

Water Sharing Rules

Berowra Creek and Cowan Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchments of Berowra Creek and Cowan Creek to the tidal limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the management zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Lagoon rules	
Trading onto a lagoon from a river	Not permitted.
Application for new works on a lagoon	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Boro Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Boro Creek	Includes the hydrological catchment of Boro Creek to the confluence of Boro Creek and the Shoalhaven River.

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	For years one to ten of the plan users must cease to pump when flows are at or less than 3.2 ML/day.
Commence to pump – A class only	For years one to ten of the plan users may commence to pump when flows have exceeded the 3.2 ML/day for a period of 24 hours.
Reference point	Boro Creek at Marlowe (flow gauge 215239).

Trading rules	
INTO management zone	Permitted but only up to a maximum additional entitlement of 73 ML in this management zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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NOW 11_070.s4

Water Sharing Rules

Broughton Creek Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Three management zones (MZs) have been included in this rules summary as planning for the Broughton Creek Catchment was undertaken as a single management zone	
Boundary Definitions	
Broughton Mill Creek MZ	Includes the hydrological catchment of Broughton Mill Creek.
Broughton Creek MZ	Includes the hydrological catchment of Broughton Creek at and above river flow gauge 215017 excluding Broughton Mill Creek MZ and Jaspers Brush Creek and Tributaries MZ.
Jaspers Brush and Tributaries MZ	Includes the hydrological catchment of Jaspers Brush Creek and the hydrological catchments of Broughton Creek below river flow gauge 215017 to the mangrove limit.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules for the Broughton Creek Management Zone

A class	Users must cease to pump when flows are at or less than 0.4 ML/day.
B class	Users must cease to pump when flows are at or less than 24 ML/day.
Commence to pump – A class only	Users may commence to pump when flows are greater than 1 ML/day.
Reference point	Broughton Creek at “The Oaks” (flow gauge 215017).

Access Rules for the Broughton Mill Creek Management Zone

A class	Users must cease to pump when flows are at or less than 0.4 ML/day.
B class	Users must cease to pump when flows are at or less than 24 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded 0.4 ML/day for a period of 24 hours.
Reference point	Broughton Creek at Berry (flow gauge 215015).

Access Rules for the Jaspers Brush Creek and Tributaries Management Zone	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the reference point. If, during the life of the plan, a new gauge is installed in the zone, the cease to pump may be set equivalent to the 95 th percentile flow.
Reference point	Causeway culvert on Martinvale Road.

Trading rules for the Broughton Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with a conversion rate of 1:25 for share components from unregulated river to unregulated river high flow access licences.

Trading rules for the Broughton Mill Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with conversion rate of 1:25 for share components from unregulated river to unregulated river high flow access licences.

Trading rules for the Jaspers Brush Creek and Tributaries Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules

Bungonia Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Bungonia Creek to the confluence of Bungonia Creek and the Shoalhaven River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	Users must cease to pump when flows are at or less than 0.2 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded the 0.2 ML/day for a period of 24 hours.
Reference point	Bungonia Creek at Bungonia (flow gauge 215014).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules

Cattai Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Cattai Creek to the tidal limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531

Access Rules	
A class	Users must cease to pump when flows are at or less than 3 ML/day.
B class	Users must cease to pump when flows are at or less than 15 ML/day.
Commence to pump – A class only	For years one to five of the plan users may commence to pump after flows have exceeded 3 ML/day for a period of 24 hours.
Reference point	Cattai Creek at Cattai Ridge Road (flow gauge 2122951).

Trading rules	
INTO management zone	Trading into this management zone is not permitted if the trade will increase the total licensed entitlement for the management zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with a conversion rate of 1:25 for share components from unregulated river to unregulated river high flow access licences.
Trading onto a lagoon from a river	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Colo River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
<p>Note: Two management zones (MZs) have been included in this rules summary as planning for the Colo River Catchment was undertaken as a single management unit.</p> <p>Also note that the plan states that an additional management zone will be created, encompassing the hydrological catchment of Little Wheeny Creek, after year five of the plan with suitable infrastructure (staff gauge or other) and have a cease-to-pump to achieve an end of system flow target.</p>	
Boundary Definition	
Colo River MZ	Includes the hydrological catchment of Colo River excluding Capertee River MZ and including the hydrological catchment of Wolgan River.
Capertee River MZ	Includes the hydrological catchment of Capertee River excluding the hydrological catchment of Wolgan River.

Rules Summary
<p>The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.</p>

Access Rules for the Capertee River Management Zone	
A class	Users must cease to pump when flows are at or less than 2 ML/day.
B class	Users must cease to pump when flows are less than or equal to 11 ML/day.
Commence to pump – A class only	Users may commence-to-pump when flows have exceeded 2 ML/day for a period of 24 hours.
Reference point	Capertee River at Glen Davis (flow gauge 212018).
Access Rules for the Colo River Management Zone	
A class	Users must cease to pump when flows are at or less than 24ML/day. Note the cease to pump may be amended to 45 ML/day (90 th ile) based on further studies.
B class	Users must cease to pump when flows are at or less than 244 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded 24 ML/day for a period of 24 hours.
Reference point	Colo River at Upper Colo (flow gauge 212290).

Lagoon rules	
Trading onto a lagoon from a river	Not permitted.
Application for new works on a lagoon	Not permitted.

Trading rules for the Capertee River Management Zone	
INTO management zone	<p>Not permitted into the hydrological catchment of Crown Creek within the management zone.</p> <p>Not permitted if the trade will increase the total licensed entitlement for the zone.</p> <p>Not permitted into or above reaches declared a “wild river”.</p>
WITHIN management zone	<p>Not permitted into the hydrological catchment of the Crown Creek within the management zone.</p> <p>Not permitted into or above reaches declared a “wild river”, permitted elsewhere subject to assessment.</p> <p>Permitted elsewhere, subject to assessment.</p>
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Colo River Management Zone	
INTO management zone	Not permitted if the trade will increase the total licensed entitlement for the zone. Not permitted into or above reaches declared a “wild river.”
WITHIN management zone	Not permitted into or above reaches declared a “wild river”, permitted elsewhere subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Cooks River and Botany Bay Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Cooks River and Botany Bay, excluding the hydrological catchment of Georges River, to the mangrove limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Corang and Endrick Rivers Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of the Corang River to the confluence of the Corang River and the Shoalhaven River and the hydrological catchment of the Endrick River to the confluence of the Endrick River and the Shoalhaven River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	Users must cease to pump when flows are at or less than 0.6 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded the 2ML/day.
Reference point	Corang River at Hockeys (flow gauge 215004).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules Dharabuladh Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Coxs River between Wywandy River Management Zone and the confluence of Coxs River and Jenolan River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
A class	Users must cease to pump when flows are at or less than 15 ML/day.
B class	Users must cease to pump when flows are at or less than 28 ML/day.
C class	Users must cease to pump when flows are at or less than 73 ML/day.
D class	Users must cease to pump when flows are at or less than 87 ML/day.
Commence to pump – A class only	Users may commence to pump when flows are greater than 17 ML/day.

Daily flow sharing	<p>From year six of the plan daily flow sharing will be introduced for A, B and C Class. The total daily extraction limit is set at 10 ML/day for A class, 20 ML/day for B class and 40 ML/day for C class. This is the volume of water which is available for sharing between licensed extractors.</p> <p>Initial assessment of these volumes to different categories of access licences in A class is as follows:</p> <ul style="list-style-type: none"> • 0.04 ML/day to domestic and stock access licenses • 9.96 ML/day to unregulated river access licenses. <p>Initial assessment of these volumes to different categories of access licences in B class is as follows:</p> <ul style="list-style-type: none"> • 0.04 ML/day to domestic and stock access licenses • 14.96 ML/day to unregulated river access licenses. <p>Initial assessment of these volumes to different categories of access licences in C class is as follows:</p> <ul style="list-style-type: none"> • 0.04 ML/day to domestic and stock access licenses • 19.96 ML/day to unregulated river access licenses. <p>Unassigned water in B class of 5 ML/day and in C class of 20 ML/day may be assigned as a result of a new licence application or a variation to an existing local water utility access licence.</p>
Reference point	Coxs River at Island Hill (flow gauge 212045).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Erskine Creek and Glenbrook Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Erskine Creek to the confluence of Erskine Creek and Nepean River, and the hydrological catchment of Glenbrook Creek to the confluence of Glenbrook Creek and Nepean River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	No access rules specified.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Lagoon rules	
Trading onto a lagoon from a river	Not permitted.
Application for new works on a lagoon	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Georges River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Four management zones (MZs) have been included in this rules summary as planning for the Georges River Catchment was undertaken as a single management unit.	
Boundary Definition	
Lower Georges River and Bunbury Curran Creek MZ	Includes the hydrological catchments of Bunbury Curran Creek and Georges River at and below the confluence of Bunbury Curran Creek and Georges River.
Cabramatta Creek MZ	Includes the hydrological catchment of Cabramatta Creek.
Prospect Creek MZ	Includes the hydrological catchment of Prospect Creek.
Georges River Catchment MZ	Includes the hydrological catchment of Georges River excluding Lower Georges River and Bunbury Curran Creek MZ, Cabramatta Creek MZ and Prospect Creek MZ.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules for the Lower Georges River and Bunbury Curran Creek Management Zone

A class	For years one to five of the plan users must cease to pump when flows are at or less than 0.25 ML/day. For years six to ten of the plan users must cease to pump when flows are at or less than 0.3 ML/day.
B class	For years one to ten of the plan users must cease-to-pump when flows are at or less than 5.7 ML/day.
Commence to pump – A class only	For years one to five of the plan users may commence to pump when flows have exceeded 0.25 ML/day for a period of 24 hours. For years six to ten of the plan users may commence to pump when flows have exceeded 0.3 ML/day for a period of 24 hours.
Reference point	Bunbury Curran Creek at Railway Parade (flow gauge 213012).

