



# **Managing groundwater extraction to limits - Presentation 2g**

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## **Extraction patterns in the Upper Macquarie Alluvial groundwater source**

December 2020

# We seek your input

The department must manage groundwater extraction to extraction limits defined in water sharing plans.

Only on method available in the Upper Macquarie Alluvial groundwater source to reduce access if extraction by all water users exceeds the limit.

We seek your comment on how to apply that method to best suit your area.

# Presentation content

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# Share profile – Upper Macquarie Alluvial

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Category of licence	Number of licences	Total
Aquifer access licence*	135	27,695 unit shares
Local Water Utility access licence	4	4,470 ML/yr
Domestic and stock access licence	2	4 ML/yr
Basic landholder rights		304 ML/yr*

\* Basic landholder right is assumed to be used in full every year

# Water sharing rules – Upper Macquarie Alluvial

**Maximum carry over – the maximum water allocation remaining in a water account that can be carried over from water year to the next water year**

Domestic and stock/Local Water Utility access licences	0
Aquifer access licences	0 ML/unit share

**Maximum water account debit – the maximum water allocation that can be taken or traded to another licence**

Domestic and stock/Local Water Utility access licences	Sum of allocations + allocation traded in
Aquifer access licences	Sum of allocations + allocation traded in

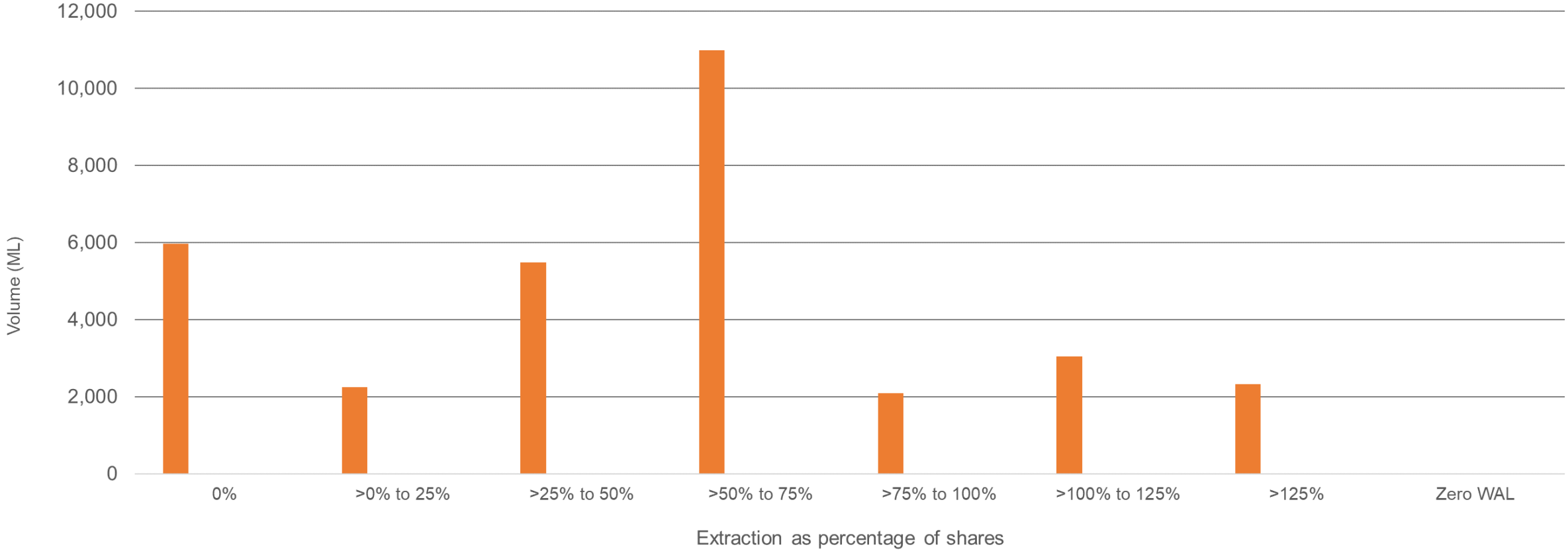
## **Limits and triggers**

Long-term average annual extraction limit	17,935 ML/yr
Compliance trigger (extraction limit + 10%)	19,729 ML/yr

