



# North East Water Determination

1 July 2018 – 30 June 2026

19 June 2018



**An appropriate citation for this paper is:**

Essential Services Commission 2018, North East Water Determination: 1 July 2018 – 30 June 2026, 19 June

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# Contents

1. General	1
1.1. Introduction	1
1.2. Application	1
1.3. Effective period	2
1.4. Modification of time periods	2
1.5. Summary and structure	2
1.6. Definitions and interpretation	3
1.7. Annexure	3
2. Price control	4
2.1. General principles	4
2.2. Ancillary matters	4
2.3. Annual adjustment of prices	5
2.4. Price changes during a billing period	7
2.5. Reporting requirements	7
3. Amendment of Schedule 2	9
4. Uncertain or unforeseen events	12
4.1. General principle	12
4.2. Consideration by the commission	12
4.3. Procedure	14
5. Material error and unintended consequences	15
<b>Schedule 1 – Definitions and interpretation</b>	<b>16</b>
A Definitions	16
B Interpretation	17
<b>Schedule 2 – Prices</b>	<b>18</b>
<b>Schedule 3 – Application of prices</b>	<b>26</b>
3.1 Trade waste discharge limits	26
3.2 Vacant land charges	26
3.3 Miscellaneous fees and charges	26
<b>Schedule 4 – Pricing principles</b>	<b>28</b>
4.1 Recycled water pricing principles	28
4.2 Pricing principles where scheduled prices do not apply	28
4.3 Pricing principles for New Customer Contributions (NCC)	29
Core pricing principles	29

Incremental financing costs	29
Gifted Assets	30
4.4 Pricing principles for miscellaneous services not included in Schedule 2	30
4.5 Guidelines	30
<b>Schedule 5 – Adjustment for costs associated with annual updates to the trailing average cost of debt</b>	<b>31</b>
Schedule 5A – Adjustments to prices	31
Schedule 5B – Prices	31
Formula 1: Determining the nominal cost of debt	32
Formula 2: Determining the real cost of debt	32
Formula 3: Determining the real regulatory rate of return	32
Formula 4: Trailing average cost of debt adjustment	32
Formula 5: Schedule 5A tariffs	34
<b>Annexure A</b>	<b>36</b>

# 1. General

## 1.1. Introduction

- (a) Clause 14 of the **WIRO** requires the commission to either:
- (i) approve the maximum prices the **regulated entity** may charge for **prescribed services** or the manner in which the **regulated entity's** prices are to be calculated, determined or otherwise regulated, as proposed by the **regulated entity** in its **price submission**; or
  - (ii) specify the maximum prices the **regulated entity** may charge for **prescribed services** or the manner in which the **regulated entity's** prices are to be calculated, determined or otherwise regulated.
- (b) On 13 June 2018, the commission made its decision under the **WIRO** in respect of:
- (i) the prices which North East Region Water Corporation (trading as North East Water) (ABN 97 364 605 415) (**North East Water**) may charge for **prescribed services** during the **regulatory period**; and
  - (ii) the standards and conditions of service and supply which **North East Water** has included in its **price submission**.
- (c) This Determination is made by the commission under section 33 of the **ESC Act**, pursuant to clauses 10 and 14 of the **WIRO**.
- (d) The purpose and reasons for the making of this Determination are to:
- (i) give effect to the decision of the commission referred to in clause 1.1(b)(i);
  - (ii) specify the maximum prices which **North East Water** may charge for **prescribed services** during the **regulatory period** or the manner in which such prices are to be calculated, determined or otherwise regulated;
  - (iii) facilitate the achievement of the commission's objectives in the **ESC Act** and the **WI Act**; and
  - (iv) reflect the requirements in the **WIRO**.
- (e) The reasons for the making of this Determination are as set out in the decision published by the commission on 19 June 2018.

## 1.2. Application

This Determination applies to **North East Water** and its successors and assigns in respect of the business carried on by **North East Water** at the date of this Determination.

### 1.3. Effective period

(a) **Term**

This Determination takes effect on the later of the date on which notice of its making is published in the Government Gazette or 1 July 2018, subject to clause 1.3(b), has effect until the earlier of the date on which it is amended or revoked by a later determination or 30 June 2026.

(b) **Next regulatory period**

Subject to clause 2.3(b)(ii), if the commission has not made a determination in respect of the prices to apply in the **next regulatory period** on or before 30 June 2026, the prices or the manner in which such prices are to be calculated or otherwise determined as set out in this Determination will continue to apply in respect of **prescribed services** provided by **North East Water** between 1 July 2026 and the date on which the determination for the **next regulatory period** comes into effect.

(c) There will be a mid-period review in 2022. In this review, the ESC will decide whether North East Water continues to operate under this Determination until to 30 June 2026, or whether this Determination will end. In conducting its review, the ESC will have regard to matters such as performance against outcomes and targets, financial viability, and whether conditions under which prices have been determined have changed sufficiently to warrant a reconsideration of prices.

(d) If the ESC decides that this Determination will end, North East Water will need to submit a new price submission in relation to proposed prices that would take effect after year five (that is, from 1 July 2023).

### 1.4. Modification of time periods

The commission may, by notice to **North East Water**, extend or reduce the time by which, or the period within which, **North East Water** or the commission must comply with an obligation under this Determination.

### 1.5. Summary and structure

Clause 2 of this Determination specifies the prices which will apply to **prescribed services** during the **regulatory period** and sets out the procedure and formula according to which prices may be adjusted during the **regulatory period** on an annual basis. Clauses 3, 4 and 5 provide for the circumstances in which prices may be adjusted during the **regulatory period** otherwise than in accordance with clause 2.

