predevelopment schematic of the current water usage and flow paths is presented in Figure 3. The schematic reflects the pumped discharge rates (where applicable) and the overflow volumes as calculated from the predevelopment water balance modelling.

The predevelopment water balance model is provided in Appendix 1.

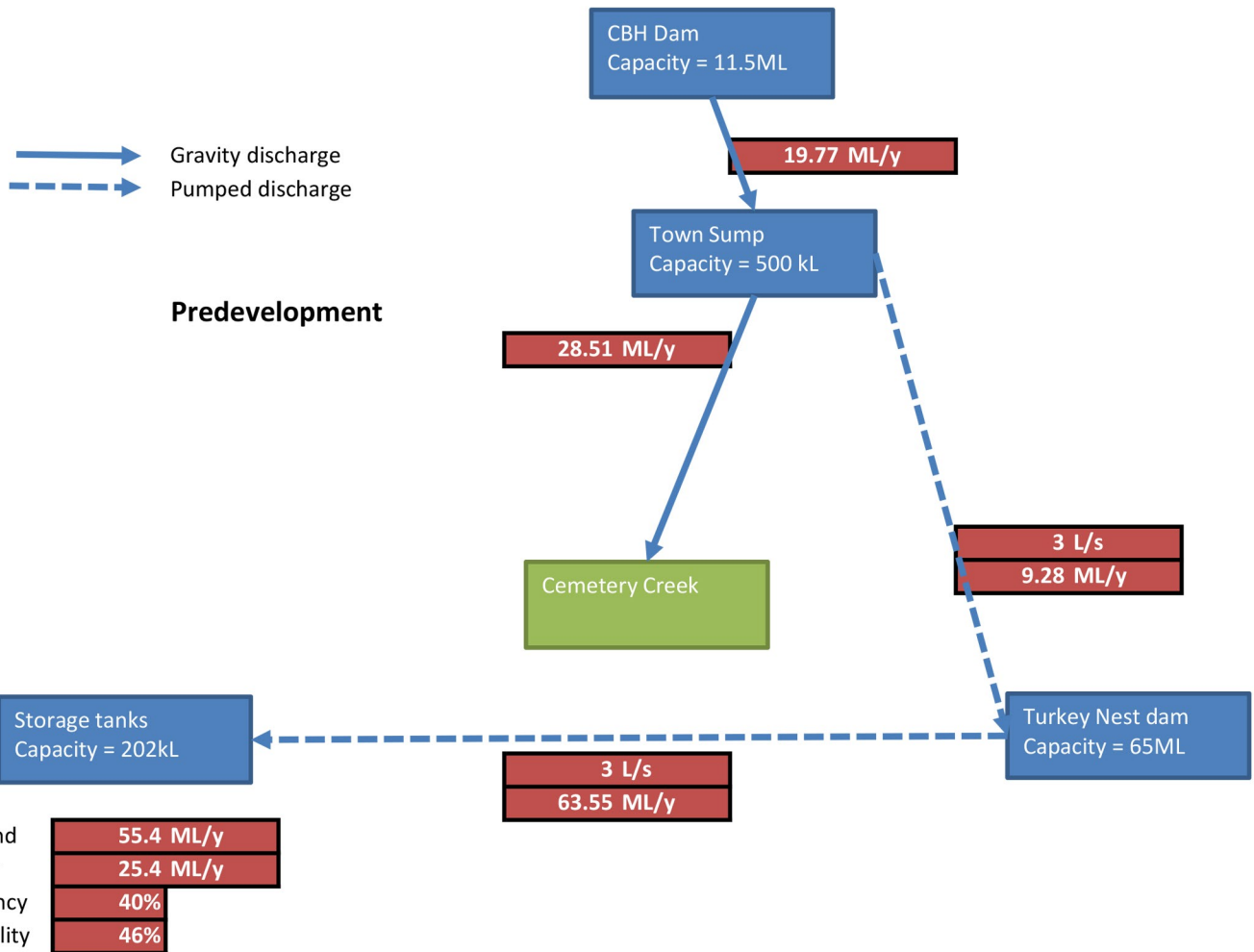


LEGEND

- Site Boundary
- Cadastre
- Railway

Scale: 1:20,000 @ A3
GCS GDA 1994





Notes:
 30ML/y is reported scheme water use currently
 Pumped flow shown from Turkey Nest dam is "potential" not actual & does not consider other uses.

2 STORMWATER DEMAND/ AVAILABILITY ASSESSMENT

Water demand and availability assessments were undertaken. This involved a review of the GHD (2009 and 2011) and KBR (2005) investigations undertaken to date. Information from these assessments were used to create a spreadsheet water balance model which assessed the following;

- The water demand requirements - The water required for irrigation for the townsites' POS areas (town ovals and future Padley park recreational area); and
- The water availability – The water available for harvesting from the available catchments after losses (catchment losses, climate losses, current irrigation usage from the sump etc).

2.1 Irrigation Water Demand

2.1.1 Town Oval Irrigation Demand

The demand assessment undertaken for the ovals determined that 55.4 ML/yr is required for irrigation of the town ovals. This was predicted from the water demand water balance which predicted the usage requirements based on the areas requiring irrigation, irrigation scheduling (twice a week) and irrigation rate. The irrigation water usage for the town ovals is shown as part of the pre-development water balance represented in Appendix 1.

The predevelopment model (shown as a schematic in Figure 3) determined that approximately 25.4 ML/yr is being supplied from the current stormwater catchments (Section 1.1 and Appendix 1). Previous KBR reporting supplied by the Shire cited that 30 ML/yr is used from scheme water to irrigate the ovals in addition to the current stormwater harvesting. The predevelopment modelling stormwater supply volume (25.4ML/yr) and that reported scheme water supply (30 ML/yr) equate to the total demand estimate (55.4 ML/yr) which provides validation that the irrigation demand and the predicted predevelopment stormwater supply volumes based on this water balance is likely accurate. GHD (2009) also predicted an irrigation demand of approximately 55 ML/yr. We understand that scheme water is now not used to replenish the stormwater harvesting (*pers. comm.* J Lip, Sep 2021), and if sufficient water is not available from the turkey nest dams, then the town ovals go without irrigation and go brown.

In the post development demand scenario, the irrigation demands have not changed at the town ovals (ie. no increase in size of ovals or therefore supply requirement).

2.1.2 Padley Park Irrigation Demand

In the post development water balance scenario, irrigation of an area within Padley Park was included in the demand requirements. Shire officers (*pers. comm.* J Lip, Aug 2021) advised that a potential recreational area within Padley Park may be built with grassed areas and park benches.

The possible area requiring irrigation is shown in Figure 5 and equates to approximately 0.37 ha. This area requires an annual irrigation volume of approximately 5.3 ML/yr. The irrigation water requirement for Padley Park is shown as part of the post-development water balance represented in Appendix 2.

2.2 Irrigation Water Availability

As discussed in Section 1.1, there are multiple inputs and stormwater harvesting opportunities currently being used, and available in the future, for the townsite ovals and Padley recreational area irrigation. These inputs are discussed in more detail below and the locations shown in Figure 2.

2.2.1 CBH Dam

The CBH dam receives runoff from the predominantly rural catchment to the north east of the dam. The capacity of the dam is approximately 11.5 ML.

Runoff modelling considered the land use within the catchment and an appropriate runoff coefficient to estimate the likely volume of runoff over a 10-year period. The water balance calculations indicate that there is, on average, approximately 27.3 ML/yr runoff from its' catchment and direct rainfall into CBH dam (Appendix 3).

From the CBH Dam there is a gravity discharge to the town sump. Water balance modelling estimates an outflow/ overflow of, on average, 19.7ML/ yr to the town sump (Appendix 3). The CBH dam level fluctuations are shown in Appendix 3.

2.2.2 Town Sump

The town sump receives inflow from CBH dam (as described above – 19.7 ML/ yr) and from a mostly rural catchment to the east of the dam. The town sump has a capacity of 500 kL (0.5ML).

Runoff modelling considered the land use within the catchment and an appropriate runoff coefficient to estimate the likely volume of runoff over a 10-year period. The water balance calculations indicate that there is, on average, approximately 18.1 ML/yr runoff from its' catchment and direct rainfall into the town sump (Appendix 4).

From the town sump there is a pumped discharge to the turkey nest dams. Water balance modelling estimates an output of 9.3 ML/ yr to the turkey nest dams based on the pump rate (Appendix 4). From the town sump there is also an overflow to Cemetery Creek (via Padley Park). Water balance modelling estimates an output of, on average, 28.5 ML/ yr to Cemetery Creek (Appendix 4).

The town sump level fluctuations and inflow from CBH dam are shown in Appendix 4.

2.2.3 Turkey Nest Dams

The turkey nest dams receive inflow from the town sump (as described above – 9.3 ML/ yr) and from a mostly rural surrounding catchment. The turkey nest dams have a combined capacity of 65 ML and are located approximately 4km east of the townsite (Figure 2).

Runoff modelling considered the land use within the catchment and an appropriate runoff coefficient to estimate the likely volume of runoff over a 10-year period. The water balance calculations indicate that there is, on average, approximately 61.5 ML/yr runoff from its' catchment and direct rainfall into the turkey nest dams (Appendix 5).

From the turkey nest dams there is a pumped discharge to the storage tanks at the town ovals. Water balance modelling estimates a discharge of 63.5 ML/ yr to the storage tanks based on the pump rate and pump scheduling (Appendix 5).

The turkey nest dam level fluctuations and inflow from the town sump are shown in Appendix 5.

2.2.4 Storage Tanks

The storage tanks currently receive inflow from the turkey nest dams (as described above – 63.5 ML/ yr). The storage tanks have a combined capacity of 202 kL (0.202 ML).

The role of these tanks in the post development options are discussed further in Section 3.

2.2.5 Padley Park/ Cemetery Creek

Cemetery Creek (via Padley Park) receives overflow from the town sump (as described above – 28.5 ML/ yr).

It also receives runoff directly from the townsite catchment. Current management includes collection and conveyance of stormwater runoff from hardstand areas to Cemetery Creek, a location adjacent to Padley Park, through four culverts on Absolon Street. Stormwater currently pools in the creek where it either evaporates or infiltrates. In larger rainfall events, runoff overflows through a series of salt lakes, ultimately discharging to Cemetery Creek west of Lake Grace townsite.

Runoff modelling considered the land use within the townsite catchment and various runoff coefficients to estimate the likely volume of runoff over a 10-year period. The water balance calculations indicate that there is, on average, approximately 14.1 ML/yr runoff from the direct catchment (townsite) into Padley Park (Appendix 6).

2.2.6 Inflow and Outflow Summary (Current Scenario)

Table 1: Inflow and Outflow Volume Summary

	Inputs				Outputs	
	Direct Rainfall	Direct catchment Volume	Volume from other dams	Evaporation	Pumped discharge to another dam	Overflow to another dam/ elsewhere
	ML/yr	ML/yr	ML/yr	ML/yr	ML/yr	ML/yr
CBH Dam	1.4	25.9	0	7.25	0	19.7
Town Sump	0.1	18.0	19.8	0.53	9.3	28.5
Turkey Nest Dams	2.2	59.3	9.3	11.6	63.5	0
Cemetery Creek	14.1	14.1	28.5	68.9	0	0
Oval Storage Tanks	0	0	63.5	0	0	0

3 PRELIMINARY CONCEPT

3.1 Basin and Storage Options Assessment

A post development water balance was set up to assess the impact of various sizing opportunities for a stormwater basin within Padley Park. A schematic of the post development water balance (ultimate option presented) is shown in Figure 4 and the Padley Park post development options water balance is provided in Appendix 7.

A number of options were investigated to determine what the changes in sizing would have on the reliability of the supply. The reliability of the supply is defined as the percentage of the total irrigation water demand volume that can be supplied by the volume of stormwater harvested. The predevelopment (current scenario) option shows that the current system has a reliability of 46%.

The options investigated are presented in the table below.