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Access Rules for the Cabramatta Creek Management Zone	
A class	Users must cease to pump when flows are at or less than 0.1 ML/day.
B class	Users must cease to pump when flows are at or less than 2.4 ML/day.
Commence to pump – A class only	Users may commence-to-pump when flows have exceeded 0.1 ML/day for a period of 24 hours.
Reference point	Cabramatta Creek at Orange Grove (flow gauge 213011).
Access Rules for the Prospect Creek Management Zone	
A class	Users must cease to pump when flows are at or less than 1.6 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded 1.6 ML/day for a period of 24 hours.
Reference point	Prospect Creek at Smithfield Road (flow gauge 213009).
Access Rules for the Georges River Catchment Management Zone	
Environmental Flow Protection Rule (EFPR)	<p>Pumping is not permitted when there is no visible flow at the pump site.</p> <p>Note: Flow classes may be introduced after year five of the plan, if appropriate infrastructure is installed, Possible rules may include a cease to pump when flows are at or below 1.6 ML/day for A class users, at 3.5 ML/day for B class users and 12.2 ML ML/day for C class users based on the observed flows of O'Hares Creek at Wedderburn, river gauge 213200.</p>
Total daily extraction limits	Following installation of appropriate infrastructure and if a study shows high instream values are at risk from extractions the total daily extraction limit for A, B and C classes may be set at 30% of the flow class after year 6 for the Georges River Catchment Management Zone.
Reference point	Pump site.

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Trading rules for the Lower Georges River and Bunburry Curran Creek Management Zone	
INTO management zone	Permitted, except into the hydrological catchments Harris Creek, Williams Creek and Georges River above river flow gauge 213400 of the Lower Georges River and Bunburry Curran Creek Management Zone.
WITHIN management zone	Permitted, except into the hydrological catchments Harris Creek, Williams Creek and Georges River above river flow gauge 213400 of the Lower Georges River and Bunburry Curran Creek Management Zone.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Cabramatta Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Prospect Creek Management Zone	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Georges River Catchment Management Zone	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information

- about the development of the water sharing rules can be found on the water source Report Cards
- on the Water Sharing Plan for the Greater Metropolitan Region unregulated water sources generally is available at: www.water.nsw.gov.au

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Water Sharing Rules

Grose River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Grose River to the confluence of Grose River and Nepean River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
A class	For years one to five of the plan users must cease to pump when flows are at or less than 24 ML/day. For years six to ten users must cease to pump when flows are at or less than 30 ML/day.
Commence to pump – A class only	For years one to five of the plan users may commence to pump when flows have exceeded 30ML/day.
Daily flow sharing	If a study shows high instream values are at risk from extractions the total daily extraction limit for A, B and C classes may be set at 30% of the flow class after year 6.
Reference point	Grose River at Burralow (flow gauge 212291).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Trading permitted throughout the management zone except into or upstream of declared Wild Rivers.
Conversion to High Flow Access Licence	Not permitted.
Trading onto a lagoon from a river	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Hacking River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrologic catchment of the Hacking River to the mangrove limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules

Jenolan River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of the Jenolan River to the confluence of the Jenolan River and Coxs River and the hydrological catchment of Coxs River between the confluence of Coxs River and Jenolan River and the confluence of Kowmung River and Coxs River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Trading into the Jenolan River Management Zone, excluding the hydrological catchment of the Jenolan River at and above the confluence with Pheasants Nest Creek, is not permitted if the trade will increase the total licensed entitlement for the management zone. Trading not permitted into the hydrological catchment of the Jenolan River at and above the confluence with Pheasants Nest Creek.
WITHIN management zone	Not permitted into the hydrological catchment of the Jenolan River at and above the confluence with Pheasants Nest Creek. Permitted elsewhere.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s26

Water sharing rules Kangaroo River Management Zone

Water sharing plan	Greater Metropolitan Region Unregulated Water Sources
Plan commencement	1 July 2011
Term of the plan	10 years

Rules summary

The following rules are a guide only. For more information about your licence conditions please call DPI Water in Nowra, phone (02) 4429 4442

Access rules

Access rules for rivers and creeks

Cease to pump	Pumping is not permitted when flows are equal to or less than 7 ML/day (equivalent to 98 th percentile).
Commence to pump	Pumping is permitted 24 hours after flows rise above 7 ML/day.
Reference point	Gauge 215220 Kangaroo River at Hampden Bridge

Access rules for natural in-river and natural off-river pools

Cease to pump	Pumping is not permitted when the water level in that natural off-river pool is lower than its full capacity. Note: 'Full capacity' can be approximated by the pool water level at the point where there is no visible flow into and out of that pool. Note: Natural off-river pools include those pools located on flood runners, floodplains and effluents e.g. lakes, lagoons and billabongs.
Reference point	Individual natural off-river pool.

Note: These access rules do not apply:

1. if the existing *Water Act 1912* entitlement had more stringent access licence conditions. These existing conditions will be carried forward under the plan and are included in Appendix 4.
2. to major water utility, local water utility or unregulated river (town water supply) access licences.
3. to water taken for domestic consumption by stock and domestic access licences.
4. for the first 5 years of the plan to water taken for stock watering by stock and domestic access licences.
5. to water taken from existing dams. Any existing licence conditions associated with a dam will be carried forward under the plan.

Dealing rules

INTO management zone	Not permitted.
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Dealing rules	
WITHIN management zone	Permitted, subject to assessment. Trade into the Kangaroo River Upper Escarpment Zone is permitted so as long as total licence shares in the escarpment zone do not exceed 1633 ML. The following trades within the Kangaroo River Management Zone are not permitted: <ul style="list-style-type: none"> • <i>from</i> rivers and in river natural pools <i>to</i> off river natural pools and in river and off river artificial pools, • <i>between</i> off river natural pools, and • <i>from</i> off river artificial pools <i>to</i> off river natural pools.
Conversion to High Flow Access Licence	Not permitted.
Applications for Aboriginal community development licences	Not permitted.
Applications for new in river dams	Not permitted.

More information about the planning process for the Greater Metropolitan Region Unregulated water sources is available at the NSW Department of Primary Industries, Water website: www.water.nsw.gov.au.

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Water Sharing Rules

Kedumba River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Kedumba River to the confluence of Kedumba River and Coxs River and the hydrological catchment of Coxs River between the confluence of Kedumba River and Coxs River and the confluence of Coxs River and Lake Burragorang as defined for Lake Burragorang MZ.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s28

Water Sharing Rules

Kowmung River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Kowmung River to the confluence of Kowmung River and the Coxs River, the hydrological catchment of Coxs River between the confluence of Kowmung River and Coxs River and the confluence of Coxs River and Kedumba River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site. Note the cease to pump may be amended to a volume of flow equivalent to the 95 th percentile after year five and the 80 th percentile after year nine based on installation of a suitable river flow gauge and adequate data is collected to estimate the 95 th and 80 th percentile river flows.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Not permitted into the hydrological catchment of the Kowmung River including Tuglow Hole Creek at and above the confluence with Tuglow Hole Creek. Permitted elsewhere within the management zone. Not permitted into or above reaches declared a “wild river”.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s27

Water Sharing Rules

Lake Illawarra Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchments of Lake Illawarra and east of Lake Illawarra between Wollongong Coastal MZ and Minnamurra Coastal MZ, and excluding the hydrological catchment of Macquarie Rivulet, east to the mangrove limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Trades not permitted into the hydrological catchments of Koono Bay East and Windang. Elsewhere, trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s15

Water Sharing Rules

Lane Cove River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of the Lane Cove River to the confluence of the Lane Cove River and Parramatta River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Cease to pump	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s47

Water Sharing Rules

Lower Hawkesbury River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Hawkesbury River between the confluence of Hawkesbury River and Colo River to the mangrove limit but excluding the area north of the northern boundary of the groundwater sharing plan for the Greater Metropolitan Region east of the Macdonald River MZ; and excluding the hydrological catchments of Mangrove Creek, Mooney Mooney Creek and the <i>non-tidal</i> reaches of the hydrological catchments of Webbs Creek, Doyles Creek, Macdonald River, Berowra Creek and Cowan Creek. The tidal reaches of these tributaries are included in the management zone.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
Environmental Flow Protection Rule (EFPR)	A EFPR will be in place when flows are at or less than the very low flows for the Upper Hawkesbury River (Cattai Creek to Colo River Management Zone) and the very low flows for the Colo River Management Zone. Note the flow classes may be amended based on further studies and/or environmental releases from Warragamba Dam, Douglas Park Weir or Maldon Weir during the term of the plan.
Reference point	Gauges as specified for the Upper Hawkesbury River (Cattai Creek to Colo River) and the Colo River Management Zones.