# Use profile – Upper Macquarie Alluvial

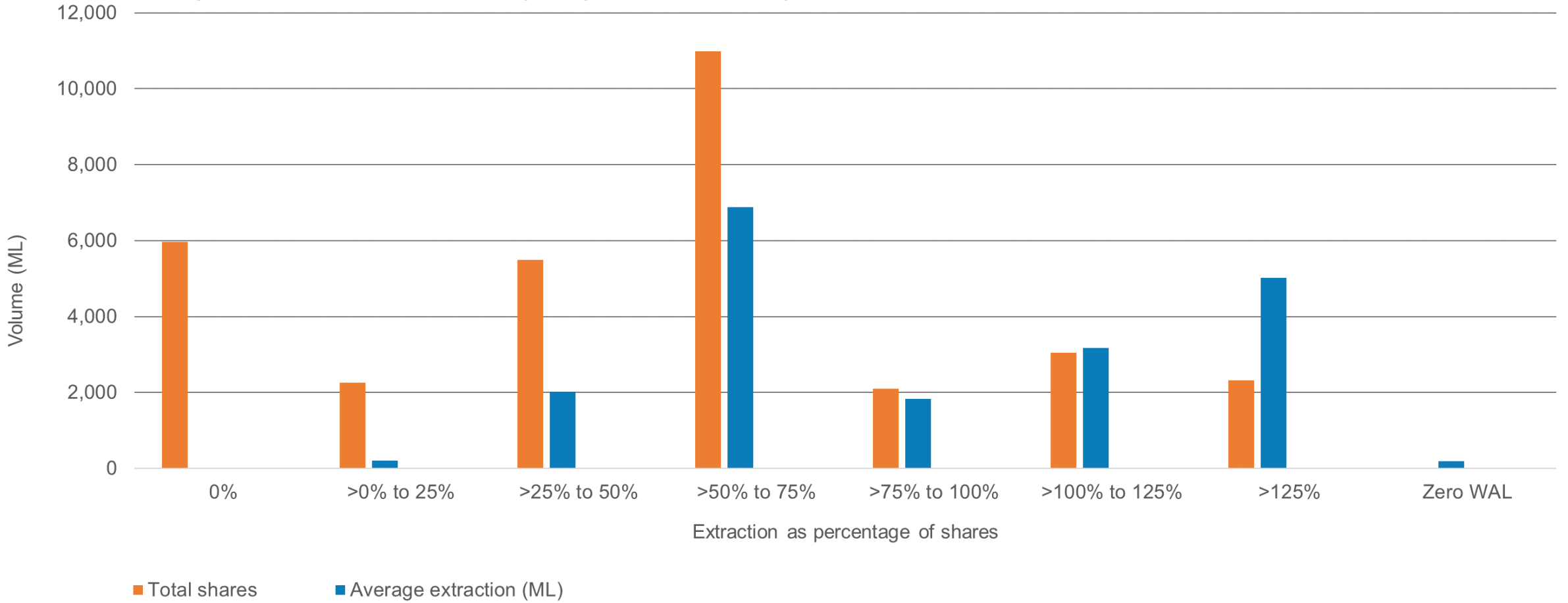
Extraction as percentage of shares	Number of Accounts	Total shares	Average extraction (ML)	Average volume (ML) traded INTO accounts	Average volume (ML) traded OUT of accounts
0%	67	5,973	0	0	2,456
>0% to 25%	10	2,252	205	4	736
>25% to 50%	14	5,488	2,019	100	452
>50% to 75%	22	10,983	6,878	153	311
>75% to 100%	9	2,100	1,831	154	20
>100% to 125%	6	3,049	3,169	637	236
>125%	5	2,324	5,022	3,086	10
Zero WAL	8	0	185	253	43

Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



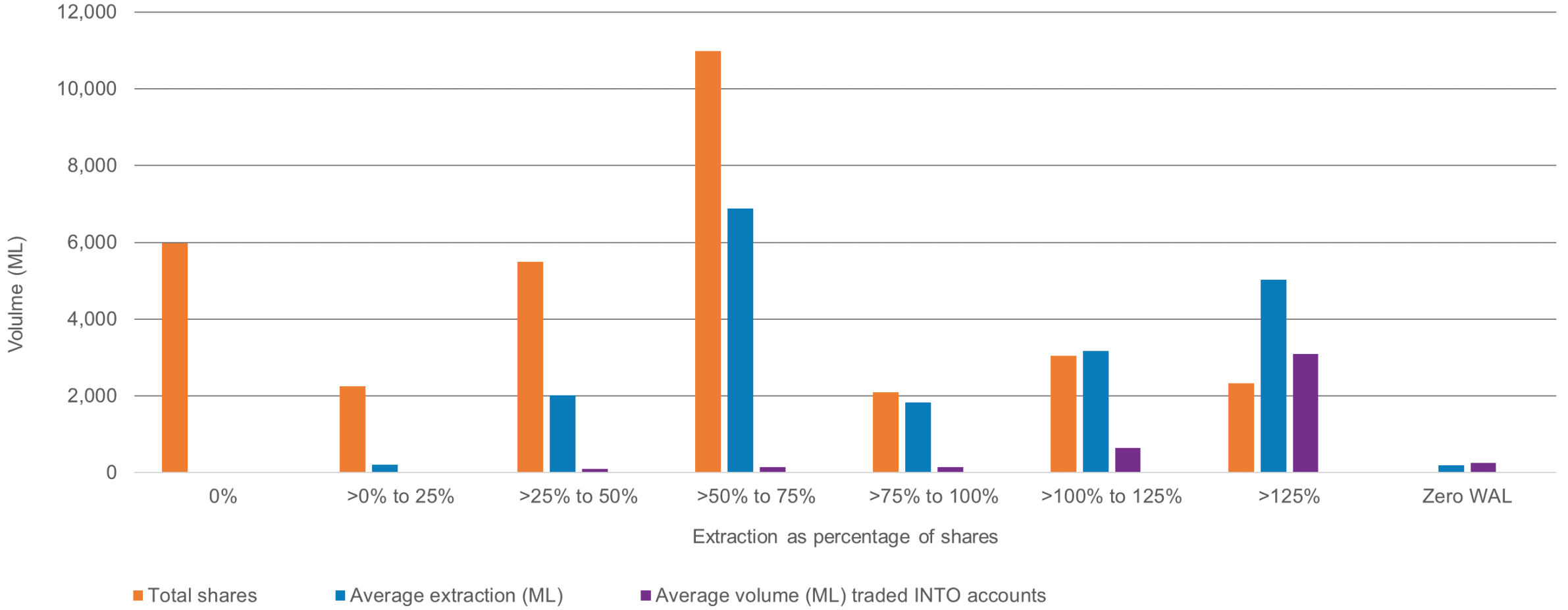
■ Total shares

Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)