Table 2: Padley Park Basin and Storage Tank Sizing Options

Option	Padley Park Basin Volume kL	Storage Tank kL	Reliability of Supply %	Supply deficit from optimal irrigation requirements ML/annum
Current Scenario	0	202	46%	29.9*
Post Development Option Scenarios				
Option 1	5,500	202	49%	31.1
Option 2	13,000	202	51%	29.8
Option 3	0	404	60%	24.0
Option 4	5,500	404	62%	22.9
Option 5	0	640	65%	21.3
Option 6	5,500	640	66%	20.7
Option 7	0	2,000	69%	18.6
Presented Option (Figure 4)	2,500	640	66%	20.7

**It should be noted that the 'Current Scenario' does not include post dev irrigation requirements for Padley Park, whereas all of the post development options include the supply of an additional 5.3 ML/annum for Padley Park irrigation.*

The option assessments are discussed below;

- Options 1 and 2 indicated that introducing a basin (or even a very large basin) into Padley Park, alone, has little impact on the reliability of supply (3-5% increase in reliability).
- Upon further investigation (Options 3 and 4) revealed that the constraining factor to reliability of supply was the storage tanks at the oval.
 - By doubling the storage available in the storage tanks, this increased the reliability of supply more than additional storage at Padley Park.
 - Option 3 showed that doubling the size of the storage tank near the ovals, even without an additional Padley Park basin, increased the reliability by 14%.
 - The water balances show that the reason for this is because there is sufficient water available from the stormwater catchments in the current system and in the current dams available, but that the rate at which water can be pumped to the ovals and the storage available directly adjacent to the ovals for direct input into the irrigation system is the constraining factor of the current system.
 - Option 4 demonstrated that introducing a basin as well as more storage tanks only increased supply by 2%.
- The demand water balance modelling indicated that the daily irrigation volume requirement at the ovals (when irrigating) was approximately 640kL/day (Appendix 2). Option 5 and 6 investigated increasing the storage tanks to this volume so an entire irrigation day could be supplied from the stormwater storage tanks.
 - Option 5 showed that even without a Padley park basin, increasing storage tank to a full days' irrigation requirement would increase the reliability of supply to 65% (19% increase from the current scenario).
 - Option 6 indicated that including a Padley Park basin only increased the reliability by 1% more.
- Option 7 looked at the sensitivity of increasing the storage volumes significantly (over a days' supply). This was found to increase the reliability by another 4% (to 69%) but the costs and area required for that option would be likely to be much greater (10 times the current storage as opposed to only 3 times the current storage presented in Options 5 and 6).
- The presented option offered what was considered the optimal storage tank volume size (640kL), with a reduced basin volume (in comparison to Option 6), while still achieving a reliability of supply of 66% (increase of 20% to the current scenario). This would supply approximately an additional 10 ML/yr at the ovals and supply the 5ML/yr of additional irrigation supply at the future Padley Park recreational area. The additional benefits of introducing a stormwater basin are presented in Section 3.2.

3.2 Preliminary Concept Design

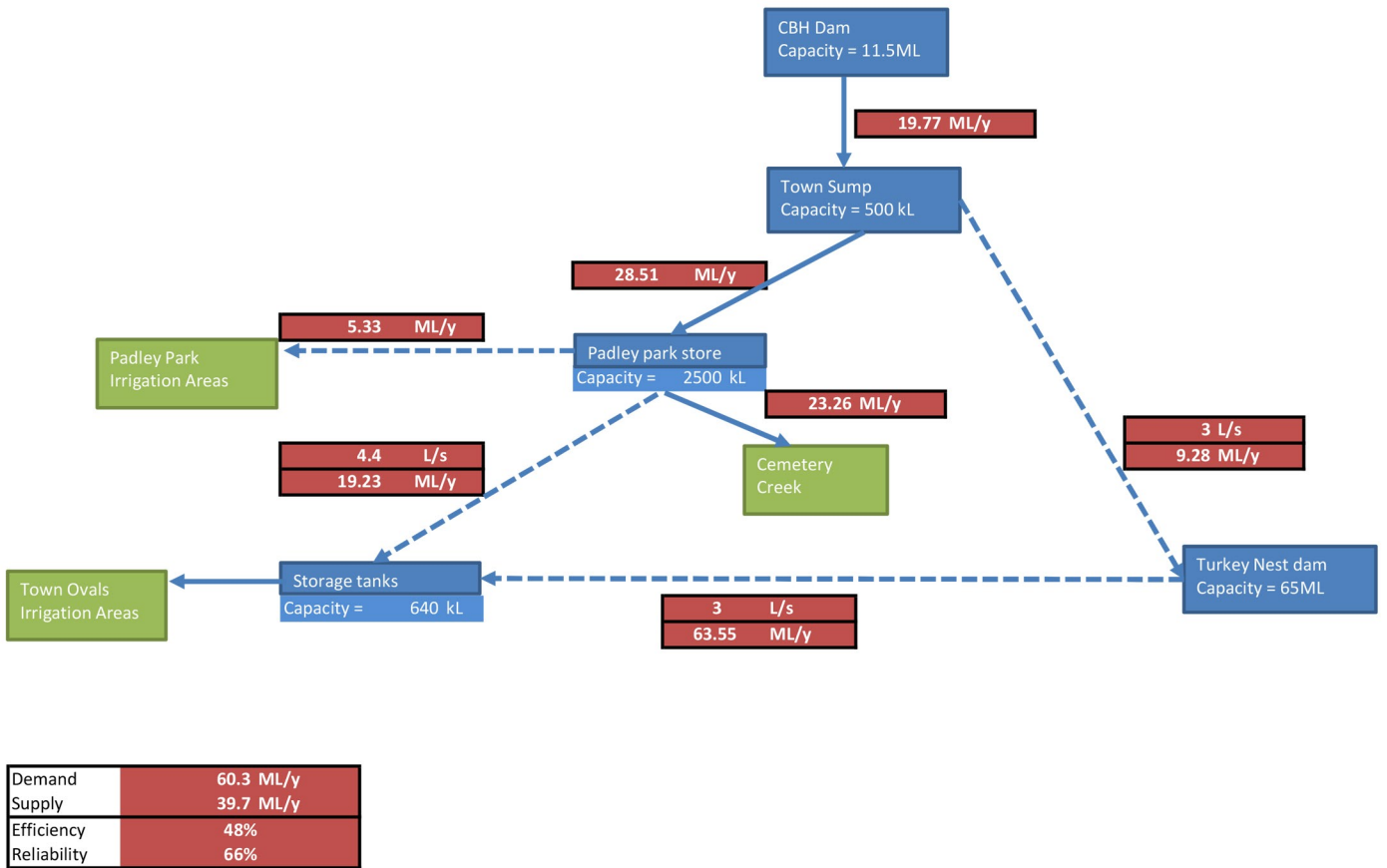
Although the water balance modelling indicated that a stormwater basin at Padley Park would not, in and of itself, offer a significant increase in the reliability of supply, there are still some benefits to providing a stormwater basin at Padley Park with a proposed increased in the storage tanks at the ovals. These are identified below;

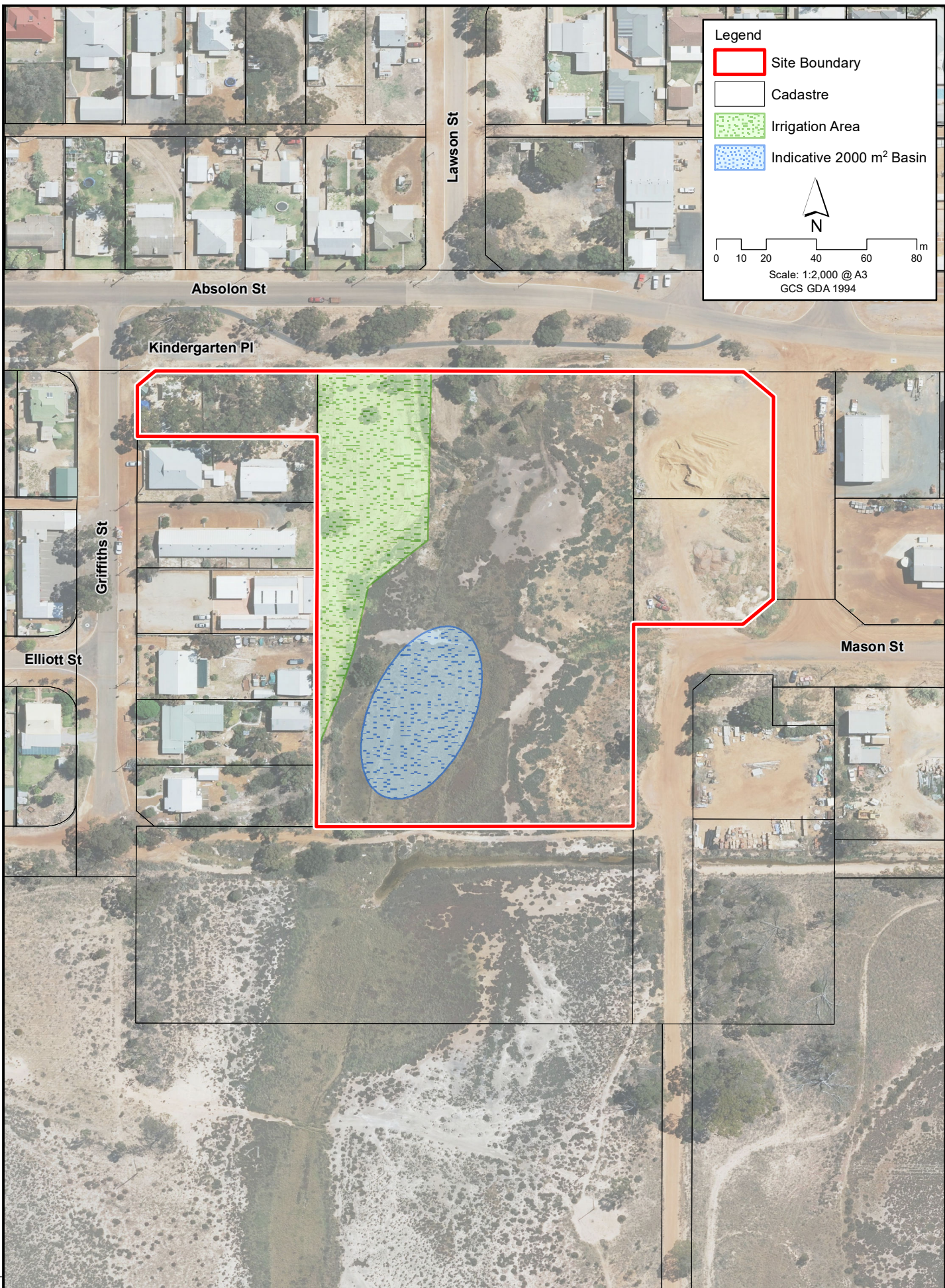
- Direct of local water supply for the future irrigated recreational area of Padley Park.
- Resultant increased amenity and aesthetic value to the Park.
- Reduced energy expenditure and energy costs due to reduced pumping – With the current scenario, stormwater is pumped from turkey nest dams. The turkey nest dams are located 4km away and therefore require more energy consumption to pump to the town ovals. Padley Park offers a closer alternative to increase the pumping rate per day to 7 L/s (from 3 L/s) to supply the 640kL storage tanks.

- Provides further emergency water for farmers during drought if required.

Figure 5 shows indicative sizing of the stormwater basin proposed in the 'presented option' (2,000m² area and 2,500m³ volume), along with the prospective irrigated area of Padley Park.

Appendix 7 shows the stormwater basin water levels fluctuations with the presented option basin size (2,500m³).





Legend

- Site Boundary
- Cadastre
- Irrigation Area
- Indicative 2000 m² Basin

N

0 10 20 40 60 80 m

Scale: 1:2,000 @ A3
GCS GDA 1994

4 FUTURE WORKS

4.1 Further Investigations

Given the results of the assessment, further consideration should be given to pursuing this basin and storage tank option, taking into account the increase in reliability of supply and reduce the amount of time the ovals would go without water. Should the results presented in this preliminary assessment provide sufficient evidence to the Shire that increase in supply is still considered worthwhile pursuing, then the following investigations would be the next steps in progressing the Padley Park stormwater basin option;

- Detailed design of the stormwater basin including but not limited to;
 - Further hydraulic and hydrological modelling to inform detailed design of the basin including levels and basin composition
 - Consideration of groundwater levels
 - Consideration of liner (HDPE or clay)
 - Survey
 - Geotechnical investigation of proposed area
- Assessment of environmental attributes of the proposed basin location and environmental approvals required, including but not limited to;
 - Clearing permits and requirements
 - Flora and/ or fauna assessments
 - Acid Sulfate Soil assessment
 - Salinity assessment
- Requirement of beds and banks permit (DWER)
- Further landscape design (and therefore irrigation requirements) of the possible future Padley park recreational area
- Further economic assessments of possible options (eg. whether it is better to increase the pump rates from existing dams, add more pipelines, or to introduce storage close to the ovals).

5 REFERENCES

GHD (2009). Report for IWM003 – Protection of Community Assets. Lake Grace Urban Stormwater Investigation.

GHD (2011). Report for Lake Grace Floodplain Management Study. Flood Mitigation Preliminary Design – Concept Development.

KBR (2005). Lake Grace Water Management Plan. PEN405-G-REP-005, Rev 1.

Wheatbelt Hydrology (2019). Waterway Assessment. Slarke Site Assessment & Plan, Lake Grace.

Appendix 1 Pre Development Water Balance Summary

WATER BALANCE CALCULATIONS
 Padley Park Water Balance - Options Analysis



Client **Shire of Lake Grace**
 Project **Padley Park**

Data Legend

	Input
	Variable Input
	Assumption
	Result
	Information
	Calculation

Description

Assessment of demands and availability for irrigation of Lake Grace ovals.