Trading rules	
INTO management zone	Not permitted, except where the licence is held by the NSW or Commonwealth Governments for the purpose of providing water to the environment.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with conversion rate of 1:2.5 for share components from unregulated river to unregulated high flow access licences where management systems are available to protect environmental releases from upstream dams and to estimate suitable flow classes.

Lagoon rules	
Trading onto a lagoon from a river	Not permitted.
Application for new works on a lagoon	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s35

Water Sharing Rules

Lower Nepean River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Nepean River between the confluence of Nepean River and Warragamba River and the confluence of Nepean River and Hawkesbury River and excluding the hydrological catchments of Erskine Creek and Glenbrook Creek.	
Note: After year 5 of the plan a new management zone may be created splitting the management zone at Penrith Weir given that a new gauge is currently being installed. Daily access rules for the new management zone will start after year 5.	

Rules Summary	
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.	
Access Rules	
Environmental Flow Protection Rule (EFPR)	
A Class	<p>For years 1 to 5 of the Plan an EFPR will be in place when flows are equal to or less than:</p> <ol style="list-style-type: none"> Very low flows for Wallacia Management Zone * 0.9), plus Volume of water released from St Marys Water Recycling Plant * distribution factor associated with the percentile of total inflows to dams (Table 1). <p>From year 6 of the Plan, an EFPR will be in place when flows are equal to or less than:</p> <ol style="list-style-type: none"> Very low flows for Wallacia Management Zone * 0.9, plus Volume of water released from St Marys Water Recycling Plant * distribution factor associated with the percentile of total inflows to dams (Table 1), plus The lesser of gauged tributary inflows between Warragamba Dam and the confluence of the Nepean River and the Grose River or the 95th percentile for those gauged tributary inflows.

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B Class	<p>For years 1 to 5 of the Plan an EFPR will be in place when flows are less than:</p> <ol style="list-style-type: none"> 1. Very low flows for Wallacia Management Zone * 0.9, plus 2. Volume of water released from St Marys Water Recycling Plant * distribution factor associated with the percentile of total inflows to dams (Table 1), plus 3. 25 ML from November to March and 17 ML from April to October. <p>From year 6 of the Plan, an EFPR will be in place when flows are less than:</p> <ol style="list-style-type: none"> 1. Very low flows for Wallacia Management Zone * 0.9, plus 2. Volume of water released from St Marys Water Recycling Plant * distribution factor associated with the percentile of total inflows to dams (Table 1), plus 3. the lesser of gauged tributary inflows between Warragamba Dam and the confluence of the Nepean River and the Grose River or the 95th percentile for those gauged tributary inflows, plus 4. 25 ML from November to March and 17 ML from April to October.
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Table 1.

Column 1 (Percentile of total inflows to dams)	Column 2 (Factor)
100	0.00
80	0.20
65	0.56
55	0.79
50	0.90
0	1.00
All intermediate percentiles to the above	Interpolate between the two known factors

Note: Subject to conditions of the Plan, all licences in the Lower Nepean River Management Zone are B class licences, except the licence to be held by Penrith Lakes Development Corporation, which shall be a high flow licence. Sydney Water Corporation, which holds a water licence in the Upper Hawkesbury River (Grose River to South Creek) Management Zone, shall be subject to an EFPR based on A class flows in this Management Zone.

Commence to pump

A Class	A class licence holders may commence to pump when flows exceed the EFPR volume for holders of A class licences.
B Class	B class licence holders may commence to pump when flows exceed the EFPR volume for holders of B class licences.
Reference point	Nepean River at Yarramundi (flow gauge 2122001).

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Access to very low flows (for survival watering)	
Licence holders have limited access to very low flows to ensure the survival of crops at critical stages in the crop cycle. The uses to which exemptions apply and the reasons for their exemptions are listed below.	
Exemptions	New plantings of all crops, for a period of 30 days after planting
	Herbicide application to turf where this is required at set times specified by the client.
	Vegetable and turf washing and misting.
	For a 5 day period prior to harvesting of turf where a specific date of harvest has been set by the client and for wetting and cutting the face of turf.
These rules will be reviewed after year 5 of the plan to determine if they are still necessary.	

Trading rules	
INTO management zone	Permitted, providing total entitlement does not exceed an additional 3.65 GL above the total entitlement for the entire management zone at the commencement of the plan.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Lagoon rules	
Trading onto a lagoon from a river	Not permitted.
Application for new works on a lagoon	Not permitted.

More information

- about the development of the water sharing rules can be found on the water source Report Cards
- on the Water Sharing Plan for the Greater Metropolitan Region unregulated water sources generally is available at: www.water.nsw.gov.au

Water Sharing Rules

Lower Kangaroo River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Four management zones have been included in this rules summary as planning for the Lower Kangaroo River Catchment was undertaken as a single management zone	
Boundary Definition	
Yarrunga Creek	Includes the hydrological catchment of Yarrunga Creek at and below Fitzroy Falls reservoir.
Fitzroy Falls	Includes all hydrological catchments of Fitzroy Falls Reservoir above Fitzroy Falls Reservoir.
Lower Kangaroo River	Includes the hydrological catchment of Kangaroo River below the flow reference point (<i>Water Sharing Plan for Kangaroo River Water Source 2003</i>) located at grid reference KG730541, Lot No. 24, DP 22827 and excluding the hydrological catchment of Bundanoon Creek and Yarrunga Creek.
Bundanoon Creek	Includes the hydrological catchment of Bundanoon Creek to the confluence of Bundanoon Creek and the Kangaroo River.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules for the Fitzroy Falls Management Zone

A class	For years one to five, users must cease to pump when flows are at or below the 0.4 ML/day percentile. For years six to ten, users must cease to pump when flows are at or less than the 0.4 ML/day (98 th percentile) unless NOW can demonstrate that a concession should not apply if users can store water for dry times, in which case users must cease to pump when flows are at or less than the 0.8 ML/day (95 th percentile).
Reference point	Yarrunga Creek at Wildes Meadow (SCA flow gauge 215233).

Access Rules for the Yarrunga Creek Management Zone

Cease to pump	For years one to ten of the plan users must cease to pump when flows are at or less than five thirds of the preceding month's inflows to Fitzroy Falls Reservoir.
Reference point	Yarrunga Creek at Wildes Meadow (SCA flow gauge 215233).

Access Rules for the Lower Kangaroo River Management Zone	
A class	Users must cease to pump when flows are at or less than 5.4 ML/day.
Commence to pump – A class only	Users may commence to pump when flows are greater than 7 ML/day.
Reference point	Kangaroo Valley at Hampden Bridge (flow gauge 215220).
Access Rules for the Bundanoon Creek Management Zone	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.
Trading rules for the Fitzroy Falls Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Yarrunga Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Lower Kangaroo River Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Bundanoon Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s10

Water Sharing Rules

Lower Shoalhaven River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Three management zones have been included in this report card since the catchment of the Lower Shoalhaven River includes multiple management units.	
Boundary Definition	
Lower Shoalhaven River	Includes the Shoalhaven River below the confluence of Kangaroo River east to the mangrove limit.
Bomaderry Creek	Includes the hydrological catchment of Bomaderry Creek.
Lower Shoalhaven River Catchment	Includes the hydrological catchment of the Shoalhaven River below the confluence of the Kangaroo River and the Shoalhaven River, excluding Bomaderry Creek MZ and the Lower Shoalhaven River MZ.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules for the Lower Shoalhaven River Management Zone	
Environmental Flow Protection Rule (EFPR)	Users must cease to pump when flows are at or less than 69 ML/day.
Reference point	Shoalhaven River at Grassy Gully No 2 (flow gauge 215216).
Access Rules for the Bomaderry Creek Management Zone	
Environmental Flow Protection Rule (EFPR)	Users must cease to pump when flows are at or less than 0.4 ML/day.
Commence to pump	Users may commence to pump when flows are greater than 1 ML/day.
Reference point	Bomaderry Creek at Bomaderry (flow gauge 215016).
Access Rules for the Lower Shoalhaven River Catchment Management Zone	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules for the Lower Shoalhaven River Management Zone	
INTO management zone	Trading into the zone not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment. No trades from below to above the Burrier town water supply pumping station.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Bomaderry Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Lower Shoalhaven River Catchment Management Zone	
INTO management zone	Trading into the zone not permitted if the trade will increase the total licensed entitlement for the zone, with the exception of the hydrological catchments of Flat Rock Creek and Yalwal Creek which is prohibited.
WITHIN management zone	Permitted, subject to assessment. Prohibited into the hydrological catchments of Flat Rock Creek and Yalwal Creek.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s11

Water Sharing Rules

Macdonald River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Webbs Creek to the tidal limit and the hydrological catchment of the Macdonald River to the confluence of the Macdonald River to the tidal limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
A class	Users must cease to pump when flows are at or less than 1 ML/day.
B class	Users must cease to pump when flows are at or less than 16 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded 1 ML/day for a period of 24 hours.
Reference point	Macdonald River at St Albans (flow gauge 212010).