## 1.6. Definitions and interpretation

In this Determination, unless the contrary intention appears:

- (a) words and phrases in bold italics have the meanings given to them in part A of Schedule 1; and
- (b) the rules of interpretation in part B of Schedule 1 will apply.

## 1.7. Annexure

- (a) For convenience, Annexure A to this Determination summarises:
  - (i) the assumptions underpinning the prices to apply to ***North East Water*** during the ***regulatory period*** or the manner in which such prices are to be calculated, determined or otherwise regulated; and
  - (ii) the standards and conditions of services and supply additional to those specified in the ***Code*** which will be provided by ***North East Water*** pursuant to the decision referred to in clause 1.1(b)(ii).
- (b) For the avoidance of doubt, Annexure A does not form part of this Determination.

## 2. Price control

### 2.1. General principles

Subject to this Determination:

#### (a) Scheduled prices

**North East Water** must not charge more than:

- (i) the scheduled prices in Schedule 2, during the first **regulatory year**, and
- (ii) the amounts determined in accordance with clause 2.3, during each subsequent **regulatory year**,

in respect of those prescribed services to which the scheduled prices in Schedule 2 relate.

#### (b) Application principles

The application principles in Schedule 3 will apply to the prices charged by **North East Water** in respect of **prescribed services** during the **regulatory period**.

#### (c) Pricing principles

During the **regulatory period**, **North East Water** must apply the pricing principles in Schedule 4 when determining the prices to apply to the **prescribed services** to which the pricing principles in Schedule 4 relate.

### 2.2. Ancillary matters

#### (a) Contracts

Where **North East Water** has entered into a contract (a **relevant contract**) which relates to the provision of **prescribed services** prior to 1 July 2018, **North East Water** may charge the prices for **prescribed services** which are set out in that **relevant contract** until its expiration, termination or a periodic review of the prices set out in the contract. Once a **relevant contract** has expired or been terminated or the prices in a **relevant contract** have been subject to a periodic review, the scheduled prices in Schedule 2 (as adjusted in accordance with this Determination) or the prices determined in accordance with the pricing principles in Schedule 4 will apply for the remainder of the **regulatory period**.

#### (b) Dispute Resolution

Any question as to whether a price has been set in accordance with this Determination will be determined by the commission on the basis of the commission's interpretation of this Determination.



(c) **Publication**

**North East Water** must publish a list of its current prices and pricing principles for **prescribed services**, and all relevant supporting information that is relied upon to apply the prices or pricing principles, on its website at all times during the **regulatory period** and must provide a written copy of the list to its customers on request. The list must clearly indicate in respect of each price, the amount determined in accordance with this Determination, the amount of GST payable and the total price (in a manner consistent with the requirements of the *Competition and Consumer Act 2010* (Cth)).

(d) **GST**

**North East Water** will not be considered to be in contravention of this Determination if a price charged by it for a **prescribed service** exceeds the amount determined in accordance with clause 2 only by reason of the levying of a charge on account of **GST**.

## 2.3. Annual adjustment of prices

(a) **Adjustment**

(i) Subject to Schedule 2 and Schedule 5, the scheduled prices in Schedule 2 will be adjusted in each subsequent **regulatory year** in the **regulatory period** in accordance with the formula in clause 2.3(b)(i) and the procedure in clause 2.3(c), and will apply to the **prescribed services** to which the scheduled prices in Schedule 2 relate in that **regulatory year**.

(b) **Formula**

(i) Subject to Schedule 2 and Schedule 5, each price for the **prescribed services** referred to in clause 2.3(a) will be adjusted in accordance with the following formula with effect from the beginning of each subsequent **regulatory year** in the **regulatory period**:

$$p_t = p_{t-1} \times \frac{CPI_t}{CPI_{t-1}} \times (1 + PPM_t)$$

where:

$p_t$  is the price component for **regulatory year** 't'

$p_{t-1}$  is the price component for **regulatory year** 't-1'

$\frac{CPI_t}{CPI_{t-1}}$  for the particular **regulatory year** is:  
the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics for the March quarter immediately preceding the start of the relevant **regulatory year**

divided by

the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics for the March quarter immediately preceding the March quarter referred to above

$PPM_t$  is the prescribed price movement for the price component for **regulatory year** t determined in accordance with Schedule 2.

- (ii) If the commission has not made a determination in respect of the prices to apply in the **next regulatory period** on or before 30 June 2026,  $PPM_t$  will be set equal to zero for the purpose of adjusting prices in accordance with the formula in clause 2.3(b)(i) for **regulatory years** commencing on or after 1 July 2026 until the date on which this determination is amended or revoked by a later determination.

**(c) Adjustment procedure**

- (i) At least 30 **business days** prior to the commencement of each subsequent **regulatory year** in the **regulatory period**, **North East Water** must submit its proposed prices for the **prescribed services** referred to in clause 2.3(a) to apply in that subsequent **regulatory year** (the **revised scheduled prices**) to the commission for approval, together with sufficient information to enable the commission to assess whether the proposed prices comply with this Determination.
- (ii) The commission will approve the **revised scheduled prices** if it considers that they have been calculated in accordance with the formula set out in clause 2.3(b)(i).
- (iii) The commission will be deemed to have approved the **revised scheduled prices** if it has not provided notice under clause 2.3(c)(iv) to **North East Water** within 20 **business days** from the date of its receipt of the **revised scheduled prices**.
- (iv) If the commission does not approve the **revised scheduled prices**, the commission:

- (A) will provide notice to **North East Water** (including a statement of its reasons);
- (B) may request **North East Water** to provide any additional information specified by the commission;
- (C) will take any additional information provided by **North East Water** into account; and
- (D) will determine the **revised scheduled prices**.