Demands modelled include existing POS town ovals and allowance for irrigation area within Padley park (3700sqm) only.

Availablility scenarios modelled are:

CEMETERY:
 Existing system including CBH dam catchment with overflow to town sump, town sump with overflow to Cemetery Creek, Cemetery Creek overflowing to offsite salt lake system. All elements are unlined and aquifer connected.

Padley (1):
 Option 1 proposed system including new constructed unlined storage basin at Padley Park (aquifer connected) pumping into onsite tanks at 4.4 L/s.

BALANCE
 Onsite tank performance assessment with pumped inflow from Padley Park.

Change since previous revision

Revision	By	Checked	Date
0	HBr	REp	1/09/2021
1			
2			

WATER BALANCE CALCULATIONS

Padley Park Water Balance - Options Analysis

Calculation Sheet **4**

Predevelopment balance at recreation centre tanks



Rainfall Data

Source	Lake Grace
Reference	10911

Storage Properties

effective storage vol	202	kL
initial storage	101	kL

Direct catchment properties

catchment area	10	m2
catchment IL	0	mm

Date	Rainfall mm
1/01/2011	0
2/01/2011	0
3/01/2011	0
4/01/2011	0
5/01/2011	0
6/01/2011	13.4
7/01/2011	0
8/01/2011	0
9/01/2011	0
10/01/2011	0
11/01/2011	0
12/01/2011	0
13/01/2011	0
14/01/2011	0
15/01/2011	0
16/01/2011	0
17/01/2011	0
18/01/2011	0
19/01/2011	0
20/01/2011	0

Irrigation demand

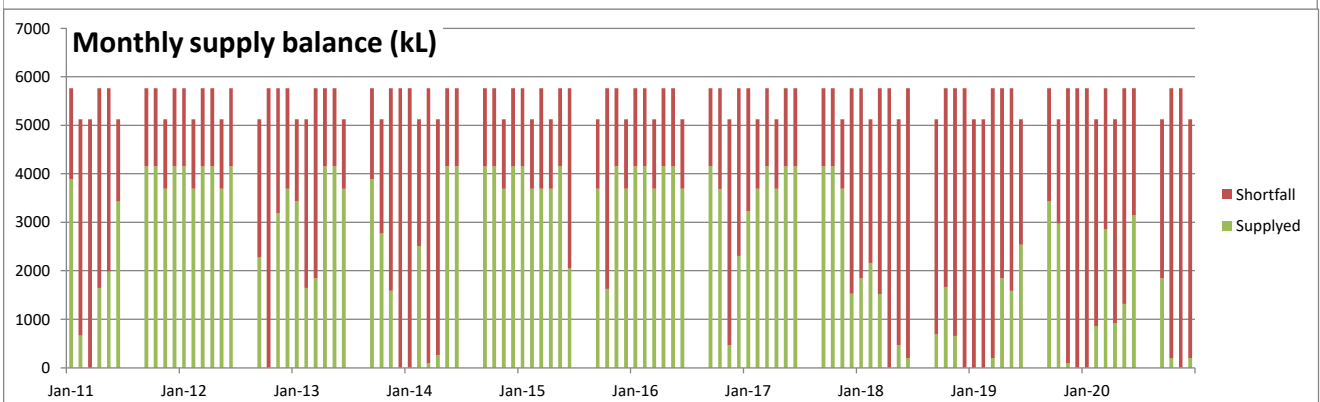
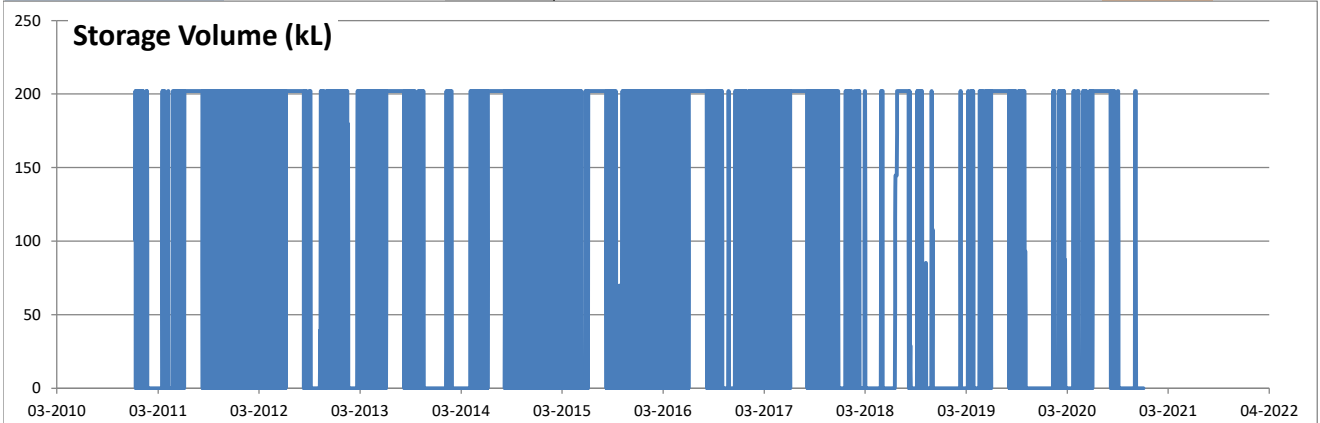
Total Area	40000	m2
Irrigated area	100	%
Irrigation event depth	16	mm
Irrigation event volume	640	kL
Frequency (days/week)	2	days
Season length	10	months

Irrigation Schedule

Month		Day	
Jan	TRUE	Mon	TRUE
Feb	TRUE	Tues	FALSE
Mar	TRUE	Wed	FALSE
Apr	TRUE	Thurs	FALSE
May	TRUE	Fri	TRUE
Jun	TRUE	Sat	FALSE
Jul	FALSE	Sun	FALSE
Aug	FALSE		
Sep	TRUE		
Oct	TRUE		
Nov	TRUE		
Dec	TRUE		

Model Results

	Total (kL / 10 years)		
Balance	-101	-16%	
Inflow from Turkey Dam	635	100%	
Inflow from Padley Pk	0	0%	
Rainfall inflow	0	0%	
Total Inflow	636		
Overflow	381	60%	
Captured and Reused	254	40%	
Use			
	Demand	Supplied	Shortfall
Irrigation	553600	254287	299313
Total	553600	254287	299313
Capture efficiency	40%		
Supply reliability	46%		



Appendix 2 Post Development Water Balance Summary

WATER BALANCE CALCULATIONS

Padley Park Water Balance - Options Analysis

Calculation Sheet **1**

Post-development balance at recreation centre tanks



Rainfall Data

Source **Lake Grace**
Reference **10911**

Storage Properties

effective storage vol **640** kL
initial storage **320** kL

Direct catchment properties

catchment area **10** m2
catchment IL **0** mm

Date Rainfall mm

1/01/2011	0
2/01/2011	0
3/01/2011	0
4/01/2011	0
5/01/2011	0
6/01/2011	13.4
7/01/2011	0
8/01/2011	0
9/01/2011	0
10/01/2011	0
11/01/2011	0
12/01/2011	0
13/01/2011	0
14/01/2011	0
15/01/2011	0
16/01/2011	0
17/01/2011	0
18/01/2011	0
19/01/2011	0
20/01/2011	0
21/01/2011	0

Irrigation demand

Town Ovals	39900	m2
Padley park	3700	m2
Total Area	43600	m2
Irrigated area	100	%
Irrigation event depth	16	mm
Padley Irrigation event volume	59.2	kL
Ovals Irrigation event volume	638.4	kL
Total Irrigation event volume	697.6	kL
Frequency (days/week)	2	days
Season length	10	months

Irrigation Schedule

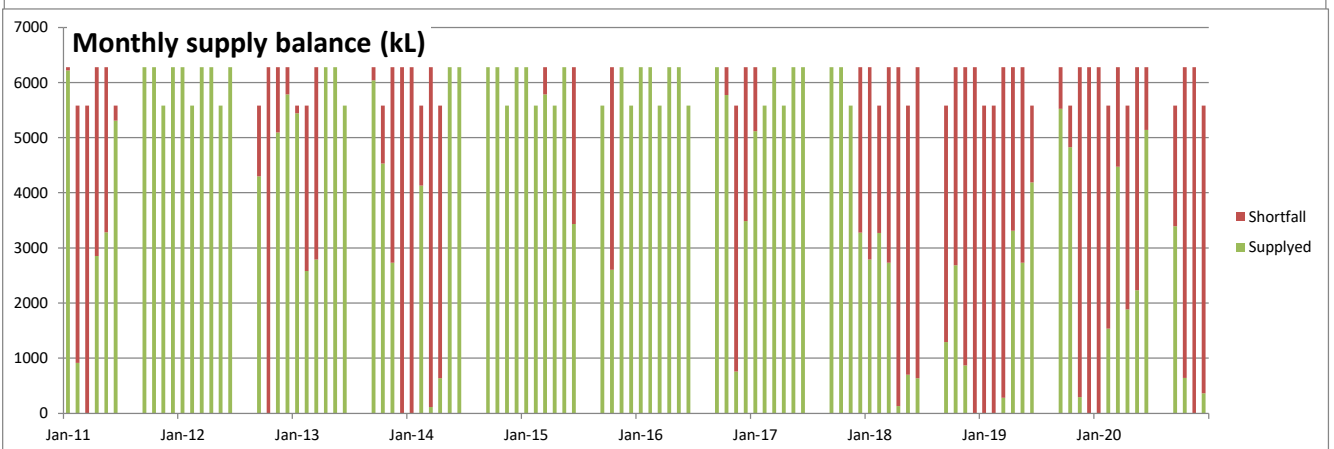
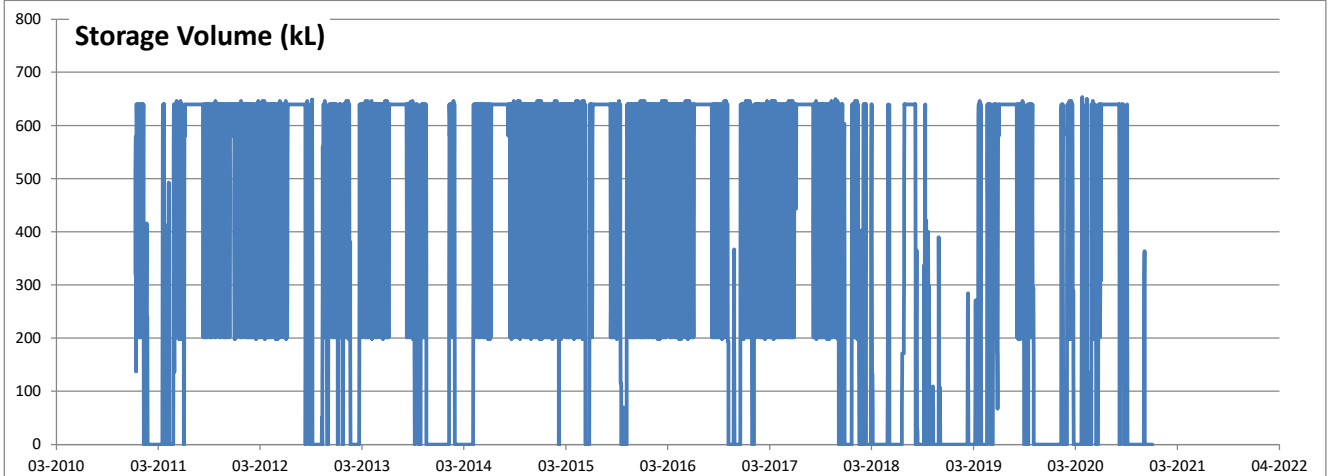
Month		Day	
Jan	TRUE	Mon	TRUE
Feb	TRUE	Tues	FALSE
Mar	TRUE	Wed	FALSE
Apr	TRUE	Thurs	FALSE
May	TRUE	Fri	TRUE
Jun	TRUE	Sat	FALSE
Jul	FALSE	Sun	FALSE
Aug	FALSE		
Sep	TRUE		

Model Results

	Total (kL / 10 years)	
Balance	-320	-39%
Inflow from Turkey Dam	635	77%
Inflow from Padley Pk	192	23%
Rainfall inflow	0	0%
Total Inflow	828	
Overflow	432	52%
Captured and Reused	397	48%

Use	Demand	Supplied	Shortfall
Irrigation	603424	396557	206867
Total	603424	396557	206867