Trading rules	
INTO management zone	Not permitted if the trade will increase the total licensed entitlement for the management zone.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Permitted with conversion rate of 1:2.5 for share components from unregulated river to unregulated high flow access licences.
Trading onto a lagoon from a river	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s36

Water Sharing Rules

Macquarie Rivulet Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Macquarie Rivulet to the confluence of Macquarie Rivulet and Lake Illawarra.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
A class	<p>For years one to five of the plan users must cease to pump when flows are at or less than 4.8 ML/day.</p> <p>For years six to ten of the plan users must cease to pump when flow are at or less than 6.5 ML/day.</p>
B class	<p>For years one to five of the plan users must cease to pump when flows are at or less than 20.8 ML/day.</p> <p>For years six to ten of the plan users must cease to pump when flows are at or less than 9 ML/day.</p>
C class	<p>For years six to ten of the plan users must cease to pump when flows are at or less than 20.8 ML/day.</p>
Commence to pump – A class only	<p>For years one to five of the plan users may commence to pump when flows are greater than 6.5 ML/day.</p> <p>For years six to ten of the plan users may commence to pump when flows are greater than 8.0 ML/day.</p>
Daily flow sharing	<p>From Year six of the plan daily flow sharing will be introduced for A Class. The total daily extraction limit is set at 5.4 ML/day. This is the volume of water which is available for sharing between licensed extractors. If a study shows high instream values are at risk from extractions the total daily extraction limit for B and C Classes may be set at 60% of the flow class after year six.</p> <p>Initial assessment of these volumes to different categories of access licences in A class is as follows:</p> <ul style="list-style-type: none"> • 0.16 ML/day to domestic and stock access licences • 5.24 ML/day to unregulated river access licences.
Reference point	Macquarie Rivulet at Albion Park (flow gauge 214003).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s16

Water Sharing Rules

Middle Harbour Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Middle Harbour River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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Water Sharing Rules

Middle Nepean River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zones.
Note: Nine management zones (MZs) have been included in this rules summary as planning for the Middle Nepean River Catchment was undertaken as a single management unit.	
Boundary Definition	
Menangle Weir MZ	Includes the reach of the Nepean River below Douglas Park Weir to and including Menangle Weir.
Camden Weir MZ	Includes the reach of the Nepean River below Menangle Weir to and including Camden Weir. This MZ includes Thurns Weir and Bergins Weir.
Sharpes Weir MZ	Includes the reach of the Nepean River below Camden Weir to and including Sharpes Weir.
Cobbity Weir MZ	Includes the reach of the Nepean River below Sharpes Weir to and including Cobbity Weir.
Mount Hunter Rivulet Weir MZ	Includes the reach of the Nepean River below Cobbity Weir to and including Mount Hunter Rivulet Weir.
Brownlow Hill Weir MZ	Includes the reach of the Nepean River below Mount Hunter Rivulet Weir to and including Brownlow Hill Weir.
Theresa Park Weir MZ	Includes the reach of the Nepean River below Brownlow Hill Weir to and including Theresa Park Weir.
Wallacia Weir MZ	Includes the reach of the Nepean River below Theresa Park Weir to and including Wallacia Park Weir.
Mid Nepean River Catchment MZ	Includes the hydrological catchment of the Nepean River below Douglas Park Weir to Wallacia Weir.

Rules Summary				
The following rules are a guide only. For more information about actual license conditions, contact the NSW Office of Water in Parramatta, phone 8838 7531.				
Management Zone	EFPR			Reference point
	When inflows to the dams > 80 th percentile	When inflows are between 80 th and 95 th percentile	When inflows are < 95 th percentile	
Menangle Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.9.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.8.	Nepean River at Menangle (212238).
Camden Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.878.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.761.	Camden Weir stage gauge.
Sharpes Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.871.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.748.	Sharpes Weir stage gauge.
Cobbity Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.863.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.734.	Cobbity Weir stage gauge.
Mount Hunter Rivulet Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.858.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.726.	Mount Hunter Rivulet Weir stage gauge.

Brownlow Hill Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.856.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.734.	Brownlow Hill Weir stage gauge.
Theresa Park Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.837.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.687.	Theresa Park Weir stage gauge.
Wallacia Weir	An EFPR will be in place when the weir is unable to pass the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.810.	An EFPR will be in place when the weir is unable to pass (the volume of water released from Pheasants Nest Weir and Broughtons Pass Weir in the previous 24 hours) * 0.64.	Nepean River at Wallacia (212202).
Mid Nepean River Catchment	Pumping is not permitted when there is no visible flow at the pump site.			Pump site.

Note: Daily releases are not required to be made due to an emergency situation at that weir or an upstream weir and the holder notifies the Minister within 7 days of becoming aware of the emergency, the Minister is satisfied that releases cannot be made due to work capacity constraints or maintenance, refurbishment or modification work, at that weir or an upstream one for a period of more than 24 hours; the Minister requires an alternate release to be made due to an emergency or maintenance activity upstream; the stage of the weir is less than the stage necessary to deliver the release at that weir or upstream; when Wallacia Weir is spilling at a rate equal to or greater than its release requirement and when, from years 1 to 5 of the Plan, releases cannot be made despite the best endeavors of the licence holder to meet them. If the Minister determines that any of the release requirements aforementioned cannot be met despite best efforts then the Minister may conduct a review into why release requirements are not being met.

Trading rules for the Menangle Weir Management Zone	
INTO management zone	Only permitted if trading from the Camden Weir Management Zone, Sharpes Weir Management Zone, Cobbity Weir Management Zone, Mount Hunter Rivulet Weir Management Zone, Brownlow Hill Weir Management Zone, Theresa Park Weir Management Zone or Wallacia Weir Management Zone if the trade will result in no net gain in entitlement to the water source.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Camden Weir Management Zone	
INTO management zone	Trading is permitted from Menangle Weir. Trading is only permitted from the Sharpes Weir Management Zone, Cobbity Weir Management Zone, Mount Hunter Rivulet Weir Management Zone, Brownlow Hill Weir Management Zone, Theresa Park Weir Management Zone or Wallacia Weir Management Zone if the trade will result in no net gain in entitlement to the water source.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Sharpes Weir Management Zone	
INTO management zone	Trading is permitted from Menangle Weir and Camden Weir. Trading is only permitted from the Cobbity Weir Management Zone, Mount Hunter Rivulet Weir Management Zone, Brownlow Hill Weir Management Zone, Theresa Park Weir Management Zone or Wallacia Weir Management Zone if the trade will result in no net gain in entitlement to the water source.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Cobbity Weir Management Zone	
INTO management zone	Trading is permitted from Menangle Weir, Camden Weir and Sharpes Weir. Trading is only permitted from the Mount Hunter Rivulet Weir Management Zone, Brownlow Hill Weir Management Zone, Theresa Park Weir Management Zone or Wallacia Weir Management Zone if the trade will result in no net gain in entitlement to the water source.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Mount Hunter Rivulet Weir Management Zone	
INTO management zone	Trading is permitted from Menangle Weir, Camden Weir, Sharpes Weir and Cobbity Weir. Trading is only permitted from the Brownlow Hill Weir Management Zone, Theresa Park Weir Management Zone or Wallacia Weir Management Zone if the trade will result in no net gain in entitlement to the water source.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Brownlow Hill Weir Management Zone	
INTO management zone	Trading is permitted from Menangle Weir, Camden Weir, Sharpes Weir, Cobbity Weir and Mount Hunter Rivulet Weir. Trading is only permitted from the Theresa Park Weir Management Zone or Wallacia Weir Management Zone if the trade will result in no net gain in entitlement to the water source.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Theresa Park Weir Management Zone	
INTO management zone	Trading is permitted from Menangle Weir, Camden Weir, Sharpes Weir, Cobbity Weir, Mount Hunter Rivulet Weir and Brownlow Hill Weir. Trading is only permitted from the Wallacia Weir Management Zone if the trade will result in no net gain in entitlement to the water source.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Wallacia Weir Management Zone	
INTO management zone	<p>Trading is permitted from Menangle Weir, Camden Weir, Sharpes Weir, Cobbity Weir, Mount Hunter Rivulet Weir, Brownlow Hill Weir and Theresa Park Weir.</p> <p>Trading is not permitted from the Mid Nepean River Catchment Management Zone, Lower Nepean River Management Zone, Erskine Creek and Glenbrook Creek Management Zone, Grose River Management Zone, Capertee River Management Zone, Colo River Management Zone, Upper Hawkesbury River (Grose River to South Creek) Management Zone, Upper Hawkesbury River (South Creek to Cattai Creek) Management Zone, Upper Hawkesbury River (Cattai Creek to Colo River) Management Zone, Lower Hawkesbury River Management Zone, Macdonald River Management Zone, Upper South Creek Management Zone, Lower South Creek Management Zone, Cattai Creek Management Zone, Berowra Creek and Cowan Creek Management Zone and Warragamba River Management Zone.</p>
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Mid Nepean River Catchment Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.