## 2.4. Price changes during a billing period

### (a) Application of this clause

This clause 2.4 applies where **North East Water** issues an invoice in respect of a billing period during which a change to any price for a **prescribed service** comes into effect in accordance with this Determination.

### (b) Method of charging

**North East Water** must not charge the prices determined in accordance with this Determination in respect of any part of a billing period prior to the effective date of the change, but may charge for **prescribed services** in respect of the periods before and after the effective date of the change at the prices applicable for each of those periods on a pro-rata basis.

## 2.5. Reporting requirements

- (a) **North East Water** must make available to the commission all information reasonably requested by the commission from time to time for the purpose of enabling it to confirm that **North East Water** is complying with this Determination.
- (b) Without limiting clause 2.5(a), if, during the **regulatory period**, **North East Water** enters into a **new contract** which relates to the provision of a **prescribed service** to which the pricing principles in Schedule 4 relate, **North East Water** must, within 30 **business days** of the date of the **new contract**, on request provide the commission with a notice specifying:
  - (i) details of the **new contract**; and
  - (ii) information which demonstrates the way in which the prices in the **new contract** reflect the relevant pricing principles.

- (c) Without limiting clause 2.5(a), if **North East Water** proposes to stop providing a **prescribed service** or refuses to provide a **prescribed service** to a customer, or potential customer, during the **regulatory period**, it must:
- (i) in the case of a proposal to stop providing a **prescribed service**, provide a notice to the commission stating the nature of the **prescribed service** which it proposes to stop providing and the reason why it proposes to stop providing the **prescribed service**. This notice must be provided at least 30 **business days** prior to the date upon which **North East Water** proposes to stop providing the **prescribed service**; and
  - (ii) in the case of a refusal to provide a **prescribed service** to a customer, or potential customer, **North East Water** must provide a notice to the commission within 5 **business days** of the refusal, stating the nature of the **prescribed service** and the reason for the refusal.

## 3. Amendment of Schedule 2

### (a) Amendment

- (i) **North East Water** may apply to the commission in accordance with this clause 3 and Schedule 5 for the amendment of the prescribed price movements and/or price components included in Schedule 2 for the following **regulatory year** (the **relevant regulatory year**) and all subsequent **regulatory years** remaining in the **regulatory period** (the **revised tariff schedule**).
- (ii) The average price movement for the **relevant regulatory year** and for each subsequent **regulatory year** in the **regulatory period** determined in accordance with the **revised tariff schedule** must not exceed the weighted average price movement that would otherwise have applied under this Determination as calculated in accordance with the following formula.

$$\frac{\sum_{i=1}^n \sum_{j=1}^m p_t^{ij} q_{t-2}^{ij}}{\sum_{i=1}^n \sum_{j=1}^m p_{t-1}^{ij} q_{t-2}^{ij}} \geq \frac{\sum_{i=1}^n \sum_{j=1}^m ap_t^{ij} q_{t-2}^{ij}}{\sum_{i=1}^n \sum_{j=1}^m p_{t-1}^{ij} q_{t-2}^{ij}}, i = 1, \dots, n; j = 1 \dots m$$

where **North East Water** has  $n$  tariff categories, which each have up to  $m$  tariff components, and where, for each **regulatory year**  $t$  for which the calculation is undertaken:

$p_{t-1}^{ij}$  is the tariff charged in **regulatory year**  $t-1$  for component  $j$  of tariff  $i$

$p_t^{ij}$  is the proposed tariff for component  $j$  of tariff  $i$  determined in accordance with Schedule 2 where the **revised tariff schedule** is not applied

$ap_t^{ij}$  is the proposed tariff for component  $j$  of tariff  $i$  determined in accordance with Schedule 2 where the **revised tariff schedule** is applied

$q_{t-2}^{ij}$  is the quantity of component  $j$  of tariff  $i$  that was sold in **regulatory year**  $t-2$ , or, if an actual quantity is not available, either an estimate of the quantity of component  $j$  of tariff  $i$  that would have been sold in **regulatory year**  $t-2$  or a forecast of the quantity of component  $j$  of tariff  $i$  that is expected to be sold in **regulatory year**  $t-2$

**(b) Amendment procedure**

- (i) An application by **North East Water** under this clause 3 must be received by the commission at least 80 **business days** prior to the commencement of the **relevant regulatory year** and must be accompanied by the following information:
- (A) (1) a clearly articulated new tariff strategy that is consistent with clause 11 of the **WIRO** (the **revised tariff strategy**); or
  - (2) an explanation of how the **revised tariff schedule** is consistent with the tariff strategy for **North East Water** approved by the commission in connection with this Determination, (**the relevant tariff strategy**);
  - (B) a **revised tariff schedule** that specifies proposed prices for the **relevant regulatory year** and prescribed price movements for each subsequent **regulatory year** in the **regulatory period** that is consistent with the **relevant tariff strategy**;
  - (C) a statement setting out evidence demonstrating that **North East Water** has provided information to its customers explaining the **revised tariff schedule** and how it relates to the **relevant tariff strategy** and has consulted effectively with its customers on the **revised tariff strategy** (if clause 3(b)(i)(A)(1) applies) and the **revised tariff schedule**;
  - (D) a statement setting out the customer impacts resulting from the **revised tariff schedule** and actions proposed by **North East Water** to address these customer impacts; and
  - (E) an explanation of the calculation of the relevant quantities " $q_{t-2}^{ij}$ ".
- (ii) The commission may approve the **revised tariff schedule** submitted by **North East Water** under this clause 3 if it is satisfied that:
- (A) **North East Water** has complied with clause 3(b)(i)(A);
  - (B) the price movements calculated in accordance with the **revised tariff schedule** comply with clause 3(a)(ii);
  - (C) the **revised tariff schedule** is consistent with the **relevant tariff strategy**;
  - (D) **North East Water** has consulted effectively with its customers on the **revised tariff strategy** (if clause 3(b)(i)(A)(1) applies) and the **revised tariff schedule**;
  - (E) **North East Water** has effectively addressed customer impacts resulting from the **revised tariff schedule**; and
  - (F) the basis for calculating the relevant quantities " $q_{t-2}^{ij}$ " is reasonable.