Capture efficiency **48%**
Supply reliability **66%**



Appendix 3 CBH Dam Water Balance Summary

WATER BALANCE CALCULATIONS
Padley Park Water Balance - Options Analysis



Calculation Sheet **7**

Scenario Unmodified outer Dam
Inf Model Aquifer connected

Rainfall Data
Source Lake Grace
Reference 10911

Climate Data

Date	Rainfall mm	Month	Pan Evap mm/month	mm/day	Surr GWL m AHD
1/01/2011	0	Jan	271	8.7	290
2/01/2011	0	Feb	218	7.5	290
3/01/2011	0	Mar	190	6.1	290
4/01/2011	0	Apr	117	3.9	290
5/01/2011	0	May	73	2.4	290
6/01/2011	13.4	Jun	51	1.7	290
7/01/2011	0	Jul	51	1.6	290
8/01/2011	0	Aug	66	2.1	290
9/01/2011	0	Sep	94	3.1	290
10/01/2011	0	Oct	153	4.9	290
11/01/2011	0	Nov	202	6.7	290
12/01/2011	0	Dec	257	8.3	290
13/01/2011	0	Jan	271	8.7	290

Dam Surface Area Contours		
Level	Area (m2)	Storage
290.28	2825	0
293.4	4600	11583

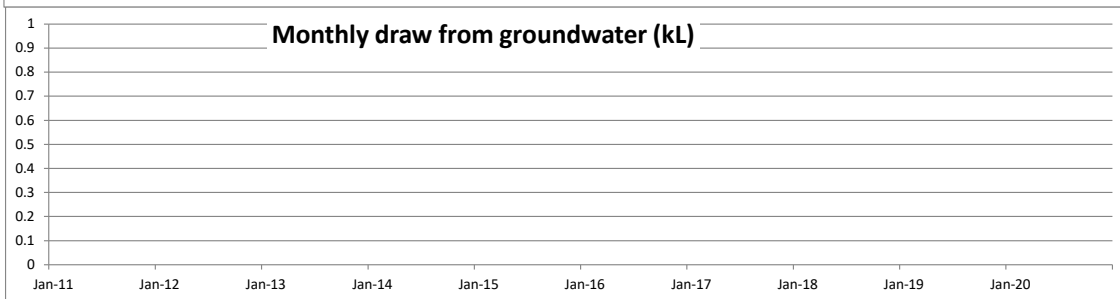
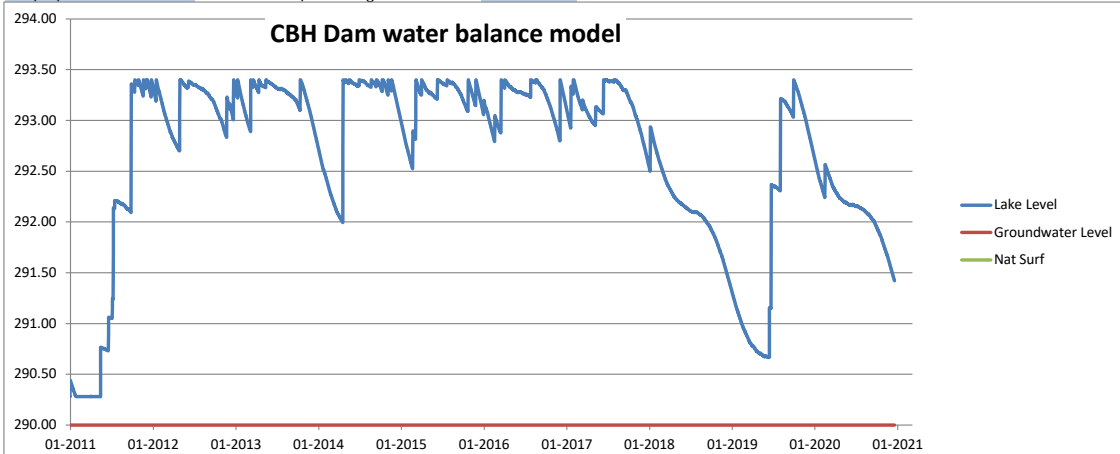
Model Results	Total (ML)
Change in Storage	2.59

Model Inputs		
initial water level	290.00	mAD
pan evaporation factor	1.00	El/Ep
aquifer conductivity - 10 ⁶		m/s
aquifer conductivity	1	m/day
distance of influence	150	m
base of aquifer	0	m
base of lake	290.28	m AD
depression storage	12	mm
Catchment runoff coefficient	1	
natural surface level	292	mAD
site area draining to lake	42.43	ha
overflow level	293.4	m
max volume	11582.9773	m3
d/s discharge level	291.96	m

INPUTS	Total over 10 yrs	Peak Annual
Direct Rainfall	14	1.82
Catchment Runoff	259	61.55
Other inflows	0	0.00

OUTPUTS	Total over 10 yrs	Peak Annual
Evaporation	72.5	7.79
Net seepage to GW	0.0	0.00
Outflow to town sump	197.7	55.38

Annual Demand	ML
Maximum	0.0
Minimum	0.0
Average	0.0



Appendix 4 Town Sump Water Balance Summary

WATER BALANCE CALCULATIONS
Padley Park Water Balance - Options Analysis



Calculation Sheet 6

Scenario Unmodified town sump
Inf Model Aquifer connected

Rainfall Data
Source Lake Grace
Reference 10911

Climate Data

Date	Rainfall mm	Month	Pan Evap mm/month	mm/day	Surr GWL m AHD
1/01/2011	0	Jan	271	8.7	284
2/01/2011	0	Feb	218	7.5	284
3/01/2011	0	Mar	190	6.1	284
4/01/2011	0	Apr	117	3.9	284
5/01/2011	0	May	73	2.4	284
6/01/2011	13.4	Jun	51	1.7	284
7/01/2011	0	Jul	51	1.6	284
8/01/2011	0	Aug	66	2.1	284
9/01/2011	0	Sep	94	3.1	284
10/01/2011	0	Oct	153	4.9	284
11/01/2011	0	Nov	202	6.7	284
12/01/2011	0	Dec	257	8.3	284
13/01/2011	0	Jan	271	8.7	284

Sump Surface Area Contours		
Level	Area (m2)	Storage
284.19	289	0
285.34	574	496

Model Results	Total (ML)
Change in Storage	88.38

INPUTS	Total over 10 yrs	Peak Annual
Direct Rainfall	1	0.2
Catchment Runoff	180	27.1
Inflow from CBH	198	55.4

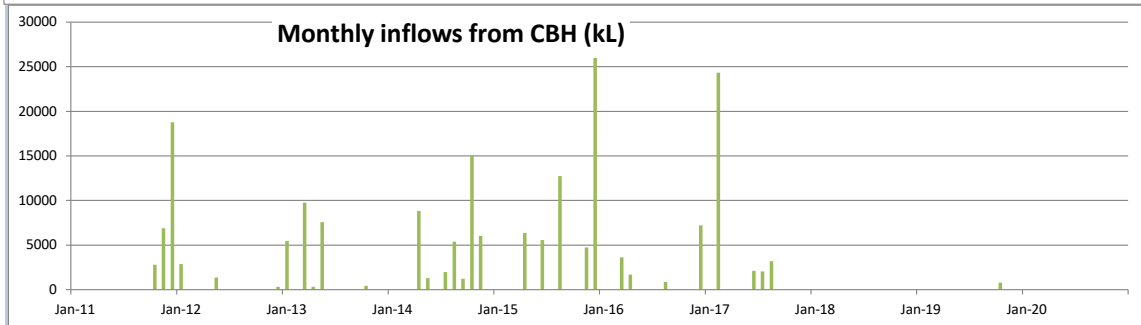
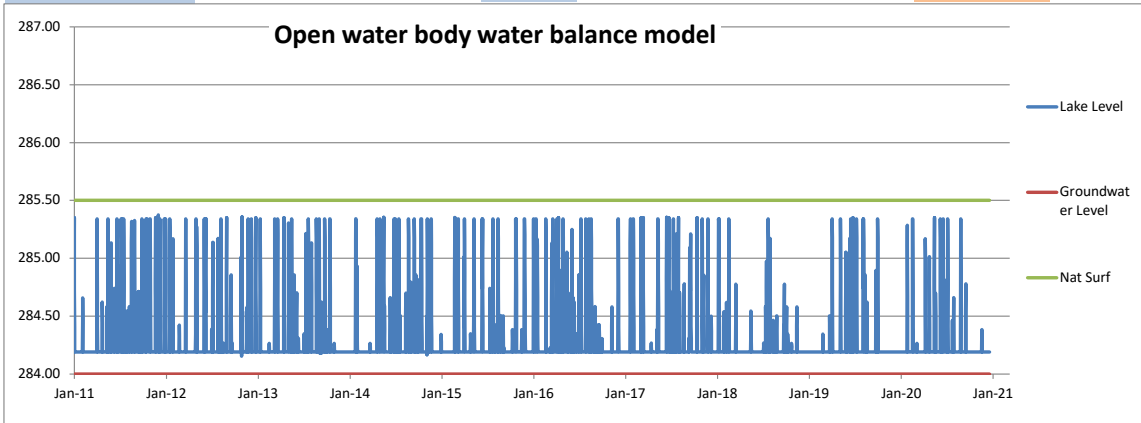
OUTPUTS	Total over 10 yrs	Peak Annual
Evaporation	5.3	0.6
Net seepage to GW	0.0	0.0
Outflow to Turkey Dam	92.8	12.8
Overflow to Cemetery Ck	285.1	72.6

Model Inputs

initial water level	280.55	mAD
pan evaporation factor	1.00	El/Ep
aquifer conductivity - 10^6		m/s
aquifer conductivity	1	m/day
distance of influence	150	m
base of aquifer	0	m
base of lake	284.19	m AD
depression storage	2	mm
Catchment runoff coefficient	1	
natural surface level	285.5	mAD
site area draining to lake	8.44	ha
overflow level	285.34	m
max volume	496.22342	m3
d/s discharge level	284.85	m
pump rate	3	L/s

Annual inflow from CBH	ML
Maximum	55.4
Minimum	0.0
Average	19.8

Annual outflow to turkey n	ML
Maximum	12.8
Minimum	5.1
Average	9.3



Appendix 5 Turkey Nest Water Balance Summary

WATER BALANCE CALCULATIONS
Padley Park Water Balance - Options Analysis



Calculation Sheet **8**

Scenario Unmodified town sump
Inf Model Aquifer connected

Rainfall Data
Source Lake Grace
Reference 10911

Climate Data

Date	Rainfall mm	Month	Pan Evap mm/month	mm/day	Surr GWL m AHD
1/01/2011	0	Jan	271	8.7	280
2/01/2011	0	Feb	218	7.5	280
3/01/2011	0	Mar	190	6.1	280
4/01/2011	0	Apr	117	3.9	280
5/01/2011	0	May	73	2.4	280
6/01/2011	13.4	Jun	51	1.7	280
7/01/2011	0	Jul	51	1.6	280
8/01/2011	0	Aug	66	2.1	280
9/01/2011	0	Sep	94	3.1	280
10/01/2011	0	Oct	153	4.9	280
11/01/2011	0	Nov	202	6.7	280
12/01/2011	0	Dec	257	8.3	280
13/01/2011	0	Jan	271	8.7	280

Sump Surface Area Contours		
Level	Area (m2)	Storage
280	6000	0
287	13500	68250

Model Results	Total (ML)
Change in Storage	590.90

INPUTS	Total over 10 yrs	Peak Annual
Direct Rainfall	22	3.2
Catchment Runoff	593	89.2
Inflow from town sump	93	12.8

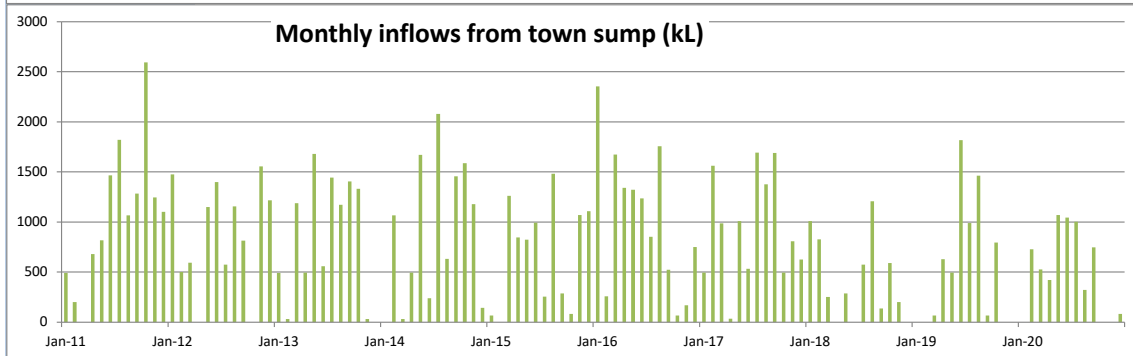
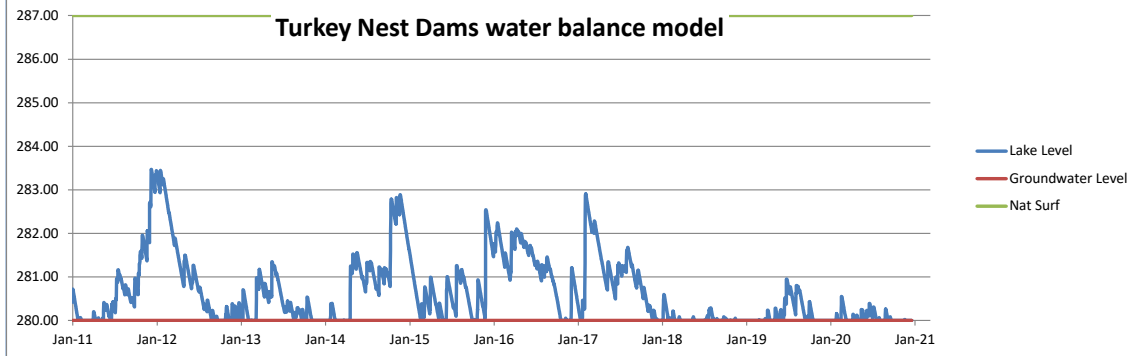
OUTPUTS	Total over 10 yrs	Peak Annual
Evaporation	116.5	13.0
Net seepage to GW	0.0	0.0
Outflow to tanks	635.5	23.1
Overflow as Stormwater	0.0	0.0