Access to very low flows (due to a water shortage)

When a 'water shortage' is triggered there may be limited access to the very low flows during this period. A water shortage will be signalled when a 24 hour forecast temperature above or below a predefined temperature occurs along with consecutive previous days EFPR. The conditions which will trigger a 'water shortage' situation are shown in below. Note that the temperature conditions would be the 4:00 pm or later Bureau of Metrology forecast for Campbelltown for the following day.

Forecast Temperature (T, °C)	No. of consecutive days EFPR before full exemption	Months
$T < 4$	0	All
$4 \leq T < 23$	14	May to August
	9	September to April
$23 \leq T < 28$	4	All
$28 \leq T < 31$	1	All
$31 \leq T$	0	All
Duration of water shortage	Once a water shortage exemption is signalled, it shall remain in force for 3 days irrespective of the pumping conditions and temperature	

The NSW Office of Water is to determine at the end of each water year the total volume of water extracted from very low flows during a water shortage. Where the volume of water extracted exceeds 41 ML/day, the Minister is to assess whether a total daily extraction limit is to be introduced for these management zones on extraction during periods of a water shortage.

Lagoon rules

Trading onto a lagoon from a river	Not permitted.
Application for new works on a lagoon	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s29

Water Sharing Rules

Mid Shoalhaven River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of the Shoalhaven River between the confluence of the Shoalhaven River and Jerrabutgulla Creek and the Shoalhaven River and Mongarlowe River, and excluding the hydrological catchments of Reedy Creek and Boro Creek.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	For years one to five of the plan users must cease to pump when flows are at or less than 24 ML/day. For years six to ten of the plan users must cease to pump when flows are at or less than 48 ML/day.
Commence to Pump – A class only	For years one to five of the plan users may commence to pump when flows are greater than 46 ML/day. For years one to five of the plan users may commence to pump when flows are greater than 63 ML/day.
Reference point	Shoalhaven River at Warri (flow gauge 215002).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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NOW 11_070.s2

Water Sharing Rules

Minnamurra Coastal Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchments of the Crooked River, Ooaree Creek, Munna Mannora Creek, Spring Creek, and the hydrological catchments located between the hydrological catchments of the Minnamurra River and Lake Illawarra and east of the Illawarra Range to the mangrove limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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NOW 11_070.s14

Water Sharing Rules Minnamurra River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrologic catchment of the Minnamurra River to the mangrove limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	<p>For years one to five of the plan users must cease to pump when flows are at or less than 1 ML/day.</p> <p>For years six to ten of the plan users must cease to pump when flows are at or less than 3 ML/day.</p>
B class	<p>For years one to five of the plan users must cease to pump when flows are at or less than 19 ML/day.</p> <p>For years six to ten of the plan users must cease to pump when flows are at or less than 6.4 ML/day.</p>
C class	For years six to ten of the plan users must cease to pump when flows are at or less than 19 ML/day.
Commence to pump – A class only	<p>For years one to five of the plan users may commence to pump when flows have exceeded the 1 ML/day for a period of 24 hours.</p> <p>For years six to ten of the plan users may commence to pump when flows have exceeded the 3 ML/day for a period of 24 hours.</p>
Daily flow sharing	<p>From Year 6 of the plan daily flow sharing will be introduced for A Class. The total daily extraction limit is set at 1.9 ML/day. This is the volume of water which is available for sharing between licensed extractors. If a study shows high instream values are at risk from extractions the total daily extraction limit for B and C Classes may be set at 30% of the flow class after year 6.</p> <p>Initial assessment of these volumes to different categories of access licences in A class is as follows:</p> <ul style="list-style-type: none"> • 0.10 ML/day to domestic and stock access licences • 1.80 ML/day to unregulated river access licences.
Reference point	Minnamurra River at Browns Lane (flow gauge 214010).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s13

Water Sharing Rules

Mongarlowe River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of the Mongarlowe River to the confluence of the Mongarlowe River and the Shoalhaven River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	Users must cease to pump when flows are at or less than 7.6 ML/day.
Commence to Pump – A class only	Users may commence to pump when flows have exceeded the 12.8 ML/day.
Reference point	Mongarlowe River at Mongarlowe (flow gauge 215210).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s5

Water Sharing Rules

Mulwaree River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrologic catchment of Mulwaree River to the confluence of the Mulwaree River and the Wollondilly River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	Users must cease to pump when flows are at or less than 1 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded the 1ML/day for a period of 24 hours.
Reference point	Mulwaree River at the Towers (flow gauge 2122725).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s18

Water Sharing Rules

Nattai River and Lake Burragorang Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Three management zones (MZs) have been included in this rules summary as planning for the Nattai River and Lake Burragorang Catchment was undertaken as a single management zone	
Boundary Definition	
Nattai River MZ	Includes the hydrological catchment of Nattai River.
Little River MZ	Includes the hydrological catchment of Little River.
Lake Burragorang MZ	Includes the hydrological catchments of Lake Burragorang and the Warragamba River at and above Warragamba Dam, including Warragamba Dam and excluding: (a) the hydrologic catchment of the Coxs River upstream of a projection from (i) the northern boundary of Portion 38, Parish of Speedwell, County of Westmoreland where it intersects the water level on Lake Burragorang, to (ii) the southern boundary of Portion 37, Parish of Kedumba, County of Cook where it intersects the water level on Lake Burragorang (b) the hydrological catchment of the Wollondilly River, (c) the hydrological catchment of Werri Berri Creek, (d) the Nattai River MZ, and (e) the Little River MZ.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules for the Nattai River Management Zone

Environmental Flow Protection Rule (EFPR)	Users must cease to pump when flows are at or less than 2.5 ML/day.
Commence to pump	Users may commence to pump when flows have exceeded 2.5 ML/day for a period of 24 hours.
Reference point	Nattai River at The Crags (flow gauge 2122801).

Access Rules for the Little River Management Zone

Environmental Flow Protection Rule (EFPR)	Users must cease to pump when flows are at or less than 3 ML/day.
Pumping restrictions	Users may commence-to-pump when flows have exceeded 3 ML/day for a period of 24 hours.
Reference point	Little River at the Fire Road W41 (flow gauge 2122809).

Access Rules for the Lake Burragorang Management Zone	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Special environmental flow rule	Releases of planned environmental water shall be made from Warragamba Dam at a rate of 5 ML/day.
Reference point	Pump site.

Trading rules for the Nattai River Management Zone	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Little River Management Zone	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Lake Burragorang River Management Zone	
INTO management zone	Not permitted if trade will increase the total licensed entitlement for the zone, except where the licence is held by the NSW or Commonwealth Governments for the purpose of providing water to the environment.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s21

Water Sharing Rules

Nerrimunga Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Nerrimunga Creek to the confluence of Nerrimunga Creek and the Shoalhaven River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s7

Water Sharing Rules

Northern Sydney Coastal Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes all hydrological catchments lying between the hydrologic catchments of Middle Harbour River and Hawkesbury River and east of the hydrologic catchment of the Hawkesbury River east to the tidal limit or mean high water mark.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site. Flow classes may be established for this management zone if environmental flows rules are established for the Manly Dam.
Reference point	Pump site.

Trading rules	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s48

Water Sharing Rules

Parramatta River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Two management zones have been included in this rules summary as planning for the Parramatta River Catchment was undertaken as a single management unit.	
Boundary Definition	
Upper Parramatta River MZ	Includes the hydrological catchment of Darling Mills Creek, Toongabbie Creek and Parramatta River at and above river flow gauge Parramatta River at Hospital (213004).
Lower Parramatta River MZ	Includes the hydrological catchment of Parramatta River to the mangrove limit excluding the Upper Parramatta River MZ.