- (iii) In determining whether it will approve the **revised tariff schedule**, the commission may request **North East Water** to provide any additional information specified by the commission and/or to resubmit any of the matters in clause 3(b)(i)(A)-(E).
- (iv) The commission will be deemed to have not approved a **revised tariff schedule** if it has not provided notice to **North East Water** within 40 **business days** from the date of its receipt of **North East Water's** application under this clause 3.
- (v) An approved **revised tariff schedule** will be taken to amend Schedule 2 to the extent of any inconsistency.

## 4. Uncertain or unforeseen events

### 4.1. General principle

- (a) **North East Water** may apply to the commission for the amendment of this Determination and/or the adjustment of the scheduled prices in Schedule 2 to reflect increased or decreased costs incurred by **North East Water** and/or increased or decreased revenue received by **North East Water** as a result of events which were uncertain or unforeseen at the time this Determination was made (an **uncertain events application**).
- (b) Whether or not **North East Water** makes an application under clause 4.1(a), **North East Water** must promptly notify the commission upon becoming aware of an event which could form part or all of the basis of an application.
- (c) The commission may take action under clause 4.3(b) in respect of an **uncertain events application** where the commission is satisfied that such action is necessary or desirable to take account of events that were uncertain or unforeseen at the time of making this Determination provided that the commission is satisfied that such action takes into account the interests of customers. Generally the matters taken into account will include positive and negative influences on revenue and expenditure. The Commission may limit an adjustment to only some events or a single event.

### 4.2. Consideration by the commission

#### (a) Examples of uncertain and unforeseen events

The matters that may, at the discretion of the commission, be taken into account by the commission under this clause 4 include:

- (i) actual licence fees or contributions payable by **North East Water** during a particular **regulatory year** during the **regulatory period** under section 51 of the *Safe Drinking Water Act 2003* (Vic), section 24 of the *Environment Protection Act 1970* (Vic) and section 4H(2) of the **WI Act** which differ from the forecast licence fees or contributions set out in Annexure A for that **regulatory year**;
- (ii) changes in the timing or scope of expenditure by **North East Water** on major capital projects;
- (iii) instances where the commission is satisfied that there is a material difference between the forecast demand levels set out in Annexure A and



actual demand levels for **North East Water** in one or more **regulatory years** during the **regulatory period**;

- (iv) amounts payable by **North East Water** for purchases of bulk water during a particular **regulatory year** during the **regulatory period** which differ from the forecast bulk water payments set out in annexure A for that **regulatory year**; and
- (v) a change in or to any of the following:
  - (A) the **WI Act**, the *Water Act 1989* (Vic), the *Safe Drinking Water Act 2003* (Vic), the *State Owned Enterprises Act 1992* (Vic) and the *Environment Protection Act 1970* (Vic);
  - (B) any licence issued pursuant to any of the Acts referred to in clause 4.2(a)(iv)(A);
  - (C) a **relevant tax**; or
  - (D) the Statement of Obligations; or
  - (E) the introduction or cessation of a statutory carbon price or tax or a national emissions trading scheme or other scheme relating to the reduction of greenhouse gas emissions.

**(b) Exclusions**

In considering an **uncertain events application**, the commission will not take into account matters that:

- (i) are or should be within **North East Water's** control;
- (ii) were or should have been known by **North East Water** at the time the Determination was made;
- (iii) could reasonably have been foreseen by **North East Water**;
- (iv) should be or should have been planned for or managed by **North East Water**; and/or
- (v) reflect inefficient expenditure by **North East Water**.

**(c) Dispute resolution**

Any question as to whether a matter should be taken into account by the commission under this clause 4 will be determined by the commission in its absolute discretion.

## 4.3. Procedure

### (a) Application process

- (i) An **uncertain events application** must be accompanied by a statement setting out:
  - (A) the details of each relevant uncertain or unforeseen event;
  - (B) the amount and timing of any increase or decrease in operating and/or capital expenditure associated with the relevant event during the **regulatory period** and/or the amount and timing of any increase or decrease in revenue associated with the relevant event during the **regulatory period**;
  - (C) the basis for calculating the increase or decrease in operating and/or capital expenditure and/or revenue referred to in clause 4.3(a)(i)(B); and
  - (D) details of the proposed action to be taken by the commission under clause 4.3(b).
- (ii) The commission may identify an event or events which it considers has had or may have a material impact on **North East Water's** operating and/or capital expenditure and/or revenue and may decide to take action under clause 4.3(b) in the absence of an **uncertain events application** by **North East Water**.
- (iii) The commission may request **North East Water** to provide any additional information specified by the commission in connection with an **uncertain events application**.

### (b) Action by the commission

If the commission is satisfied of the matters set out in clause 4.1(c) in respect of an **uncertain events application** or an event identified by the commission under clause 4.3(a)(ii), the commission may, in its absolute discretion:

- (i) amend this Determination or adjust the scheduled prices in Schedule 2 and/or the revenue requirements in Annexure A with effect from a date and in a manner decided by the commission (in respect of one or more events) at a time decided by the commission; or
- (ii) take the **uncertain events application** into account in making its determination in respect of the prices which **North East Water** may charge for **prescribed services** in the **next regulatory period**.