Annual inflow from Town	ML
Maximum	12.8
Minimum	5.1
Average	9.3

Annual outflow to tanks	ML
Maximum	87.4
Minimum	23.1
Average	63.5

Model Inputs

initial water level	280.55	mAD
pan evaporation factor	1.00	EI/Ep
aquifer conductivity - 10^4		m/s
aquifer conductivity	1	m/day
distance of influence	150	m
base of aquifer	0	m
base of lake	280	m AD
depression storage	2	mm
Catchment runoff coefficient	1	
natural surface level	287	mAD
site area draining to lake	27.8	ha
overflow level	287	m
max volume	68250	m3
d/s discharge level	284.85	m
pump rate	3	L/s



Appendix 6 Cemetery Creek Water Balance Summary

WATER BALANCE CALCULATIONS
Padley Park Water Balance - Options Analysis



Calculation Sheet **5**

Scenario Unmodified Cemetery Creek
Inf Model Aquifer connected

Rainfall Data
Source Lake Grace
Reference 10911

Climate Data

Date	Rainfall mm	Month	Pan Evap mm/month	mm/day	Surr GWL m AHD
1/01/2011	0	Jan	271	8.7	283
2/01/2011	0	Feb	218	7.5	283
3/01/2011	0	Mar	190	6.1	283
4/01/2011	0	Apr	117	3.9	283
5/01/2011	0	May	73	2.4	283
6/01/2011	13.4	Jun	51	1.7	283
7/01/2011	0	Jul	51	1.6	283
8/01/2011	0	Aug	66	2.1	283
9/01/2011	0	Sep	94	3.1	283
10/01/2011	0	Oct	153	4.9	283
11/01/2011	0	Nov	202	6.7	283
12/01/2011	0	Dec	257	8.3	283
13/01/2011	0	Jan	271	8.7	283
14/01/2011	0				
15/01/2011	0				
16/01/2011	0				
17/01/2011	0				
18/01/2011	0				
19/01/2011	0				
20/01/2011	0				
21/01/2011	0				
22/01/2011	0				
23/01/2011	0.6				
24/01/2011	1				
25/01/2011	1.6				
26/01/2011	0				
27/01/2011	0				
28/01/2011	0				
29/01/2011	0.6				

Creek Surface Area Contours

Level	Area (m2)	Perimeter
283	22600	
284	660374	

Model Results

	Total (ML)
Change in Storage	-121.97

Model Inputs

initial water level	283.00	mAD
pan evaporation factor	1.00	El/Ep
aquifer conductivity - 10 [^]		m/s
aquifer conductivity	1	m/day
distance of influence	150	m
base of aquifer	0	m
base of lake	283	m AD
depression storage	2	mm
Catchment runoff coefficient	1	
natural surface level	284	mAD
site area draining to lake	6.6	ha
overflow level	284	m
max volume	341487	m3
d/s discharge level	284	

INPUTS

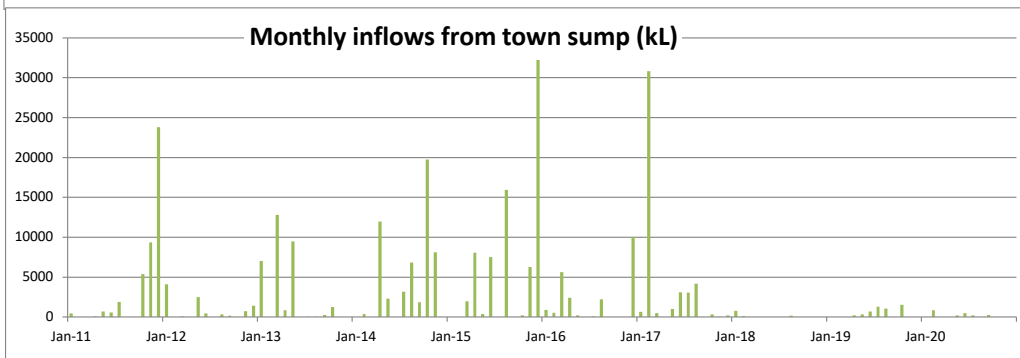
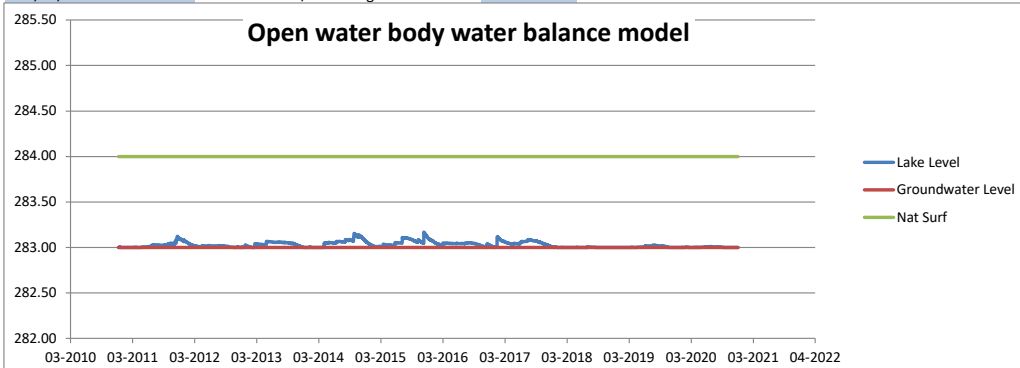
	Total over 10 yrs
Direct Rainfall	141
Catchment Runoff	141
Inflow from Town sump	285

OUTPUTS

Evaporation	689.0
Net seepage to GW	0.0
Overflow as Stormwater	0.0

Annual Inflow from town

	ML
Maximum	72.6
Minimum	1.1
Average	28.5



Appendix 7 Padley Park Stormwater Water Balance Summary

WATER BALANCE CALCULATIONS
Padley Park Water Balance - Options Analysis



Calculation Sheet **2**

Scenario Unlined basin/sump
Inf Model Aquifer connected

Rainfall Data
Source Lake Grace
Reference 10911

Climate Data

Date	Rainfall mm	Month	Evap mm/month	mm/day	Surr GWL m AHD
1/01/2011	0	Jan	271	8.7	280
2/01/2011	0	Feb	218	7.5	280
3/01/2011	0	Mar	190	6.1	280
4/01/2011	0	Apr	117	3.9	280
5/01/2011	0	May	73	2.4	280
6/01/2011	13.4	Jun	51	1.7	280
7/01/2011	0	Jul	51	1.6	280
8/01/2011	0	Aug	66	2.1	280
9/01/2011	0	Sep	94	3.1	280
10/01/2011	0	Oct	153	4.9	280
11/01/2011	0	Nov	202	6.7	280
12/01/2011	0	Dec	257	8.3	280
13/01/2011	0	Jan	271	8.7	280

Lake Surface Area Contours			
Level	Area (m2)	Perimeter	Storage
280	500		0
282	2000		2500

Model Inputs

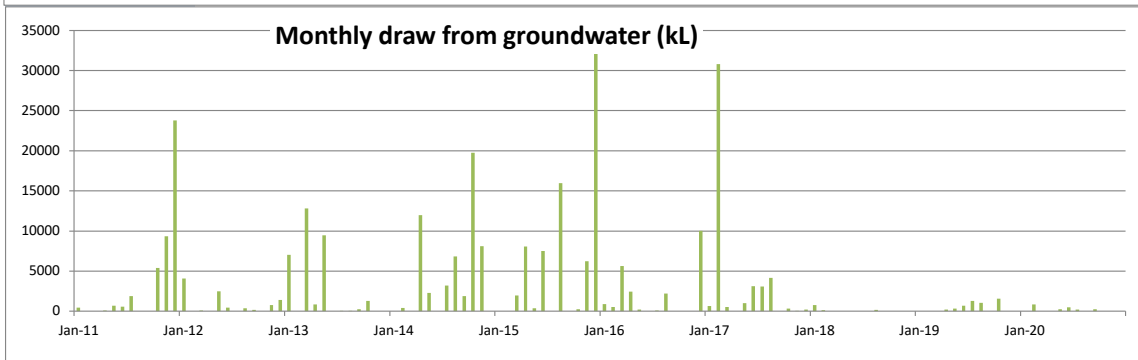
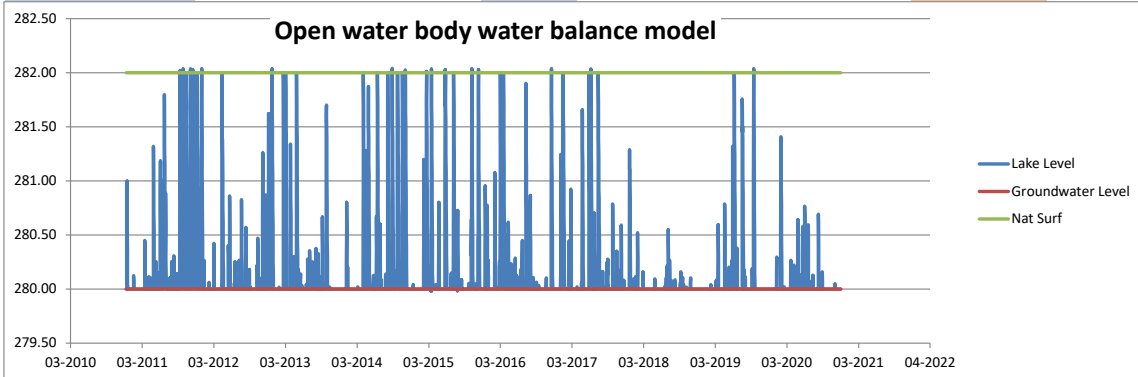
16/01/2011	0	initial water level	280.00	mAD
17/01/2011	0	pan evaporation factor	1.00	El/Ep
18/01/2011	0	aquifer conductivity - 10 ⁴		m/s
19/01/2011	0	aquifer conductivity	1	m/day
20/01/2011	0	distance of influence	150	m
21/01/2011	0	base of aquifer	0	m
22/01/2011	0	base of lake	280	m AD
23/01/2011	0.6	depression storage	2	mm
24/01/2011	1	Catchment runoff coefficient	1	
25/01/2011	1.6	natural surface level	282	mAD
26/01/2011	0	site area draining to lake	6.6	ha
27/01/2011	0	overflow level	282	m
28/01/2011	0	max volume	2500	m3
29/01/2011	0.6	pump rate	4.3889	L/s

Model Results	Total (ML)
Change in Storage	185.12

INPUTS	Total over 10 yrs	Peak Annual
Direct Rainfall	2	0.4
Catchment Runoff	141	21.2
Inflow from town sump	285	72.6

OUTPUTS	Total over 10 yrs	Peak Annual
Evaporation	10.3	1.2
Net seepage to GW	0.0	0.0
Outflow to tanks		
Overflow as Stormwater	232.6	69.9

Annual available volumes	ML
Maximum	29.6
Minimum	5.8
Average	19.2





Client: Shire of Lake Grace

Report	Version	Prepared by	Reviewed by	Submitted to Client	
				Copies	Date
Preliminary draft	Rev 0	REp	REp	Electronic	Sept 2021

Urbaqua

land & water solutions

Suite 4/226 Carr Place

p: 08 9328 4663 | f: 08 6316 1431

e: info@urbaqua.org.au

www.urbaqua.org.au



Wheatbelt South Regional Road Group

Reference information for Elected Members on a Regional Road Group

June 2021

This reference information aims to inform Elected Members of a Regional Road Group of matters pertinent to the business of that Group.