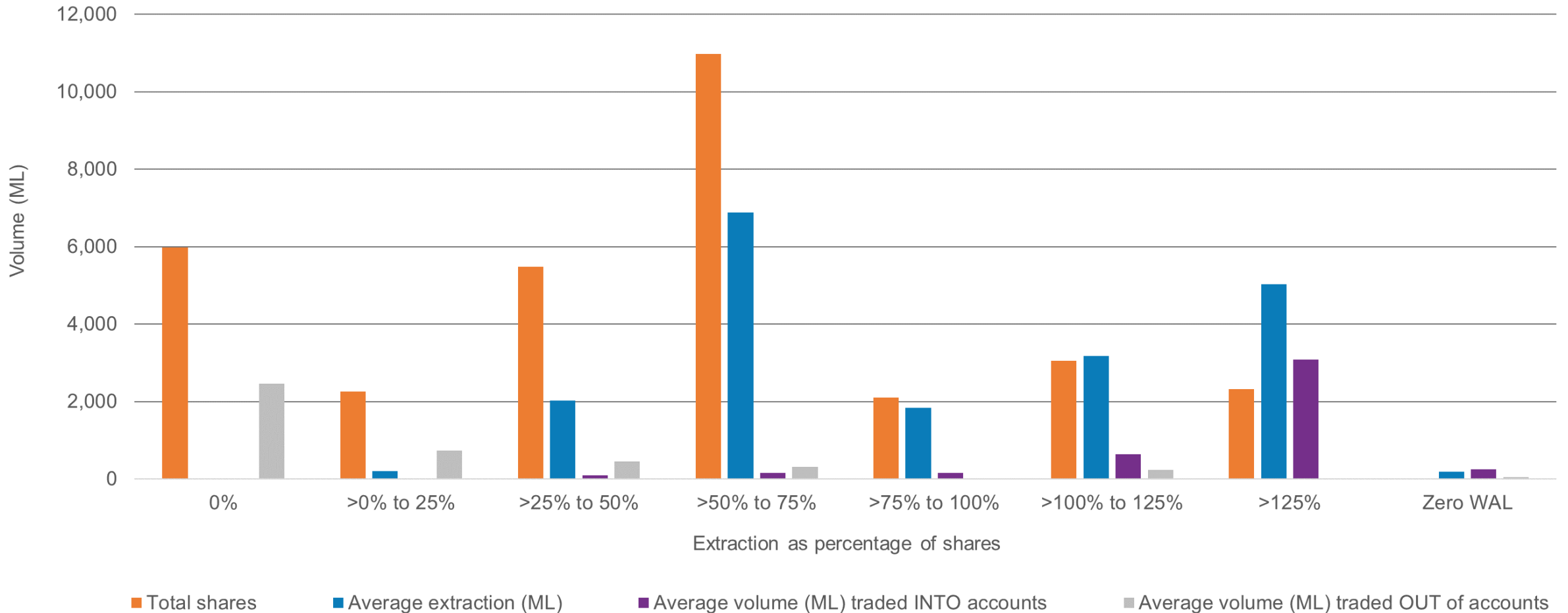




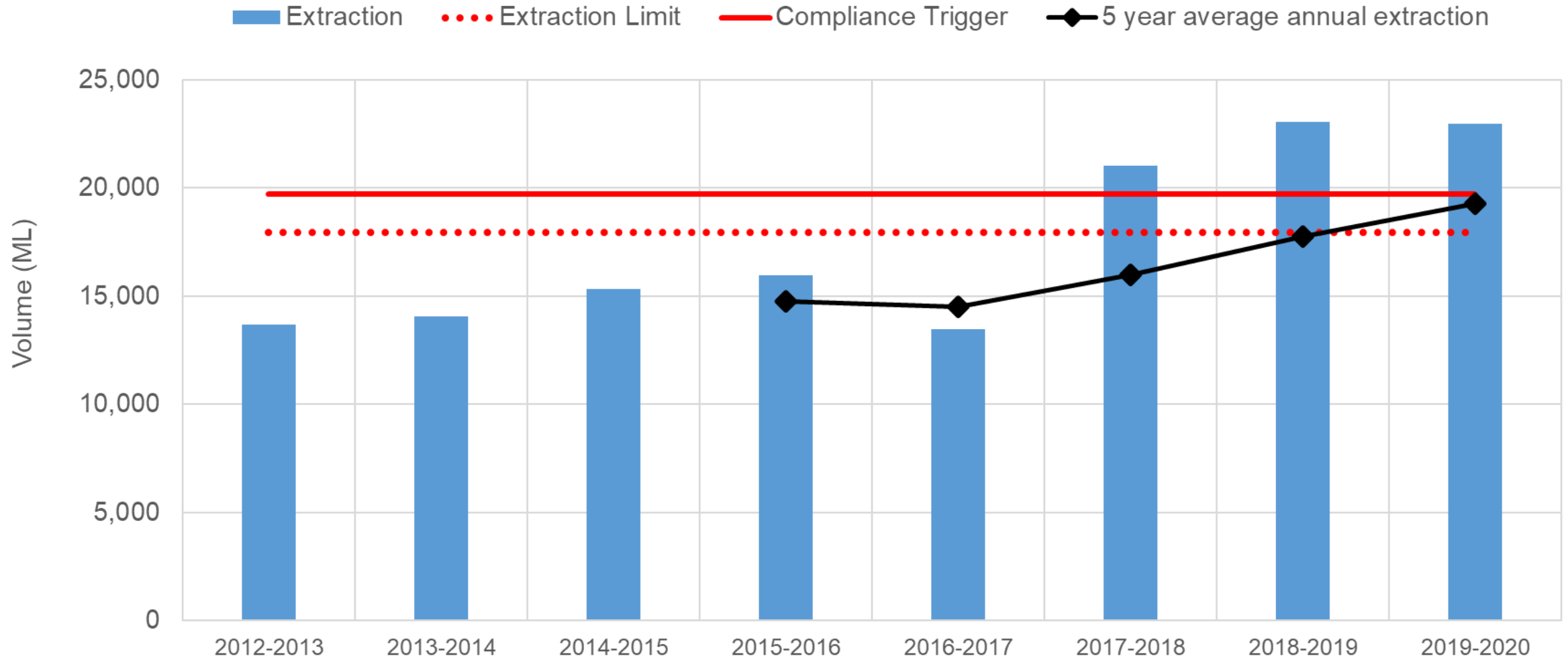
Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