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules for the Upper Parramatta River Management Zone	
A class	Users must cease to pump when flows are at or less than 1 ML/day.
Commence to pump – A class only	Users may commence-to-pump when flows have exceeded 1 ML/day for a period of 24 hours.
Reference point	Toongabbie Creek at Briens Road (flow gauge 213005).
Access Rules for the Lower Parramatta River Management Zone	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules for the Upper Parramatta River Management Zone	
INTO management zone	Trading into the zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Lower Parramatta River Management Zone	
INTO management zone	Trading into the zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s46

Water Sharing Rules

Reedy Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Reedy Creek	Includes the hydrological catchment of Reedy Creek to the confluence of Reedy Creek and the Shoalhaven River.

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A class	Users must cease to pump when flows are at or less than 0.2 ML/day.
Commence to Pump – A class only	Users may commence to pump when flows are greater than 0.6 ML/day.
Reference point	Reedy Creek at Manar (flow gauge 215238).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted except into: <ul style="list-style-type: none"> hydrological catchment of Sandhills Creek at and above the confluence of Mulloon Creek, and the hydrological catchment of Mulloon Creek, at and above the confluence of Sandhills Creek, excluding Mulloon Creek.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s3

Water Sharing Rules

Shoalhaven River Gorge Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Two management zones have been included in this rules summary as planning for the Shoalhaven River Gorge catchment was undertaken as a single management unit.	
Boundary Definition	
Shoalhaven River Gorge	Includes the hydrological catchment of the Shoalhaven River between the confluence of the Shoalhaven River and the Mongarlowe River and the confluence of the Shoalhaven River and the Kangaroo River, including Tallowa Dam, and excluding the hydrological catchment of Barbers Creek.
Barbers Creek	Includes the hydrological catchment of Barbers Creek.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules for the Shoalhaven River Gorge Management Zone	
A class	Users must cease to pump when flows are at or less than 40 ML/day.
Commence to pump – A class only	Users may commence to pump when flows are greater than 77 ML/day.
Reference point	Shoalhaven River at Fossickers Flat (flow gauge 215207).
Access Rules for the Barbers Creek Management Zone	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted where there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules for the Shoalhaven River Gorge Management Zone	
INTO management zone	Permitted but only up to a maximum total entitlement of 2198 ML/year in the Shoalhaven River Gorge Management Zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not Permitted.

Trading rules for the Barbers Creek Management Zone	
INTO management zone	Trading into this management zone is not permitted if the trade will increase the total licensed entitlement for the management zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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NOW 11_070.s9

Water Sharing Rules

South Creek Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Two management zones (MZs) have been included in this rules summary as planning for the South Creek Catchment was undertaken as a single management unit.	
Boundary Definition	
Lower South Creek MZ	Includes the hydrological catchment of South Creek below river flow gauge 212048.
Upper South Creek MZ	Includes the hydrological catchment of South Creek at and above river flow gauge 212048.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules for the Upper South Creek Management Zone	
A class	Users must cease to pump when flows are at or less than 0.2 ML/day.
B class	Users must cease to pump when flows are at or less than 6.2 ML/day.
Commence to pump – A class only	Users may commence to pump when flows have exceeded 0.2 ML/day for a period of 24 hours.
Reference point	South Creek at the Great Western Highway (flow gauge 212048).
Access Rules for the Lower South Creek Management Zone	
A class only	Users must cease to pump when flows are at or less than 3 ML/day.
B class	Users must cease to pump when flows are at or less than 58 ML/day.
Daily flow sharing	Daily flow sharing may be introduced for A and B classes if discharge ceases from the sewerage treatment plant during the term of the plan.
Reference point	South Creek at the Richmond Road (flow gauge 212297).

Trading rules for the Upper South Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with conversion rate of 1:2.5 for share components from unregulated river to unregulated river high flow access licences.
Trading onto a lagoon from a river	Not permitted.
Trading rules for the Lower South Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with conversion rate of 1:2.5 for share components from unregulated river to unregulated river high flow access licences.
Trading onto a lagoon from a river	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s37

Water Sharing Rules

Southern Sydney Coastal Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes all hydrological catchments lying between the Wollongong Coastal MZ (Illawarra Water Source) and Hacking River MZ and east of the Hacking River MZ east to the mangrove limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s45

Water Sharing Rules

Upper Hawkesbury River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Three management zones (MZs) have been included in the rules summary as planning for the Upper Hawkesbury River Catchment was undertaken as a single management unit.	
Boundary Definition	
Upper Hawkesbury River (Grose River to South Creek) MZ	Includes the hydrological catchment of Hawkesbury River above the confluence of Hawkesbury River and South Creek. Also includes the tidal reach of South Creek, Eastern Creek, Nepean River and Grose River.
Upper Hawkesbury River (South Creek to Cattai Creek) MZ	Includes the hydrological catchment of Hawkesbury River at and between the confluence of Hawkesbury River and South Creek and the confluence of Hawkesbury River and Cattai Creek. Also includes the tidal reach of Cattai Creek.
Upper Hawkesbury River (Cattai Creek to Colo River) MZ	Includes the hydrological catchment of Hawkesbury River at and below the confluence of Hawkesbury River with Colo River. Also includes the tidal reach of Little Cattai Creek, Colo River and Wheeny Creek.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules for the Upper Hawkesbury River (Grose River to South Creek) Management Zone

Environmental Flow Protection Rule (EFPR)	<p>An EFPR will be in place when flows are at or less than the very low flows for the Lower Nepean River Management Zone and Grose River Management Zone plus 0.44 ML/day.</p> <p>Note the flow classes may be amended based on further studies during the term of the plan which will look at an EFPR based on salinity levels.</p>
Reference point	Gauges as specified for the flow classes for the Lower Nepean River and Grose River management zones.

Access Rules for the Upper Hawkesbury River (South Creek to Cattai Creek) Management Zone	
Environmental Flow Protection Rule (EFPR)	<p>An EFPR will be in place when flows are at or less than the very low flows for the Upper Hawkesbury River (Grose River to South Creek) Management Zone plus the very low flows for the Lower South Creek Management Zone plus 0.22 ML/day.</p> <p>Note the flow classes may be amended based on further studies during the term of the plan.</p>
Reference point	Gauges as specified for the Upper Hawkesbury River (Grose River to South Creek) and Lower South Creek management zones.
Access Rules for the Upper Hawkesbury River (Cattai Creek to Colo River) Management Zone	
Environmental Flow Protection Rule (EFPR)	<p>An EFPR will be in place when flows are at or less than the very low flows for the Upper Hawkesbury River (South Creek to Cattai Creek) Management Zone plus the very low flows for the Cattai Creek Management Zone plus 0.22 ML/day.</p> <p>Note the flow classes may be amended based on further studies during the term of the plan.</p>
Reference point	Gauges as specified for the Upper Hawkesbury River (South Creek to Cattai Creek) and Cattai Creek management zones.

Trading rules for the Upper Hawkesbury River (Grose River to South Creek) Management Zone	
INTO management zone	<p>Permitted from the Upper Hawkesbury River (South Creek to Cattai Creek) and Upper Hawkesbury River (Cattai Creek to Colo River) management zones.</p> <p>Trading also permitted from the Lower Nepean Management Zone if the trade does not increase the total entitlement for the intended management zone.</p>
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Upper Hawkesbury River (South Creek to Cattai Creek) Management Zone	
INTO management zone	<p>Permitted from the Upper Hawkesbury River (Grose River to South Creek) and Upper Hawkesbury River (Cattai Creek to Colo River) management zones.</p> <p>Trading also permitted from the Lower Nepean Management Zone if the trade does not increase the total entitlement for the intended management zone.</p>
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Upper Hawkesbury River (Cattai Creek to Colo River) Management Zone	
INTO management zone	Permitted from the Upper Hawkesbury River (Grose River to South Creek) and Upper Hawkesbury River (South Creek to Cattai Creek) management zones. Trading also permitted from the Lower Nepean Management Zone if the trade does not increase the total entitlement for the intended management zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Access to very low flows (due to a water shortage)		
<p>When a 'water shortage' is triggered there may be limited access to the very low flows during this period. A water shortage will be signalled when a 24 hour forecast temperature above or below a predefined temperature occurs along with consecutive previous days EFPR. The conditions which will trigger a 'water shortage' situation are shown in below. Note that the temperature conditions would be the 4:00 pm or later Bureau of Meteorology forecast for Richmond for the following day.</p>		
Forecast Temperature (T, °C)	No. of consecutive days EFPR before full exemption	Months
T < 4	0	All
4 ≤ T < 23	14	May to August
	9	September to April
23 ≤ T < 28	4	All
28 ≤ T < 31	1	All
T ≥ 31	0	All
Duration of water shortage	Once a water shortage exemption is signalled, it shall remain in force for 3 days irrespective of the pumping conditions and temperature.	
<p>The NSW Office of Water is to determine at the end of each water year the total volume of water extracted from very low flows during a water shortage. Where the volume of water extracted exceeds 105 ML/day, the Minister is to assess whether a total daily extraction limit is to be introduced for these management zones on extraction during periods of water shortage.</p>		

Access to very low flows (for survival watering)

As well as access to very low flows due to a water shortage, there will also be additional concessions to the extraction of very low flows to ensure the survival of crops at critical stages in the crop cycle. The uses to which exemptions apply and the reasons for their exemptions are listed below.