Specifically, the contents will inform Elected Members of:

- State Road Funds to Local Government Agreement
- Role of the State Road Funds to Local Government Advisory Committee
- Terms of Reference for a Regional Road Group
- Regional Strategies for Significant Local Government roads
- Restricted Access Vehicle (RAV) network
- Accredited Mass Management Scheme (AMMS)
- Funding sources for road projects
- Key Performance Indicators for a Regional Road Group
- WALGA RoadWise

Contact:

Ian Duncan

Executive Manager, Infrastructure Unit

WALGA

ONE70, LV 1, 170 Railway Parade West Leederville

Phone: (08) 9213 2031

Fax: (08) 9213 2077

Mobile: 0439 947 716

Email: iduncan@walga.asn.au

Website: www.walga.asn.au

Document Information

Author:	Western Australian Local Government Association
Title:	Reference information for Elected Members on a Regional Road Group
Version:	1.3
Version date:	June 2021
Review date:	January 2022

Table of Contents

1.0	Regional Road Groups	4
2.0	Regional Road Sub-Groups or Technical Groups	4
3.0	State Road Funds to Local Government Agreement.....	5
4.0	State Road Funds to Local Government Advisory Committee	6
	Membership	6
	Responsibilities	7
5.0	Wheatbelt South Regional Road Group Police and Procedure Manual	7
6.0	Regional Strategies for Significant Local Government Roads.....	7
7.0	Level One Bridge Inspections	8
8.0	Key Performance Indicators for Regional Road Groups	8
	Expenditure performance	9
	Asset management	9
	Road safety.....	9
	Local road inventory data	9
9.0	Restricted Access Vehicle (RAV) Network.....	9
	As of right vehicles.....	10
10.0	Accredited Mass Management Scheme (AMMS)	10
11.0	Informing Own Councils	10
12.0	WALGA RoadWise.....	11
13.0	Main Roads WA Contact	11
14.0	WALGA Contacts	11
15.0	ANNEXURE 1 - Terms of Reference for Regional Road Groups	12
16.0	ANNEXURE 2 - Road Funding Sources	17
17.0	ANNEXURE 3 – Indicative timetable for funding submissions	19
18.0	ANNEXURE 4 - Key Performance Indicators.....	21
19.0	ANNEXURE 5 – Profile of Wheatbelt South Regional Road Group	25

1.0 Regional Road Groups

The State Road Funds to Local Government Agreement mandates the existence and operation of Regional Road Groups, which the State Road Funds to Local Government Advisory Committee oversees.

The State Roads to Local Government management structure identified the following Regional Road Groups:

- Gascoyne
- Goldfields-Esperance
- Great Southern
- Kimberley
- Metropolitan
- Mid-West
- Pilbara
- South West
- Wheatbelt North
- Wheatbelt South

The Chairperson of a Regional Road Group shall be an Elected Member.

A Regional Road Group is responsible for

- Assessing road-funding submissions from its member Local Governments.
- The annual distribution of funds to Local Government roads.
- Monitoring and reporting on the effectiveness of applying funds to Local Government roads in its region.

Main Roads Western Australia provides technical and administrative support to Regional Road Groups.

See Annexure 1 for Terms of Reference for a Regional Road Group and Annexure 5 for the profile of the Wheatbelt South Regional Road Group.

2.0 Regional Road Sub-Groups or Technical Groups

Regional Road Sub Group

A Regional Road Group may establish a Regional Road Sub Group(s) to:

- Assist to identify road-funding priorities.
- Consider local road issues to inform decision making by the Regional Road Group.
- Provide advice to the Regional Road Group.

A Regional Road Group will determine and approve the Terms of Reference for a Regional Road Sub Group(s). The Terms of Reference will include:

- Roles and responsibilities of the Sub Group(s).
- Process to elect the Chairperson.
- Membership of the Sub Group(s).
- Voting rights within the Sub Group(s).
- Voting rights of the Sub Group(s) at the Regional Road Group.

Elected Members can be members of a Regional Road Sub-Group(s).

A Local Government may apply to the Regional Road Group to transfer from one Sub Group to another.

Regional Road Technical Group

A Regional Road Group may establish a Regional Road Technical Group to assist with management and consideration of local road issues; and provide technical advice as requested.

- Assist to identify road-funding priorities.
- Consider local road issues to inform decision making by the Regional Road Group.
- Provide technical advice to the Regional Road Group.

A RRG will determine and approve the Terms of Reference for a Regional Road Technical Group(s). The Terms of Reference will include:

- Roles and responsibilities of the Technical Group(s).
- Process to elect the Chairperson.
- Membership of the Technical Group(s).

The Technical Group(s) is an advisory group with no voting rights at the Regional Road Group.

Elected Members can be members of a Technical Group(s); however, ordinarily, Local Government technical staff comprise a Regional Road Technical Group.

A Local Government may apply to the Regional Road Group to transfer from one Technical Group to another.

3.0 State Road Funds to Local Government Agreement

The State Road Funds to Local Government Agreement (the Agreement) is a formal agreement between State and Local Government in Western Australia.

The Agreement is intended to ensure that the funds available from State Government sources for local roads are allocated across the State of Western Australia, focusing on areas of strategic importance and areas that will provide maximum benefit. The needs of all road users and the Western Australian community will be considered during the distribution process. (State Road Funds to Local Government Agreement, Guiding Principles, page 2)

The current Agreement expires in 2022/2023 and states, “On an annual basis, the share of State road funds to be allocated on Local Government roads will be equivalent of the State Budget estimated motor vehicle licence fees for that year.” (State Road Funds to Local Government Agreement, Funding sources, page 3)

The Agreement recognises and determines the membership of:

- State Road Funds to Local Government Advisory Committee
- Regional Road Groups
- Regional Road Sub Groups (if considered necessary)

Under the Agreement the available funding is split into two categories:

1. Local Government Managed Programs (Category 1)
2. Main Roads Western Australia Managed Programs (Category 2)

The Agreement (page 3) is projected to produce annual allocations from State road funds to Local Government roads for the years 2018/19 to 2022/23 as per the following schedule:

2018/19	2019/20	2020/21	2021/22	2022/23
\$182.3 million	\$188.9 million	\$193.4 million	\$198.4 million	\$203.4 million

The revenue is to be distributed to Local Government roads on the basis of¹:

Local Government Managed Programs

(Category 1): 66%

- Direct Grants
- Road Project Grants
- State Black Spot
- Strategic and Technical Support

Main Roads Western Australian Managed Programs

(Category 2): 34%

- State Initiatives on Local Roads
- Traffic Management, Signs and Pavement Markings
- Bridgeworks and Inspections
- Remote Aboriginal Access Roads
- Regional Road Group Support

The allocation to the categories and sub categories will move in line with the total Agreement pool or as otherwise approved by the State Road Funds to Local Government Advisory Committee. (State Road Funds to Local Government Agreement, page 4)

4.0 State Road Funds to Local Government Advisory Committee

The Agreement stipulates the State Road Funds to Local Government Advisory Committee (SAC) will oversee, monitor and recommend to the Minister for Transport the distribution of State funds to Local Government roads.

The SAC sets and is responsible for the procedures covering the administration and functioning of the Agreement.

Membership

The SAC consists of:

- Managing Director of Main Roads Western Australia.
- Chief Executive Officer of the Western Australian Local Government Association (or their nominee).
- Four elected State Councillors as nominated by the Western Australian Local Government Association.
- Four Main Roads Western Australia senior officers nominated by the Managing Director of Main Roads.

The Managing Director of Main Roads Western Australia chairs the SAC.

¹ See Annexure 2: Road Funding Sources, and Annexure 3: Indicative timetable for Funding Submissions.

Responsibilities

The responsibilities of SAC include:

- Recommending the annual local roads program to the Managing Director, Main Roads WA (for consideration by the Minister for Transport).
- Monitoring the delivery and acquittal of funded programs/projects.
- Redistributing funds between projects, programs and Regional Road Groups if required to suit delivery progress/schedules.
- Reviewing individual Regional Road Group procedures.
- Set procedures covering the administration and functioning of the Agreement.
- Responding to transport issues received from Regional Road Groups, Local Government and Main Roads WA.
- Deciding and approving changes to relevant policies and processed affecting the Agreement.
- Responding to transport issues received from Regional Road Groups, Local Government and MRWA.

The SAC meets four times each year and meeting agendas/minutes are on the WALGA website at: <http://walga.asn.au/Policy-Advice-and-Advocacy/Infrastructure/Funding.aspx>

5.0 Wheatbelt South Regional Road Group Policy and Procedure Manual

The Wheatbelt South Regional Road Group has a document titled “Wheatbelt South Regional Road Group Policy and Procedure Manual”. The manual provides information on:

- Purpose of the Regional Road Group
- Composition of the Wheatbelt South Regional Road Group
- Administrative Support
- Meetings
- Direct Grants
- Road Project Grants
- BlackSpot Funding
- Regional Run Off Crashes Program
- Commodity Route Supplementary Funding
- Payments Road Project, Commodity Route, State BlackSpot and Regional Run Off Crashes Programs
- Local Roads of Regional Significance

The Main Roads WA Wheatbelt Regional Office can provide a copy of the manual.

6.0 Regional Strategies for Significant Local Government Roads

Each Regional Road Group has a document known as *Regional Strategies for Significant Local Government Roads*. The document provides a strategic view of regionally significant Local Government roads and the development strategies for those roads. The current version of the document is *Roads 2030* and under development is *Roads 2040*.

A Memorandum of Understanding between the State Government and WALGA requires that Regional Road Groups review their road development strategies at five yearly intervals to assess the effects of changing circumstances and demand on the local road network.

Local Governments (via Regional Road Groups) work collaboratively to review their local road network to produce an agreed strategic approach to allocate limited funding across the extensive local road network in WA.

It is important to note that only projects on local roads included in the current version of *Regional Strategies for Significant Local Government Roads* are eligible for Road Project Grant funding under the current State Roads Funds to Local Government Agreement.

See Annexure 2 for a breakdown of State Government and Federal Government funding sources for Local Government roads.

The SAC must endorse any amendment to a Regional Road Group's *Regional Strategies for Significant Local Government Roads* document. If a Regional Road Group seeks an amendment for a road crossing into an adjoining region, SAC requires evidence of agreement with the adjoining Regional Road Group.

Access the current version of *Regional Strategies for Significant Local Government Roads* for each Regional Road Group:
<http://walga.asn.au/Policy-Advice-and-Advocacy/Infrastructure/Roads/Roads-2030-Regional-Road-Development-Strategies.aspx>

7.0 Level One Bridge Inspections

Local Governments are responsible for bridges on local roads and must perform annual level-one inspections of bridges under their responsibility. Local Governments submit inspection reports to Main Roads WA. Demonstration of such inspections is critical for a Local Government to be eligible for funding from the Agreement to maintain or replace a bridge.

Main Roads WA performs other detailed technical inspections of bridges, known as level-two and level-three inspections, on behalf of and/or in consultation with Local Governments.

Main Roads WA will provide a list each year to every Regional Road Group to monitor annual level-one bridge inspections by member Local Governments. A Regional Road Group may discuss outstanding inspections and, if necessary, consult with Main Roads WA or WALGA to provide support.

To guide Local Governments in their responsibilities a *Level 1 Bridge Inspection Framework* is available on the WALGA website:
<https://walga.asn.au/getattachment/Policy-Advice-and-Advocacy/Infrastructure/Roads/Level-1-Bridge-Inspection-Framework-version1-2020-Final2.pdf?lang=en-AU>

8.0 Key Performance Indicators for Regional Road Groups

Part 7 of the Agreement relates to Key Performance Indicators (KPIs) for Regional Road Groups. Part 7 states, *Key Performance Indicators will focus on Expenditure Performance, asset management and road safety. KPIs have been established for monitoring purposes and no financial incentives or penalties will apply on the basis of performance against KPIs. Main Roads Western Australia and WALGA will prepare an annual KPI report for SAC. The report will be provided to the Regional Road Groups.*

Expenditure performance

- 1.1 Number of Regional Road Group meetings held. Minimum two meetings per year.
- 1.2 Percentage of Black Spot Programs funding expended. (Includes State Government and Australian Government Black Spot Programs). Target 90%.
- 1.3 Percentage of road project grants expended (includes commodity route supplementary funds projects). Target 90%.
- 1.4 Road project grant applications submitted to SAC (via Main Roads WA) by November each year.

Asset management

- 2.1 Percentage of sealed road length subject to a documented visual condition survey within the region in the previous 5 years. Target 50%.

Road safety

- 3.1 Metropolitan Regional Road Group only - Percentage of road project grant funded road improvements subject to road safety audits. Target 100%
- 3.2 Other Regional Road Groups - Percentage of Road Project Grant funded projects that include Safe System improvements to roads and roadsides. Target 50%.

Local road inventory data

- 4.1 Number of Local Governments by RRG that provide a road inventory data update to Main Roads WA for uploading into the IRIS database in the last three financial years. Target 100%.

Reporting on the KPIs commenced in 2012-2013. Annexure 4 is the KPI report for 2019/2020.

9.0 Restricted Access Vehicle (RAV) Network

The Restricted Access Vehicle (RAV) Network consists of ten levels of road network (i.e. RAV Network 1 to RAV Network 10) on which an approved category of restricted access (heavy) vehicle can be driven (i.e. category 1 restricted access vehicle to category 10 restricted access vehicle). Main Roads WA maintains an electronic list of all roads in the RAV Network.