# Long-term annual average extraction limit



# Online dashboard

- Dashboard launched December 2021
- Access on our website at <https://www.dpie.nsw.gov.au/managing-access-to-groundwater>



## Status of Groundwater Extraction UPPER MACQUARIE ALLUVIAL GROUNDWATER SOURCE

Select an inland groundwater source here:

UPPER MACQUARIE ALLUVIAL GROUNDWATER SOURCE

Last updated: 14/12/2020

All groundwater sharing plans have rules to manage extraction in a water source to its long-term average annual extraction limit.

Access to groundwater in the **UPPER MACQUARIE ALLUVIAL GROUNDWATER SOURCE** may be reduced if average extraction over the previous **5 years** is more than **110%** of the extraction limit (known as the compliance trigger). Note: ML=Megalitres

### 2020-2021 Water Year

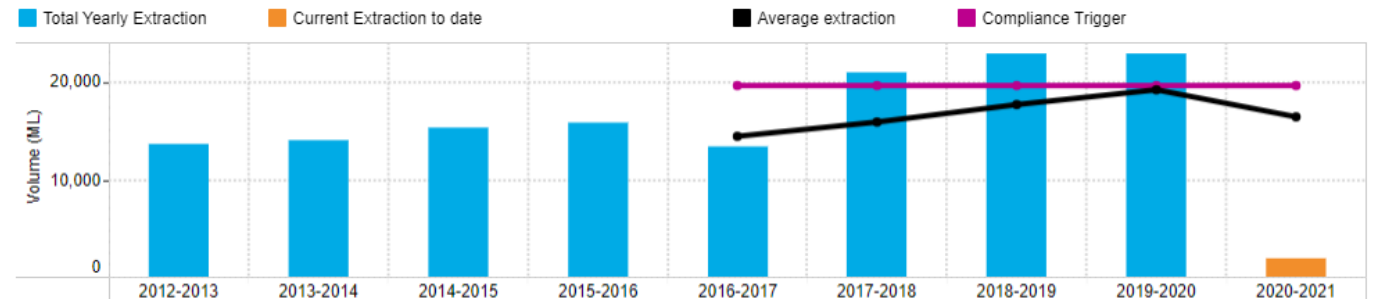
Volume available in water accounts (ML)	Volume that if extracted will reach the compliance trigger (in ML, calculated annually)	Volume remaining to be extracted before reaching the compliance trigger (in ML, calculated throughout the year)
32,151	18,113	16,107

Likelihood of compliance being triggered in the 2020-2021 Water Year:

**HIGH**

### Extraction compared to the compliance trigger over time:

This graph shows yearly and average extraction over five years and compares them to the compliance trigger. If the 5 year average extraction goes above the compliance trigger, then access to groundwater may be reduced in the next water year.



The 2020-2021 water year is still open and only reflects the extraction to date (including basic land holder rights (BLR)). The current year extraction data comes from BLR estimates, meter reads and unverified iWAS entries.