## 5. Material error and unintended consequences

Where the commission is satisfied that in any material respect:

- (a) this Determination or any information relied upon in the making of this Determination contains an error, deficiency or miscalculation;
- (b) any information on which this Determination was based was false or misleading in a material respect; or
- (c) such amendment or adjustment is necessary or desirable to avoid an unintended consequence of this Determination,

the commission may decide to amend this Determination and/or specify a price adjustment, provided that it is satisfied that such amendment and/or price adjustment takes into account the interests of customers.

In most cases, an amendment will be undertaken in accordance with the commission's standard consultation process for price determinations, including the issue of a draft decision and an invitation for interested parties to make submissions to the commission in relation to the draft decision, as set out in clause 16(a) and (b) of the WIRO.

In some limited circumstances, the commission may amend this Determination without further consultation, or with only limited consultation. This will be the case where an amendment is not sufficiently material to warrant a full consultation process, or where there is urgency that justifies the commission moving quickly, as set out in clause 16(c) of the WIRO. In these circumstances, the commission will provide its reasons for proceeding with the amendment without consultation (or with a modified consultation process).

# Schedule 1 – Definitions and interpretation

## A Definitions

**business day** means a day on which banks are open for general banking business in Melbourne, not being a Saturday or a Sunday.

**Code** means the applicable *Customer Service Code* made under the **WI Act**.

**ESC Act** means the *Essential Services Commission Act 2001* (Vic).

**GST** has the meaning given in section 195-1 of the *A New Tax System (Goods and Services) Tax Act 1999* (Cth).

**miscellaneous services** means services that are provided in direct connection with **prescribed services**, prices in respect of which are either included in Schedule 2 or determined in accordance with the relevant pricing principles in Schedule 4.

**new contract** means any contract for **prescribed services** which is renewed, renegotiated or entered into during the **regulatory period**.

**next regulatory period** means the period commencing on 1 July 2026 and ending on a date specified by the commission.

**prescribed services** has the meaning given in the **WIRO** and includes **miscellaneous services**.

**price submission** has the meaning given in the **WIRO**.

**regulated entity** has the meaning given in the **WIRO**.

**regulatory period** means the period commencing on 1 July 2018 and ending on 30 June 2026.

**regulatory year** means each period of twelve months commencing on 1 July and ending on 30 June.

**relevant contract** means a contract which relates to the provision of **prescribed services**.

**relevant tax** means any tax imposed by or payable directly or indirectly to any government or public authority in the Commonwealth of Australia (including **GST**) but excluding:

- (a) the licence fees referred to in clause 4.2 of this Determination;
- (b) penalties and interest for late payment of any tax; or
- (c) any tax that replaces any of the taxes referred to in (a) and (b), where tax includes any rate, duty, charge or other like or analogous impost.

**WI Act** means the *Water Industry Act 1994* (Vic).

**WIRO** means the Water Industry Regulatory Order 2014 as at the date of this Determination.

## B Interpretation

Headings are for convenience only and do not affect interpretation. The following rules apply unless the context requires otherwise.

- (a) The singular includes the plural, and the converse also applies.
- (b) If a word or phrase is defined, its other grammatical forms have a corresponding meaning.
- (c) A reference to a person includes a corporation, trust, partnership, unincorporated body or other entity, whether or not it comprises a separate legal entity.
- (d) A reference to a clause or schedule is a reference to a clause of or schedule to this document.
- (e) A reference to a determination, agreement or document (including a reference to this document) is to the agreement or document as amended, supplemented, novated or replaced, except to the extent prohibited by this document or that other agreement or document.
- (f) A reference to an Act, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them.
- (g) If a period of time is specified and commences on a given day or on a day of an act or event, the period of time is to be calculated inclusive of that day.
- (h) Any “notice” to be given or matter to be “notified” must be in writing.
- (i) The symbol ‘ $\Sigma$ ’ requires a summation to be performed over the range of variables specified in respect of the algebraic terms specified.
- (j) All data which is utilised in calculations made under this Determination will be utilised to the accuracy, in terms of the number of decimal places, to which it is given.
- (k) A fixed price, charge or fee determined in accordance with this Determination is to be rounded down and specified to two decimal places.
- (l) A volumetric price, charge or fee determined in accordance with this Determination is to be rounded down and specified to four decimal places.
- (m) When a calculation is required under this document:
  - (i) **regulatory year** ‘t’ is the **regulatory year** in respect of which the calculation is being made;
  - (ii) **regulatory year** ‘t-1’ is the **regulatory year** immediately preceding **regulatory year** ‘t’;
  - (iii) **regulatory year** ‘t-2’ is the **regulatory year** immediately preceding **regulatory year** ‘t-1’.

## Schedule 2 – Prices

This schedule should be read in conjunction with Schedule 3, Schedule 4 and Schedule 5. Variable water, wastewater and trade waste charges are rounded down to 4 decimal places. All other charges are rounded down to 2 decimal places.

Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
<b>2.1 Water – volumetric charges (per kL)</b>								
Water usage – all	2.2547	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Water usage - Major customers	0.8998	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
<b>2.2 Water – fixed service charges (per annum)</b>								
<b>Wangaratta, Yarrawonga, Benalla., Wodonga, Baranduda, Kiewa, Tangambalanga</b>								
20mm connection	207.12	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
25mm connection	324.37	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
32mm connection	532.31	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
40mm connection	832.48	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
50mm connection	1301.49	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
80mm connection	3333.98	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
100mm connection	5210.07	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
150mm connection	11724.30	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
200mm connection	20844.33	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%

Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
250mm connection	32569.96	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
300mm connection	46901.35	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
20mm connection – Eskdale*	310.65	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%

**Bright, Rutherglen, Wahgunyah, Beechworth, Myrtleford,  
Porepunkah**

20mm connection	227.83	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
25mm connection	356.82	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
32mm connection	585.54	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
40mm connection	915.75	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
50mm connection	1431.64	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
80mm connection	3667.37	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
100mm connection	5731.07	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
150mm connection	12896.75	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
200mm connection	22928.67	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
250mm connection	35826.81	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
300mm connection	51591.26	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%

**Barnawartha, Bundalong, Mt Beauty, Tawonga, Tawonga South,  
Chiltern, Tallangatta, Corryong, Yackandandah, Devenish, Oxley,  
Moyhu, Tungamah, Harrietville, Glenrowan, Springhurst, Dartmouth,  
St James, Goorambat, Whitfield, Walwa, Bellbridge**

20mm connection	248.54	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
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Schedule 2 – Prices

Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
25mm connection	389.22	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
32mm connection	638.77	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
40mm connection	999.02	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
50mm connection	1561.79	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
80mm connection	4000.75	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
100mm connection	6252.08	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
150mm connection	14069.10	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
200mm connection	25013.09	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
250mm connection	39083.79	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
300mm connection	56281.38	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%

### 2.3 Wastewater fixed service charges (per annum)

Wangaratta, Yarrawonga, Benalla, Wodonga, Baranduda	239.16	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Bright, Rutherglen, Wahgunyah, Beechworth, , Myrtleford, Porepunkah, Chiltern, Bundalong	286.96	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Mt Beauty, Tawonga, Tawonga South, Tallangatta, Corryong, Yackandandah, Bellbridge, Dartmouth, Barnawartha	334.81	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Milawa, Oxley Tungamah and Glenrowan, Moyhu	586.15	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Milawa, Oxley, Tungamah, Glenrowan and Moyhu (not connected)	293.08	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Walwa	442.65	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%



Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
<b>2.4 Trade Waste charges per unit (per kg)</b>								
Volume	1.4367	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Chemical Oxygen Demand	0.4104	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Suspended Solids	0.1111	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Total Kjeldahl Nitrogen	1.3394	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Total Phosphorus	16.2906	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
<b>2.5 Trade Waste charges when limit exceeded (per kg)</b>								
Total Dissolved Solids	0.1111	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Oil and Grease	0.1111	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Ammonia	0.1111	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Sodium	0.1111	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Total Oxidised Sulphur	0.7562	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
pH	154.4167	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
<b>2.6 Commercial Tradewaste Charges</b>								
Commercial Trade Waste Category 2	474.48	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Commercial Trade Waste Category 3	312.45	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
Commercial Trade Waste Category 4	147.35	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
<b>2.7 Customer contributions – water (per lot)</b>								
	825.01	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%

Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
<b>2.8 Customer contributions – wastewater (per lot)</b>	1924.95	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
<b>2.9 Core Miscellaneous fees and charges</b>								
Information statements	60.22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Special meter readings – tenants	30.11	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Septic disposal charge (per kL)	30.06	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Septic disposal charge – portable	24.10	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
North East Water wastewater connection – standard residential	193.05	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
North East Water wastewater connection – other	253.53	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Wastewater connection alterations	168.85	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>2.10 Non-core miscellaneous fees and charges</b>								
Replacement of galvanised iron property service pipe	Actual Cost							
Maximum charge	606.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Special meter readings – other	60.38	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water meter testing (per test)	308.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fire service charge (per lot)	95.12	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fire service information – Pressure Test	241.35	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Private fire service annual inspection fee	60.38	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Build over easement fee	66.34	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sealing fire hose taps (per tap)	61.19	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Standpipe water sales – admin charge	28.63	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
Standpipe water sales – Potable (per kL)	3.1807	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Standpipe water sales – Reuse (per kL)	1.5904	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Non potable water volumetric - all	1.8038	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dishonoured payment charge	Bank Charge							
Restriction charge – business hours	60.99	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Restriction charge – after hours	195.50	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Backflow prevention device application fee	168.85	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Backflow prevention device annual fee	72.25	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Test prior advice notice (mandatory fee)	Actual Cost							
Alter existing sewer asset fee	303.46	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Wastewater connection cut and seal	48.20	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Wastewater Plans re-examination	36.02	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 20mm service	72.40	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 25mm service	84.37	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 32mm service	96.45	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 40mm service	108.47	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 50mm service	120.55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 80mm service	482.80	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 100mm service	603.50	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 150mm service	724.15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee – 225mm service	844.80	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Schedule 2 – Prices

Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
Water tapping fee (Fire service) – 20mm service	72.40	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 25mm service	84.37	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 32mm service	96.45	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 40mm service	108.47	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 50mm service	120.55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 80mm service	120.55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 100mm service	120.55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 150mm service	120.55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water tapping fee (Fire service) – 225mm service	120.55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 20mm service	205.12	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 25mm service	362.05	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 32mm service	724.15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 40mm service	1025.93	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 50mm service	2414.01	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 80mm service	3138.06	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 100mm service	4043.24	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 150mm service	4345.12	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water connection fee – 225mm service	6940.36	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water disconnection fee – All services	120.55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Schedule 2 – Prices

Tariff and Price Component	Price (1 July 2018)	PPM Year 2	PPM Year 3	PPM Year 4	PPM Year 5	PPM Year 6	PPM Year 7	PPM Year 8
Water main connection fee - 100mm	710.75	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water main connection fee - 150mm	811.17	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water main connection fee - 200mm	909.30	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water main connection fee - 225mm	1006.42	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water main connection fee - 300mm	1108.06	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water main connection fee - 375mm	1207.46	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water main connection fee - 450mm	1306.82	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water main connection fee - 500mm	1406.02	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

\*Fixed charges for Eskdale are calculated on a 50% loading above the standard fixed charge rate. Any increase in meter size, for this system, will be charged on the same basis.