Exemptions

New plantings of all crops, for a period of 30 days after planting.

Herbicide application to turf where this is required at set times specified by the client.

Vegetable and turf washing and misting.

To water turf for a 5 day period prior to harvesting of turf where a specific date of harvest has been set by the client and for wetting and cutting the face of turf.

These rules will be reviewed after year 5 of the plan to determine if they are still necessary.

Lagoon rules

Trading onto a lagoon from a river

Not permitted.

Application for new works on a lagoon

Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s34

Water Sharing Rules

Upper Nepean River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zones.
Note: Eight management zones (MZs) have been included in this rules summary as planning for the Upper Nepean River catchment was undertaken as a single management unit.	
Boundary Definition	
Maldon Weir MZ	Includes the hydrological catchment of the Nepean River between Pheasants Nest Weir, not including Pheasants Nest Weir, and Douglas Park Weir, including Douglas Park Weir and excluding the hydrological catchment of Stonequarry Creek.
Pheasants Nest Weir to Nepean Dam MZ	Includes the Nepean River at and between Pheasants Nest Weir, including Pheasants Nest Weir, and Nepean Dam, not including Nepean Dam.
Maguires Crossing MZ	Includes the hydrological catchment of the Nepean River above and including Nepean Dam.
Stonequarry Creek MZ	Includes the hydrological catchment of Stonequarry Creek.
Lower Cataract River MZ	Includes the Cataract River between Broughton Pass Weir, not including Broughton Pass Weir, and the confluence of Cataract River and the Nepean River.
Mid Cataract River MZ	Includes the Cataract River between Broughton Pass Weir, including Broughton Pass Weir, and Cataract Dam, not including Cataract Dam.
Avon River MZ	Includes the Avon River between Avon Dam, not including Avon Dam, and the confluence of Avon River and Cordeaux River.
Cordeaux River MZ	Includes the Cordeaux River between Cordeaux Dam, not including Cordeaux Dam, and the confluence of Avon River and Cordeaux River.
Upper Nepean River Tributaries Headwaters MZ	Includes the hydrological catchment of Nepean River above Douglas Park Weir excluding Maldon Weir MZ, Pheasants Nest Weir to Nepean Dam MZ, Maguires Crossing MZ, Stonequarry Creek MZ, Lower Cataract River MZ, Mid Cataract River MZ, Avon River MZ and Cordeaux River MZ.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules for the Maldon Weir Management Zone

Environmental Flow Protection Rule (EFPR)	An EFPR will be in place when flows are less than the environmental flow releases from Pheasants Nest Weir less estimated transmission losses of water.
Reference point	Nepean River at Maldon Weir (flow gauge 212208).

Access Rules for the Pheasants Nest Weir to Nepean Dam Management Zone

There are presently no licences located in this management zone.

Access Rules for the Maguires Crossing Management Zone

Environmental Flow Protection Rule (EFPR)	An EFPR will be in place when flows are at or less than 14 ML/day.
Commence to pump – A class only	From the commencement of the plan users may commence to pump when flows have exceeded 14 ML/day for a period of 24 hours.
Reference point	Nepean River at Maguires Crossing (flow gauge 212209).

Access Rules for the Stonequarry Creek Management Zone

Environmental Flow Protection Rule (EFPR)	For years one to five of the plan a EFPR will be in place when flows are at or less 0.3 ML/day. For years six to ten of the plan an EFPR will be in place when flows are at or less than 0.6 ML/day.
Commence to pump	For years one to five of the plan users may commence to pump when flows are greater 0.4 ML/day. For years six to ten of the plan users may commence to pump when flows are greater than 0.7 ML/day.
Reference point	Stonequarry Creek at Picton (flow gauge 212053).

Access Rules for the Lower Cataract River Management Zone

There are presently no licences located in this management zone and therefore no access rules are established.

Access Rules for the Mid Cataract River Management Zone

There are presently no licences located in this management zone and therefore no access rules are established.

Access Rules for the Avon River Management Zone

There are presently no licences located in this management zone and therefore no access rules are established.

Access Rules for the Cordeaux River Management Zone

There are presently no licences located in this management zone and therefore no access rules are established.

Access Rules for the Upper Nepean River Tributaries Headwaters Management Zone	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules for the Maldon Weir Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with conversion rate of 1:2.5 for share components from unregulated river to unregulated high flow access licence where suitable management systems are available to protect translucent environmental releases from the upstream dams.

Trading rules for the Pheasants Nest Weir to Nepean Dam Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Maguires Crossing Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment. No trades from below to above SCA dams and vice versa.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Stonequarry Creek Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Lower Cataract River Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Mid Cataract River Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Avon River Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Cordeaux River Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Upper Nepean River Headwaters Tributaries Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment. No trades from below to above SCA dams and vice versa.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s23

Water Sharing Rules

Upper Shoalhaven River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Jerrabuttgula Creek and the Shoalhaven River above the confluence of the Shoalhaven River and Jerrabuttgula Creek.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Nowra, phone 4429 4442.

Access Rules	
A Class	For years one to five of the plan users must cease to pump when flow are at or less than 5 ML/day. For years six to ten of the plan users must cease to pump when flows are at or less than 10 ML/day.
B Class	For years six to ten of the plan users must cease to pump when flows are at or less than 45 ML/day.
Commence to pump – A class only	For years one to five of the plan users may commence to pump when flows are greater than 10 ML/day. For years six to ten of the plan users may commence to pump when flows are greater than 14 ML/day.
Daily flow sharing	If a study identifies high instream values which are at risk from extractions the total daily extraction limit for B and C classes may be set at 30% of the flow class after year six.
Reference point	Shoalhaven River at Kadoona (flow gauge 215008).

Trading rules	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted with conversion rate of 1:2.5 for share components from unregulated river to unregulated high flow access licences.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s1

Water Sharing Rules

Warragamba River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of the Warragamba River between Warragamba Dam and the confluence of the Warragamba River and Nepean River.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact Wayne Conners from the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	For years one to ten of the plan users must cease to pump when flows are less than or equal to 30 ML/day for the months of November through March and must cease to pump when flows are less than or equal to 22 ML/day for the months of April through October. Note: Flow classes may be amended based on environmental releases from Warragamba Dam.
Reference point	Discharge point from Warragamba Dam into Megarritys Creek.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading onto a lagoon from a river	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s40

Water Sharing Rules

Werriberri Creek Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of Werriberri Creek to the confluence of Werriberri Creek and Lake Burragorang.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
A class	For years one to ten of the plan the users must cease to pump when flows are at or less than 2 ML/day.
Commence to pump – A class only	For years one to ten of the plan users may commence-to-pump when flows have exceeded 2 ML/day for a period of 24 hours.
Reference point	Werriberri Creek at Werombi (flow gauge 212244).

Trading rules	
INTO management zone	Trading into this zone is not permitted if the trade will increase the total licensed entitlement for the management zone.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region Unregulated Water Sources is available at: www.water.nsw.gov.au.

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NOW 11_070.s22

Water Sharing Rules

Wingecarribee River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Three management zones (MZs) have been included in this rules summary as planning for the Wingecarribee River Catchment was undertaken as a single management unit.	
Boundary Definition	
Upper Wingecarribee River MZ	Includes the hydrological catchment of the Wingecarribee River at and above river flow gauge 212031.
Lower Wingecarribee River MZ	Includes the hydrological catchment of the Wingecarribee River below river flow gauge 212031.
Medway Rivulet	Includes the hydrological catchment of Medway Rivulet.

Rules Summary	
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.	
Access Rules for the Upper Wingecarribee River	
A class	For years one to five of the plan users must cease to pump when flows are at or less than 6 ML/day. For years six to ten of the plan users must cease to pump when flow are at or less than 9 ML/day.
B class	For years one of five of the plan users must cease to pump when flows are at or less than 32 ML/day. For years six to ten of the plan users must cease to pump when flows are at or less than 14 ML/day.
C class	For years six to ten of the plan users must cease to pump when flows are at or less than 32 ML/day.
Commence to pump – A class only	For years one to five of the plan users may commence to pump when flows have exceeded 6 ML/day for a period of 24 hours.