A restricted access vehicle cannot travel on any road not listed in the RAV network - to do so is contrary to the law.

A higher category restricted access vehicle (e.g. a RAV 10) cannot be driven on a lower RAV rated road (e.g. a RAV 5 road); however, a lower category restricted access vehicle (e.g. a RAV 4) can be driven on a higher RAV rated road (e.g. a RAV 7 road).

Restricted Access Vehicles can only operate on a road (RAV route) approved by Main Roads WA. Vehicle operators may apply to Main Roads WA to add or amend a RAV route and it is the policy of Main Roads WA to refer applications to Local Governments for preliminary assessment.

To provide guidance to a Local Government when assessing an application to add or amend a road on the RAV network, WALGA developed a model policy known as "Policy for Assessing Applications to Operate Restricted Access Vehicles on Local Government Roads". Download the model policy from the WALGA website [here](#).

Main Roads WA maintains the following guidance documents for the RAV network:

1. Guidelines for Approving RAV Access
<https://www.mainroads.wa.gov.au/globalassets/heavy-vehicles/rav-access/access-guideline-approving-rav-access.pdf>
2. Standard Restricted Access Vehicle (RAV) Route Assessment Guidelines
<https://www.mainroads.wa.gov.au/globalassets/heavy-vehicles/rav-access/access-guide-standard-restricted-access-vehicle-rav-route-assessment-guidelines>

As of right vehicles

An *as of right vehicle* is any vehicle not a restricted access vehicle, for example, rigid trucks and semi-trailers. These vehicles may operate state-wide provided they are:

- Not a road train or b-double;
- Within regulation axle mass limits;
- Less than nineteen (19) metres in combination length or less than 12.5 metres in length for rigid vehicles;
- Less than 42.5 tonnes in total combination mass;
- Less than 2.5 metres wide (excluding mirrors and lights); and
- Less than 4.3 metres high.

10.0 Accredited Mass Management Scheme (AMMS)

The Accredited Mass Management Scheme (AMMS) is a scheme allowing heavy vehicles to carry additional payload on an identified and limited part of the road network assessed as suitable by Main Roads WA.

AMMS allows for three concessional mass levels and allows for any product and use of any proven loading control method. Vehicles accredited under the AMMS can only carry additional mass.

Local Governments retain control over heavy vehicles using local roads. A transport operator applies to have local roads assessed for inclusion in the AMMS network. Main Roads WA seek the support of Local Government before assessing the suitability of a local road for inclusion in the AMMS network. At that time, Local Governments can seek to have relevant conditions applied to the use of a particular local road.

Once a road is approved for access, it is included on the AMMS network list of roads published on the AMMS page of the Main Roads WA website.

Similar to the RAV network, transport operators must comply with the particular conditions of the AMMS network on which they are operating.

Information about the AMMS is available on the Main Roads WA website:

<https://www.mainroads.wa.gov.au/globalassets/heavy-vehicles/getting-a-permit/amms/permits-information-sheet-accredited-mass-management-scheme-amms-information-sheet.pdf>

11.0 Informing Own Councils

Each Regional Road Group approves and recommends to the SAC a substantial amount of road funding on behalf of member Local Governments. It is useful that delegates to each Regional Road Group keep their own Councils informed of the business and decisions made by the Regional Road Group of which they are a member.

12.0 WALGA RoadWise

WALGA RoadWise aims to engage Local Governments and communities in actions that support and contribute to the implementation of *Driving Change*, Road Safety Strategy for Western Australia (2020-2030).

WALGA RoadWise supports Local Governments, community groups, local businesses and individuals to become involved in the community road safety network across Western Australia.

A team of regional and metropolitan based RoadWise Road Safety Advisors assist members of the statewide community road safety network (that includes Local Governments) by:

- promoting participation and community ownership
- facilitating opportunities for leadership in local road safety
- supporting local road safety committees
- providing access to resources and training
- sharing information

These actions contribute to building the capacity of the network to make an effective contribution to preventing or reducing death or serious injury on the public road network in Western Australia.

The contact details for the WALGA RoadWise Road Safety Advisor for the Wheatbelt North Region are:

Rodney Thornton
Telephone: 0409 689 313
Email: rthornton@walga.asn.au

13.0 Main Roads WA Contact

Contact details for Main Roads WA Wheatbelt Region are:

Narrogin office:
Mokine Road, Narrogin WA 6312
PO Box 194, Narrogin WA 6312
Telephone 9881 0566

Northam office:
Peel Terrace, Northam WA 6401
PO Box 333, Northam WA 6401
Telephone 9622 4777

14.0 WALGA Contacts

For further information, please contact the people listed below.

Ian Duncan
Executive Manager, Infrastructure
Telephone: 9213 2031
Email: iduncan@walga.asn.au

Mark Bondiotti
Manager, Transport and Roads
Telephone: 9213 2040
Email: mbondiotti@walga.asn.au

Sebastian Davies-Slate
Policy Officer Transport and Roads
Telephone: 9213 2050
Email: sdavies-slate@walga.asn.au

15.0 ANNEXURE 1 - Terms of Reference for Regional Road Groups

Excerpt from *State Road Funds to Local Government Procedures*
(Part 7 – December 2020 – document number D21#545923, Main Roads WA)

7. Terms of Reference for Regional Road Groups

Region

Each Local Government in Western Australia shall be included in an appropriate RRG as defined by SAC. As a principle, the regional boundaries be as similar as possible to those used by MRWA.

Where there are exceptional circumstances, a Local Government may apply to SAC to transfer from one RRG to another. Supporting documentation shall accompany an application to justify the reasons for a change.

Where SAC approves a Local Government to transfer to another RRG, it will amend funding allocations to reflect the change.

Chairperson

An Elected Member shall be the Chairperson of a RRG. A RRG shall elect a Chairperson at least every second year at its first meeting following Local Government elections.

Membership

An Elected Member shall represent each Local Government on a RRG.

Voting and Decision Making

As far as practicable, decisions should be by consensus. Where voting is necessary, only Local Government Elected Members will be voting representatives on the following basis:

- One vote for each Local Government represented at RRG meetings where no Sub Group(s) exist; or
- One vote for each Sub Group represented at RRG meeting where Sub Group(s) exist;

Unresolved issues shall be brought to the attention of SAC by the RRG.

Meetings

The Chairperson of a RRG, assisted by the Secretariat, will develop an annual meeting timetable relating to the timetable of SAC. A RRG shall determine its annual meeting timetable at its first meeting after advice of SAC meeting timetable.

The schedule of RRG meetings can be found on the WALGA website.

Delegated Representatives

A member of a RRG may delegate authority, including voting rights, to another Elected Member from the same Local Government to attend and represent them at a meeting.

Reporting Structure

A RRG shall record minutes of its meeting and provide a copy to each member and to SAC. The RRG shall make recommendations as required to SAC.

Observers

A RRG may invite to a meeting any person with appropriate experience or expertise to assist in any matter.

Secretariat

MRWA shall provide technical and administrative support to the RRG. Regional Managers will provide the primary contact for each RRG. (See Attachment 5 for a Guide).

Regional Road Sub Group

A RRG may establish a Regional Road Sub Group(s) to:

- Assist to identify road-funding priorities.
- Consider local road issues to inform decision making by the RRG.
- Provide advice to the RRG.

A RRG will determine and approve the Terms of Reference for a Regional Road Sub Group(s).

The Terms of Reference will include:

- Roles and responsibilities of the Sub Group(s).
- Process to elect the Chairperson.
- Membership of the Sub Group(s).
- Voting rights within the Sub Group(s).
- Voting rights of the Sub Group(s) at the RRG.

A Local Government may apply to the RRG to transfer from one Sub Group to another.

Regional Road Technical Group

A RRG may establish a Regional Road Technical Group to assist with management and consideration of local road issues; and provide technical advice as requested.

A RRG will determine and approve the Terms of Reference for a Regional Road Technical Group(s). The Terms of Reference will include:

- Roles and responsibilities of the Technical Group(s).
- Process to elect the Chairperson.
- Membership of the Sub Group(s).
- The Technical Group(s) is an advisory group with no voting rights at the RRG.

A Local Government may apply to the RRG to transfer from one Technical Group to another.

Correspondence

Address all correspondence:

Chairperson

RRG

C/- Regional Manager

MRWA

Responsibilities

Within policies and guidelines established by SAC, the RRG shall be responsible for assessing road funding submissions from its members, the annual distribution of funds to Local Government roads, monitoring and reporting on the effectiveness of the application of the funds to Local Government roads in its region.

A RRG shall ensure that funds made available by the State are applied to the road network to:

- Maximise capacity and resources through joint purchasing and resource sharing
- Maximise benefits to the community
- Preserve, improve and extend the road system and
- Comply with the obligations of the Managing Director of Main Roads under legislation.

A RRG is responsible for:

- Developing and recommending to SAC, an annual Local Government roads program for their region.
- Monitoring the implementation of the program in their region.
- Developing and recommending to SAC, Strategies for Significant Local Government Roads.
- Developing and recommending to SAC, three year works projections.
- Regularly review project prioritisation methodologies for annual distribution of road funds to Local Government roads within the region.
- Developing regional specific policies and procedures to suit local circumstances.
- Providing updates of regional specific procedures to SAC for approval prior to formal introduction.
- Providing funding information to Local Governments to facilitate expenditure of road funds.
- Assisting SAC with Local Government priorities at the regional level.
- Advising SAC of any likely under expenditure with an explanation as to the cause and proposed solutions.
- Monitoring and responding to the safety performance of the Local Government road network in the region.
- Dealing with any other business relevant to the transport needs of the region.

Key Performance Indicators

RRG have key performance indicators (KPI) reported annually to SAC. The KPIs are:

- Number of RRG meetings held. (Minimum two meetings per year).
- Percentage of Black Spot Programs funding expended. (Includes State Black Spot Program and Federal Government Black Spot Program). (Target 90%).
- Percentage of road project grants expended. (Includes Commodity Route Fund). (Target 90%).
- Road project grant applications submitted to the State Advisory Committee by December each year.
- Percentage of sealed road length subject to documented visual condition survey within the region in the previous five years. (Target 50%).
- Metropolitan RRG only – percentage of road project grant funded road improvements subject to road safety audits / inspections. (Target 100%).
- Other RRG – percentage of road project grant funded projects that include Safe System improvements to roads and roadsides. (Target 50%).
- Number of Local Governments by RRG that have uploaded road inventory data into the MRWA IRIS database in the last three financial years. (Target 100%).

Attachment 5 – State Road Funds to Local Government Administrative Procedures

(To be used as a guide)

Executive Support

MRWA's Regional Office will provide the executive support and all other administrative, technical support to the RRG. (Where there are Sub Groups or Technical Groups to the RRG, support is to be provided by Local Government.) The following is an outline of the support to be provided:

- Provide information to Regional Road Groups and Local Governments on annual and programs of works, indicative funding and other financial matters.
- Provide the necessary support to assist Local Governments in programming and prioritising projects.
- Provide minute takers for meetings, distribute the minutes to the Regional Road Group members and State Funds to Local Government Advisory Committee.
- Provide the necessary administrative duties involved in the follow up of meeting action.

Records

The following will be maintained by MRWA to support RRG:

- Correspondence File (which provides background information required to support action of the Regional Road Group).
- Meeting and Agenda files (to ensure that ready access is available and records of Minutes maintained).
- Annual and Three-Year Program of Works including amendments.
- Summary of Payments of Local Road Funds to Local Governments.
- Certificates of Completion for Local Roads Projects and Direct Grants.
- An up-to-date Procedures and Road Projects Evaluation Guidelines Manual.
- An up-to-date list of RRG and Sub Group or Technical Group membership.

Meetings

Timing and Venue

An annual timetable will be established and meeting should be conducted on a regular basis. The date and venue of meetings to be determined by the RRG. Consider holding meetings at locations equitable for all participants.

Meeting Agenda

MRWA staff to prepare the Agenda in consultation with Chairperson of the RRG.

Agenda Format

- Chairperson to open meeting, welcome members and observers and call for apologies.
- Confirmation of Minutes of previous meeting.
- Business arising from previous minutes.
- Presentation of Advisory Committee Minutes since last RRG meeting.
- Inwards and Outwards Correspondence

- Reports:
 - Chairperson
 - WALGA Representative Submissions from Local Governments
 - Recommendations to State Road Funds to Local Government Advisory Committee
 - Summary of payments made to Local Governments (recoups, audit forms).
 - Amendments to Program of Works.
 - Black Spot and Road Safety Progress Report
- General Business.
- Future meeting dates.
- Meeting close.

The Agenda provided to each RRG member is to include the following:

- Minutes of the previous meeting.
- Summary of financial status and completion of projects.
- Copies of inward and outward correspondence.
- Any other relevant papers, maps etc. to assist the Group.