As set out in clause 1.1(d) of this Determination, the role of the Commission in making this Determination is limited to specifying the maximum prices that **North East Water** may charge for **prescribed services** during the **regulatory period**, or the manner in which such prices are to be calculated, determined or otherwise regulated.

It is the role of **North East Water** to apply a tariff in accordance with the **Water Act 1989 (Vic)**. The Commission does not have a role in hearing disputes about individual billing issues that users may have.

## Schedule 3 – Application of prices

### 3.1 Trade waste discharge limits

Trade waste discharge limits for Total Dissolved Solids, Oil and Grease, Ammonia, Sodium, Total Oxidised Sulphur and pH are agreed based on individual circumstances.

### 3.2 Vacant land charges

There are no vacant land charges except where services are established to new communities and fixed charges (for all connected lots) are incurred in order to ensure these small systems are viable.

### 3.3 Miscellaneous fees and charges

The following table sets out the definitions of the miscellaneous charges contained in Schedule 2.

Miscellaneous service	Definition
<b>Information statements</b>	Provides information on rates and encumbrances on the requested property, this is usually requested at the time of a property settlement or change in commercial lease.
<b>Special meter readings – tenants</b>	Incurred when the meter is required to be read when a tenant moves out of a property, outside of our scheduled meter reads.
<b>Septic disposal charge (per kL)</b>	Incurred on a per kL basis for receiving, treating and disposal of residential wastewater.
<b>Septic disposal charge - portable</b>	Incurred for receiving, treating and disposal of wastewater per portable toilet
<b>Wastewater connection - standard residential</b>	Cost associated with the connection of a single residence to the sewer reticulated network.
<b>Wastewater connection - other</b>	Cost associated with the connection of other residences to the sewer reticulated network, such as a block of units.
<b>Wastewater connection alterations</b>	Incurred as a result of changing a drainage plan on an existing residential dwelling.
<b>Water tapping fee - 20mm service</b>	This fee is charged for the physical connection of a 20mm pipe to our reticulated water network.

Miscellaneous service	Definition
<b>Water tapping fee - 25mm service</b>	This fee is charged for the physical connection of a 20mm pipe to our reticulated water network.

## Schedule 4 – Pricing principles

### 4.1 Recycled water pricing principles

Recycled water prices should be set so as to:

- have regard to the price of any substitutes and customers' willingness to pay;
- cover the full cost of providing the service (with the exception of services related to specified obligations or maintaining balance of supply and demand); and
- include a variable component.

Where **North East Water** does not propose to fully recover the costs associated with recycled water, it must demonstrate to the commission that:

- it has assessed the costs and benefits of pursuing the recycled water project;
- it has clearly identified the basis on which any revenue shortfall is to be recovered; and
- if the revenue shortfall is to be recovered from non-recycled water customers, either the project is required under the Statement of Obligations which applies to **North East Water** or pursuant to other government policies that apply to **North East Water** or there has been consultation with the affected customers about their willingness to pay for the benefits of increased recycling.

### 4.2 Pricing principles where scheduled prices do not apply

Where the prices set out in Schedule 2 do not apply because the nature of the service provided to a particular customer (including, in the case of trade waste customers, the volume or load of waste treated) is unique, prices must be set as follows:

- variable prices (including, in the case of trade waste customers, load-based charges) should reflect the long run marginal cost of providing services (including, in the case of trade waste customers, trade waste transfer, treatment and disposal);
- the total revenue received from each customer should be greater than the cost that would be avoided from ceasing to serve that customer, and (subject to meeting avoidable cost) less than the stand alone cost of providing the service to the customer in the most efficient manner;
- the methodology used to allocate common and fixed costs to that customer should be clearly articulated and be consistent with any guidance provided by the commission;
- prices should reflect reasonable assumptions regarding the customer's demand for services (including, in the case of trade waste customers, the volume and strength of trade waste anticipated to be produced by that customer);
- depreciation rates and rates of return used to determine prices should be consistent with those adopted by the commission for the purposes of making this Determination;



- customers should be provided with full details of the manner in which prices have been calculated and any new, renewed or renegotiated contractual agreements with customers should indicate that the prices to apply are subject to any Determination made by the commission;
- where applying these principles results in significant changes to prices or tariff structures, arrangements for phasing in the changes may be considered and any transitional arrangements should be clearly articulated.

### 4.3 Pricing principles for New Customer Contributions (NCC)

#### Core pricing principles

NCC, including standard or negotiated NCC, will be calculated by applying the following core NCC pricing principles.

Standard and negotiated NCC will:

- have regard to the incremental infrastructure and associated costs in one or more of the statutory cost categories attributable to a given connection;
- have regard to the incremental future revenues that will be earned from customers at that connection;
- be greater than the avoidable cost of that connection and less than the standalone cost of that connection.

Notes:

1. Given that NCC are to be based on the net incremental cost of connection (ie incremental costs net of incremental benefits), in this context, the costs referred to in the efficient pricing bound are the net costs, specifically the avoidable net cost of connection and standalone net cost of connection.
2. Where the connection arrangement requires assets to be gifted, the value of gifted assets will be excluded for the purpose of calculating net costs.
3. Incremental costs may include financing costs associated with constructing an asset sooner than planned.