Daily flow sharing	<p>From year six of the plan daily flow sharing will be introduced for A Class in both management zones. The total daily extraction limit is set at 7.2 ML/day shared across the two management zones. This is the volume of water which is available for sharing between licensed extractors. If a study shows high instream values are at risk from extractions the total daily extraction limit for B and C classes may be set at 30% of the flow class after year 6.</p> <p>Initial assessment of these volumes to different categories of access licences in A class is as follows:</p> <ul style="list-style-type: none"> • 0.06 ML/day to domestic and stock access licenses • 0 ML/day to local water utility access licenses • 0.91 ML/day to unregulated river access licenses.
Reference point	Wingecarribee River at Bong Bong Weir (flow gauge 212031).

Access Rules for the Lower Wingecarribee River	
A class	<p>For years one to five of the plan users must cease to pump when flows are at or less than 12 ML/day.</p> <p>For years six to ten of the plan users must cease to pump when flow are at or less than 16 ML/day.</p>
B class	<p>For years one of five of the plan users must cease to pump when flows are at or less than 63 ML/day.</p> <p>For years six to ten of the plan users must cease to pump when flows are at or less than 24 ML/day.</p>
C class	For years six to ten of the plan users must cease to pump when flows are at or less than 63 ML/day.
Commence to pump – A class only	For years one to five of the plan users may commence to pump when flows have exceeded 16 ML/day.
Daily flow sharing	<p>From year six of the plan daily flow sharing will be introduced for A Class in both management zones. The total daily extraction limit is set at 7.2 ML/day for both management zones. This is the volume of water which is available for sharing between licensed extractors. If a study shows high instream values are at risk from extractions the total daily extraction limit for B and C classes may be set at 30% of the flow class after year 6.</p> <p>Initial assessment of these volumes to different categories of access licences in A class is as follows:</p> <ul style="list-style-type: none"> • 0.06 ML/day to domestic and stock access licenses • 4.26 ML/day to local water utility access licenses • 1.91 ML/day to unregulated river access licenses.
Reference point	Wingecarribee River at Greenstead (flow gauge 212009).

Access Rules for the Medway Rivulet	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules for the Upper Wingecarribee River	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Lower Wingecarribee River	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment, but not into the hydrological catchment of the Wingecarribee River at and below 241565 E and 619498 N in the Lower Wingecarribee River Management Zone.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Medway Rivulet	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules

Wollondilly River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Two management zones (MZs) have been included in this rules summary as planning for the Wollondilly River Catchment was undertaken as a single management unit.	
Boundary Definition	
Upper Wollondilly MZ	Includes the hydrological catchment of the Wollondilly River at and above river flow gauge Wollondilly River at Murrays Flat (2122711).
Lower Wollondilly MZ	Includes the hydrological catchment of the Wollondilly River below river flow gauge 2122711.

Rules Summary

The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules for the Upper Wollondilly River Management Zone

A class	For years one to five of the plan users must cease to pump when flows are at or less than 1 ML/day. For years six to ten of the plan users must cease to pump when flows are at or less than 2 ML/day.
B class	For years one to five of the plan there is no B class established. For years six to ten of the plan B class licence holders must cease to pump when flows are at or less than 6 ML/day.
C class	For years one to five of the plan there is no C class established. For years six to ten of the plan C class licence holders must cease to pump when flows are at or less than 33 ML/day.
Commence to pump – A class only	For years one to five of the plan users may commence to pump when flows have exceeded the 1 ML/day for a period of 24 hours. For years six to ten of the plan users may commence to pump when flows have exceeded the 2 ML/day for a period of 24 hours.

Daily flow sharing	<p>From year six of the plan daily flow sharing will be introduced for A and B Class. The total daily extraction limit is set at 1.8 ML/day for A class, and 9.9 ML/day for B class. This is the volume of water which is available for sharing between licensed extractors.</p> <p>Initial assessment of these volumes to different categories of access licences in A class is as follows:</p> <ul style="list-style-type: none"> • 0.02 ML/day to domestic and stock access licenses • 1.40 ML/day to local water utility access licenses • 0.38 ML/day to unregulated river access licenses. <p>Initial assessment of these volumes to different categories of access licences in B class is as follows:</p> <ul style="list-style-type: none"> • 0.08 ML/day to domestic and stock access licenses • 5.77 ML/day to local water utility access licenses • 4.04 ML/day to unregulated river access licenses.
Reference point	Wollondilly River at Murrays Flat (flow gauge 2122711).
Access Rules for the Lower Wollondilly River Management Zone	
A class	<p>For years one to five of the plan users must cease to pump when flows are at or less than 1 ML/day.</p> <p>For years six to ten of the plan users must cease to pump when flows are at or less than 3 ML/day.</p>
Commence to pump – A class only	<p>For years one to five of the plan users may commence to pump when flows are greater than 3 ML/day.</p> <p>For years six to ten of the plan users may commence to pump flows are greater than 5 ML/day.</p>
Reference point	Wollondilly River at Golden Valley gauge (212271).

Trading rules for the Upper Wollondilly Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.
Trading rules for the Lower Wollondilly Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Not permitted into the hydrological catchment of the Mares Forest Creek at and above the confluence of Guineacor Creek. Permitted elsewhere within the management zone.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules

Wollongong Coastal Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes all hydrological catchments between and including Allans Creek and Stanwell Creek and east of the Illawarra Range as named on 1:100000 topographic map Wollongong, Sheet 9029, east to the mangrove limit.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules	
Environmental Flow Protection Rule (EFPR)	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules

Woronora River Management Zones

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Note: Two management zones (MZs) have been included in this rules summary as planning for the Woronora River Catchment was undertaken as a single management unit.	
Boundary Definition	
Lower Woronora River MZ	Includes the hydrological catchment of Woronora River at and below Woronora Dam.
Upper Woronora River MZ	Includes the hydrological catchment of Woronora River above Woronora Dam.

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Parramatta, phone 8838 7531.

Access Rules for the Lower Woronora River Management Zone	
A class	When inflows to Woronora Dam are less than or equal to the 80 th percentile inflow to the Dam, users must cease to pump when flows are less than the required environmental release from Woronora Dam. When inflows to Woronora Dam are greater than the 80 th percentile inflow, users must cease to pump when flows at the flow reference point are less than the required environmental release rate.
Commence to pump – A class only	Users may commence to pump when flows have exceeded the very low flow class for a period of 24 hours.
Reference point	Sydney Catchment Authority's Woronora Dam.
Access Rules for the Upper Woronora River Management Zone	
Cease to pump	Pumping is not permitted when there is no visible flow at the pump site.
Reference point	Pump site.

Trading rules for the Lower Woronora River Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.

Trading rules for the Upper Woronora River Management Zone	
INTO management zone	Not permitted.
WITHIN management zone	Permitted.
Conversion to High Flow Access Licence	Not permitted.

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Water Sharing Rules

Wywandy River Management Zone

Water Sharing Plan	
Plan	Greater Metropolitan Region Unregulated Water Sources
Plan Commencement Date	1 July 2011
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the management zone.
Boundary Definition	
Includes the hydrological catchment of the Coxs River to the Lake Lyell exclusion zone 200 metres downstream of the wall of Lake Lyell Dam.	

Rules Summary
The following rules are a guide only. For more information about your actual license conditions, please contact the NSW Office of Water in Penrith, phone 4729 8122.

Access Rules	
A class	Users must cease to pump when flows are at or less than 2 ML/day.
B class	Users must cease to pump when flows are at or less than 6 ML/day.
C class	Users must cease to pump when flows are at or less than 14 ML/day.
Commence to pump – A class only	Users may commence to when flows are greater than 4 ML/day.

Daily flow sharing	<p>From year six of the plan daily flow sharing will be introduced for A, B and C Class. The total daily extraction limit is set at 4 ML/day for A class, 8 ML/day for B class and 15 ML/day for C class. This is the volume of water which is available for sharing between licensed extractors.</p> <p>Initial assessment of these volumes to different categories of access licences in A class is as follows:</p> <ul style="list-style-type: none"> • 0.01 ML/day to domestic and stock access licenses • 3.99 ML/day to unregulated river access licenses. <p>Initial assessment of these volumes to different categories of access licences in B class is as follows:</p> <ul style="list-style-type: none"> • 0.01 ML/day to domestic and stock access licenses • 4.99 ML/day to unregulated river access licenses. <p>Initial assessment of these volumes to different categories of access licences in C class is as follows:</p> <ul style="list-style-type: none"> • 0.01 ML/day to domestic and stock access licenses • 9.99 ML/day to unregulated river access licenses. <p>Unassigned water in B class of 3 ML/day and in C class of 5 ML/day may be assigned as a result of a new licence application or a variation to an existing local water utility access licence.</p>
Reference point	Coxs River at Wallerawang Power Station (flow gauge 212054).

Trading rules	
INTO management zone	Not permitted.
WITHIN management zone	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Not permitted.

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