Correspondence

In general, correspondence is to be dealt with in the following manner:

- RRG correspondence is addressed to the Chairperson or the Regional Manager.
- All correspondence dealing with Local Roads Funding and RRG involvement is treated as inwards correspondence at the RRG meetings.
- Urgent matters are referred by email/facsimile direct to the Chairperson, or otherwise presented at the RRG meeting.

16.0 ANNEXURE 2 - Road Funding Sources

The following funding sources are available to Local Governments for roads.

Direct Grants (State Road Funds to Local Government Agreement)

Provided annually for routine maintenance of Local Government roads. The grants are allocated directly to a Local Government using the Asset Preservation Model formula provided by the Western Australia Local Government Grants Commission.

Road Project Grants (State Road Funds to Local Government Agreement)

Provided annually and used for specific projects assessed and prioritised by a Regional Road Group. Funding may only be used on roads of regional significance for specific road improvements; and major preservation works such as resealing to maintain the road asset.

Commodity Routes (State Road Funds to Local Government Agreement)

Provided annually (from the Road Project Grant allocation) for routes where there is a significant high priority transport task associated with the transport of a commodity such as grain, timber, agricultural lime, iron ore, etc. The funding is intended for roads requiring upgrade or maintenance to accommodate the commodity transport function.

Road and Bridge Condition Data Collection Fund (State Road Funds to Local Government Agreement)

Provided annually (from the Road Project Grant allocation) for assessing the condition of regionally significant Local Government bituminous sealed roads as defined in each Regional Road Group's *Regional Strategies for Significant Local Government Roads*; and to assist Local Governments perform Level 1 bridge inspections on local roads.

State Black Spot Program (State Government)

The Program targets improving the safety of roads with a proven crash history or high-risk location with the likelihood of crashes occurring identified by a road safety audit/inspection. Projects on local roads are funded by a joint contribution of two dollars from the State Government and a one-dollar contribution from the Local Government where the project resides.

State Initiatives on Local Roads (State Road Funds to Local Government Agreement)

Provided annually for works that are generally larger in nature and fall outside the criteria of other funding groups, however are still of strategic importance to the State.

Bridge Works/Bridge Inspections (State Road Funds to Local Government Agreement)

The Commonwealth provides Financial Assistance Grant funding to the Western Australian Local Government Grants Commission in the form of Untied Funds for Local Government. Some of this funding is set aside for major maintenance and replacement of bridges on Local Government roads. The State provides a matching contribution of \$1 for every \$2 provided under this arrangement.

Remote Aboriginal Community Access Roads (State Road Funds to Local Government Agreement)

The Commonwealth provides Financial Assistance Grant funding to the Western Australian Local Government Grants Commission in the form of Untied Funds for Local Government. Some of this funding is set aside for access roads serving Aboriginal Communities. The State provides a matching contribution of \$1 for every \$2 provided under this arrangement.

Australian Government Black Spot Program (Australian Government)

The Program aims to reduce the social and economic costs of road trauma by treating locations with a record of casualty crashes or with the likelihood of crashes occurring identified by a road safety audit/inspection. The Australian Government fully funds projects on local roads under this program.

Roads to Recovery (Australian Government)

Funded by the Australian Government, the Roads to Recovery Program commenced in 2001 to address the significant amount of Local Government road infrastructure reaching the end of its economic life and its replacement was beyond the capacity of Local Governments. Roads to Recovery funds are paid directly to Local Governments for priority road projects chosen by Local Governments.

See Annexure 3 – Indicative timetable for funding submissions

17.0 ANNEXURE 3 – Indicative timetable for funding submissions

Indicative timetable for funding applications and proposed meetings of the Wheatbelt South Regional Road Group.

AUSTRALIAN GOVERNMENT BLACK SPOT PROGRAM

Process step	Month
Call for submissions	April
Proposed Wheatbelt South RRG meeting	April
Submissions close	July
Proposed Wheatbelt South RRG meeting	July/August
Submissions assessed	September/October
Prepare recommended program	October/November
State Panel meets and assesses recommended program	December
Submit recommended program to State Government for approval	December
Approved program announced	May

STATE GOVERNMENT BLACK SPOT PROGRAM

Process step	Month
Call for submissions	April
Proposed Wheatbelt South RRG meeting	April
Submissions close	July/August
Proposed Wheatbelt South RRG meeting	July/August
Submissions assessed	September/October
Prepare recommended program	November
State Panel meets and assesses recommended program	December
Submit recommended program to State Government for approval	December
Approved program announced	May

ROAD PROJECT GRANTS

Process step	Month
Proposed Wheatbelt South RRG meeting	July/August
Local Governments apply to the RRG for project funds with supporting justification	September (for next financial year)
RRG's provide project recommendations to SAC	November (for next financial year)
SAC makes project recommendations to the Managing Director, Main Roads WA	December (for next financial year)
Proposed Wheatbelt South RRG meeting	April
Local Governments advised of approved projects	June (for next financial year)
RRG to advise SAC of likely under expenditure of allocated funds (if applicable)	Before end of June (for current financial year)

COMMODITY ROUTE SUPPLEMENTARY FUNDING

Process step	Month
Proposed Wheatbelt South RRG meeting	April
Call for submissions	June
Proposed Wheatbelt South RRG meeting	July/August
Submissions close	September
RRG assesses projects and makes recommendations to Technical Review Group (consists of representatives from WALGA and Main Roads WA, Perth)	September/October
Technical Review Group assesses projects and makes recommendations to SAC	October/November
SAC approval	December
To State Government for approval	January
Approved program announced	January

18.0 ANNEXURE 4 - Key Performance Indicators

Regional Road Group Key Performance Indicators Annual Report 2019/2020

1.1 Number of Regional Road Group meetings held. (Minimum 2 meetings per year)

Region	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Great Southern	2	2	2	2	1
South West	4	4	4	4	3
Gascoyne	3	3	3	3	3
Mid-West	2	2	2	2	2
Goldfields-Esperance	1	2	2	2	2
Kimberley	2	2	2	2	2
Wheatbelt South	2	2	2	2	3
Wheatbelt North	2	2	2	2	3
Pilbara	2	2	1	1	2
Metropolitan	2	2	2	2	2

Regional Road Groups met at least twice during the reporting year except the Great Southern Regional Road Group.

1.2 Percentage of Black Spot Programs funding expended. (Target 90%) (Includes State Government and Australian Government Black Spot Programs)

Region	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
	%	%	%	%	%
Great Southern	90	83	87	61	58
South West	87	86	90	91	85
Gascoyne	100	0*	0*	96	100
Mid-West	36	87	49	4*	47
Goldfields-Esperance	48	100	50	66	100
Kimberley	91	49	39	85	58
Wheatbelt South	53	78	75	74	78
Wheatbelt North	64	55	52	83	90
Pilbara	93	125	100	0**	80
Metropolitan	72	52	63	66	61
Total	73	70	60	62	76

The Gascoyne, Goldfields-Esperance and Wheatbelt North Regional Road Groups achieved the 90% target.

1.3 Percentage of road project grants expended. (Target 90%) (Includes Commodity Route Supplementary Fund projects)

Region	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
	%	%	%	%	%
Great Southern	93	82	86	69	86
South West	91	90	89	83	84
Gascoyne	100	100	97	98	93
Mid-West	97	100	94	100	95
Goldfields-Esperance	92	78	89	96	86
Kimberley	79	87	89	84	48
Wheatbelt South	89	91	99	94	89
Wheatbelt North	96	97	91	85	90
Pilbara	100	100	63	55	89
Metropolitan	95	79	79	78	78
Total	93	86	88	84	84

Three Regional Road Groups met the 90% target with two Regional Road Groups at 89%.

Metropolitan Region by Sub Group

Sub Group	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
	%	%	%	%	%
North West	100	100	89	61	94
West	62	83	86	78	53
Central	100	61	78	93	79
East	100	79	97	91	98
South East	100	58	76	79	91
South West	100	92	92	95	65
Total	95	79	86*	79	84

Three of the six metropolitan sub-groups achieved the 90% target.

Member Local Governments of Metropolitan Subgroups

North West	Joondalup, Stirling & Wanneroo
West	Cambridge, Claremont, Cottesloe, Mosman Park, Nedlands & Peppermint Grove
Central	Perth, Subiaco & Vincent
East	Bassendean, Bayswater, Kalamunda, Mundaring & Swan
South East	Armadale, Belmont, Canning, Gosnells, Serpentine-Jarrahdale, South Perth & Victoria Park
South West	Cockburn, East Fremantle, Fremantle, Kwinana, Melville & Rockingham

1.4 Road project grant applications submitted to the State Advisory Committee (via Main Roads WA) by November each year.

Region	2015-2016	2016-2017	2017-2018	2018-2019	2019/2020
Great Southern	✓	✓	✓	✓	✓
South West	✓	✓	✓	✓	X
Gascoyne	✓	✓	✓	✓	✓
Mid-West	✓	✓	✓	✓	✓
Goldfields-Esperance	✓	✓	✓	✓	✓
Kimberley	✓	✓	✓	✓	✓
Wheatbelt South	✓	✓	✓	✓	✓
Wheatbelt North	✓	✓	✓	✓	✓
Pilbara	✓	✓	✓	✓	✓
Metropolitan	X	✓	✓	✓	✓

2.1 Percentage of sealed road length subject to a documented visual condition survey within the region in the previous 5 years. (Target 50%)

Region	% of sealed road length surveyed in the past 5 years				
	2015-2016	2016/2017	2017-2018	2018-2019	2019-2020
Great Southern	71	71	73	54	50
South West	74	71	68	74	64
Gascoyne	46	46	36	89	75
Mid-West	67	62	37	68	43
Goldfields-Esperance	35	40	69	44	74
Kimberley	75	74	53	76	24
Wheatbelt South	66	62	62	90	89
Wheatbelt North	86	83	80	83	72
Pilbara	92	100	100	100	50
Metropolitan	84	72	78	74	77
Total for WA	75	70	65	77	71%

The data excludes 19 Local Governments that do not use RAMM to manage road condition data.

3.1 Metropolitan Regional Road Group only - Percentage of Road Project Grant funded road improvements subject to road safety audits. (Target is 100%)

Region	2015-2016	2016-2017	2017-2018	2018-2019	2019/2020
	%	%	%	%	%
Metropolitan	100	100	100	100	100

3.2 Other Regional Road Groups - Percentage of Road Project Grant funded projects that include Safe System improvements to roads and roadsides. (Target is 50%)

Region	2015-2016	2016-2017	2017-2018	2018-2019	2019/2020
	%	%	%	%	%
Great Southern	69	51	51	56	51
South West	75	66	68	58	67
Gascoyne	70	57	100	100	100
Mid-West	66	62	100	100	100
Goldfields-Esperance	50	51	60	50	97
Kimberley	86	92	75	84	71
Wheatbelt South	96	40	70	66	68
Wheatbelt North	84	34	59	63	65
Pilbara	80	79	100	80	50

All the non-metropolitan Regional Road Groups achieved the target.

4.1 Number of Local Governments by RRG that provide a road inventory data update to Main Roads WA for uploading into the IRIS database in the last three financial years (2017/2018, 2018/2019 and 2019/2020). (Target 100%)

Region	Number of Local Governments in RRG	2016-2017, 2017-18 and 2018-19	2017-18, 2018-19 and 2019-20
Great Southern	12	7	10
South West	16	6	6
Gascoyne	4	2	1
Mid-West	16	5	6
Goldfields-Esperance	9	5	5
Kimberley	4	3	3
Wheatbelt South	18	7	7
Wheatbelt North	24	9	11
Pilbara	4	1	2
Metropolitan	30	18	11
Total	137	63	62

In the last three financial years, 45% of Local Governments provided road inventory data for uploading into the Main Roads WA IRIS database.

19.0 ANNEXURE 5 – Profile of Wheatbelt South Regional Road Group

(Source: Report on Local Government Road Assets & Expenditure 2019/20, Appendix 14, page 160)

Local Governments (18)	Beverley, Brookton, Bruce Rock, Corrigin, Cuballing, Dumbleyung, Kondinin, Kulin, Lake Grace, Narembeen, Narrogin, Pingelly, Quairading, Wagin, Wandering, West Arthur, Wickepin, Williams	
Length of roads in Region (km)	Sealed:	3,909
	Gravel:	10,106
	Formed:	2,682
	Unformed:	337
	Total:	17,034
Lakes Sub-Group	Shire of Dumbleyung, Shire of Kulin, Shire of Lake Grace, Shire of Wagin and Shire of Wickepin	
Roe Sub-Group	Shire of Bruce Rock, Shire of Corrigin, Shire of Kondinin, Shire of Narembeen and Shire of Quairading	
Narrogin Sub-Group	Shire of Cuballing, Shire of Narrogin, Shire of West Arthur and Shire of Williams	
Hotham Dale Sub-Group	Shire of Beverley, Shire of Brookton, Shire of Pingelly and Shire of Wandering	