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# Sustainable diversion limits

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Commonwealth  
Sustainable diversion limit



Compare Annual Actual Take (extraction) in previous year to Annual Permitted Take

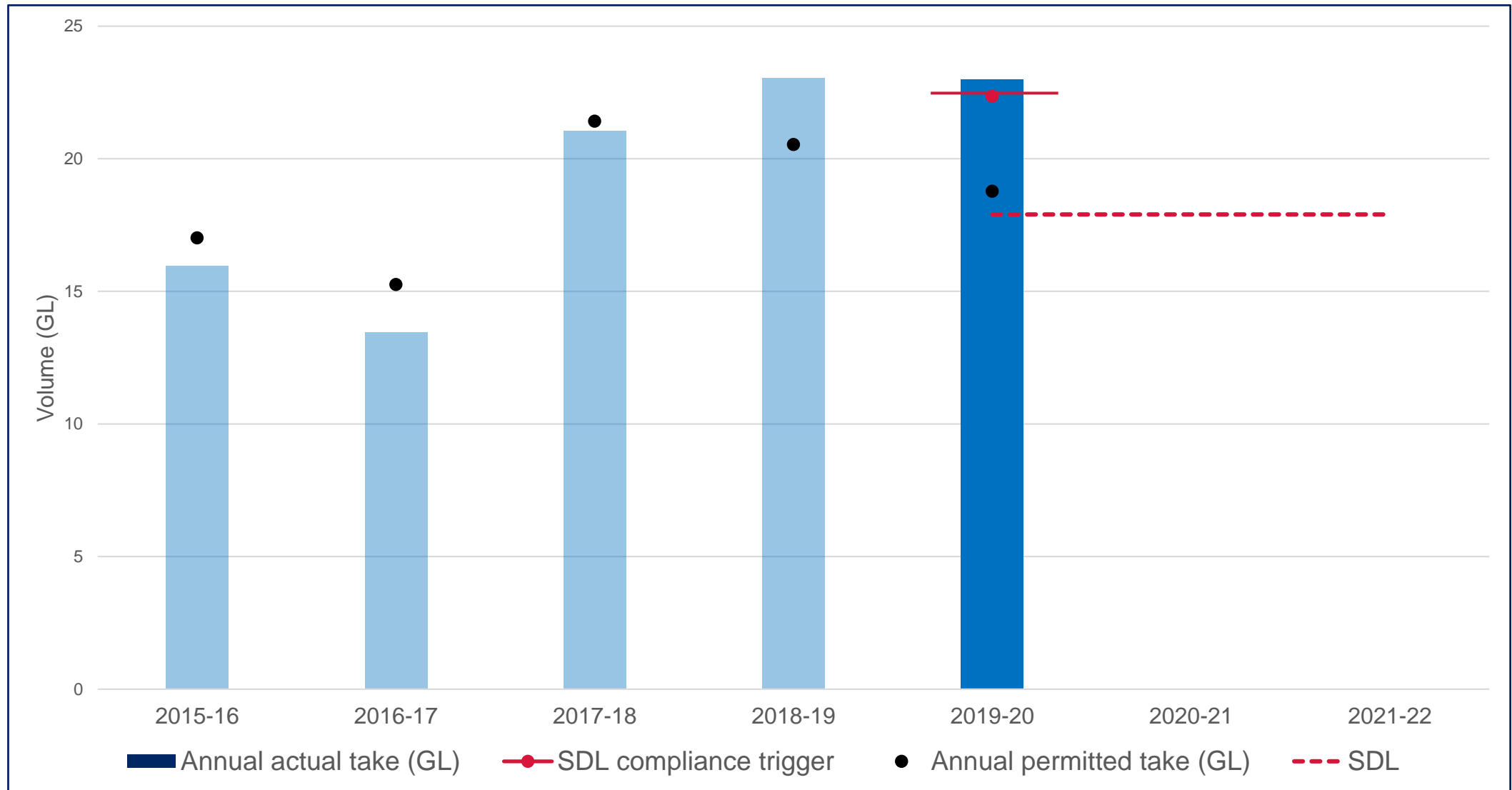


Limit exceeded if:



Running balance of overs and unders since 1 July 2019 >20% of Sustainable  
Diversion Limit and no reasonable excuse

# Sustainable diversion limit



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**The End**

**For more information go to**

**[www.dpie.nsw.gov.au/managing-access-to-groundwater](http://www.dpie.nsw.gov.au/managing-access-to-groundwater)**