#### Incremental financing costs

Incremental financing costs (IFC) should be calculated using this formula:

$$IFC = \left(1 - \left[\frac{1}{(1+r)^n}\right]\right) \times \text{cost of capital being provided sooner than planned}$$

where:

- r estimated pre-tax regulatory rate of return.
- n the number of years the asset is required sooner than planned.

## Gifted Assets

**North East Water** can require developers to provide and gift to **North East Water** specified assets as a condition of connection, provided that **North East Water**:

- makes clear to potential developers which assets a developer will be responsible for providing and gifting, and which will be provided by **North East Water**;
- confirms that negotiation of any non-standard connection and associated charges will be undertaken in accordance with **North East Water's** published negotiating framework; and
- the value of gifted assets will be excluded for the purposes of calculating net costs.

## 4.4 Pricing principles for miscellaneous services not included in Schedule 2

Prices for miscellaneous services must be set according to actual cost calculated on the basis of the aggregate of:

- direct third party or contractor invoice cost;
- direct marginal internal costs, including labour, materials and transport costs; and
- a fair contribution to overheads.

For bank dishonour, debt collection and legal fees, the third party costs must be charged directly to the customer with no contribution for internal costs or a contribution to overheads.

## 4.5 Guidelines

**North East Water** must comply with any guidelines issued by the commission from time to time which relate to the setting of prices for **prescribed services** to which Schedule 4 relates.

## Schedule 5 – Adjustment for costs associated with annual updates to the trailing average cost of debt

If in any **regulatory year** Condition A applies, the formula set out in clause 2.3(b) is not applicable to the extent it relates to the prices outlined in Schedule 5A. These prices are set out in items 2.2 and 2.3 of Schedule 2.

Instead the prices above will be adjusted in accordance with the formulas (as applicable) provided below, with effect from the beginning of each subsequent **regulatory year** in the **regulatory period**.

**North East Water** must comply with any guidance issued by the commission from time to time which relate to the setting of prices for **prescribed services** to which Schedule 2 and 4 relates.

### Schedule 5A – Adjustments to prices

	Condition A (Annual cost of debt update)
2.2 Water fixed service charges	X
2.3 Wastewater fixed service charges	X

### Schedule 5B – Prices

#### Condition A – Annual cost of debt update

Condition A will apply when the trailing average cost of debt in any **regulatory year** 't' changes in that year. The adjustment is calculated as per formula 4.

The difference in the forecast and actual regulatory rate of return in any **regulatory year** 't' is multiplied by the average of the regulatory asset base (RAB) to determine the change in **North East Water's** total expected return. The RAB is set out in Table 5 of Annexure A.

The trailing average cost of debt adjustment will be apportioned across the tariffs listed in Schedule 5A.

### Formula 1: Determining the nominal cost of debt

$$CoD_t^{nominal} = \sum_{i=t-10}^{t-1} \frac{CoD_i^{nominal}}{10}$$

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$CoD_t^{nominal}$	<p>Is equal to the simple average of the 10 years up to (but not inclusive of) <b>regulatory year</b> 't' of:</p> <ul style="list-style-type: none"> <li>- The data series outlined in Table 1 of Annexure A</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>- RBA Table F3 – Non-financial corporate BBB-rated bonds – Yield – 10 year target tenor [Series ID FNFYBBB10M]</li> </ul> <p>from 1 April to 31 March before the start of <b>regulatory year</b> 't' (e.g. 1 April 2017 to 31 March 2018 in relation to 2018-19)</p>
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### Formula 2: Determining the real cost of debt

$$CoD_t^{real} = \frac{(1 + CoD_t^{nominal})}{(1 + \pi^{det})} - 1$$

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$\pi^{det}$	Is the inflation factor which is equal to 2.3% for all regulatory years
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Formula 2 outlines the process for converting the trailing average cost of debt from nominal to real using the Fisher equation.

### Formula 3: Determining the real regulatory rate of return

$$RRR_t^{real} = 0.4 \times CoE_t^{real} + 0.6 \times CoD_t^{real}$$

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$RRR_t^{real}$	Is the post-tax 'vanilla' regulatory rate of return in real terms for <b>regulatory year</b> 't' rounded to two decimal places, i.e. 4.347% is rounded to 4.35%
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$CoE_t^{real}$	Is the real cost of equity determined through <b>North East Water</b> 's PREMO rating, which is equal to 4.1% for 2018-19 to 2022-23
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### Formula 4: Trailing average cost of debt adjustment

$$CDA_t^j = (RRR_t^{act} - RRR_t^{det}) \times \left( \frac{RAB_{opening,t}^{det} + RAB_{closing,t}^{det}}{2} \right) \times \frac{CPI_t}{CPI_{base}} \times \frac{\alpha_t^j \times q_{j,t}^{det}}{\sum_{j=1,n}^{t=t} (\alpha_t^j \times q_{j,t}^{det})} \times \frac{1}{q_{j,t}^{det}}$$

Schedule 5 – Adjustment for costs associated with annual updates to the trailing average cost of debt

$CDA_t^j$	Is the trailing average cost of debt adjustment applied proportionally to tariff j, based on tariff j's relative share of total revenues. Total revenues refer to the sum of all revenue received across the tariffs listed in Schedule 5A to which the cost of debt adjustment will apply
$RRR_t^{act}$	Is the actual calculated real post tax 'vanilla' regulatory rate of return in <b>regulatory year</b> 't'
$RRR_t^{det}$	Is the determination real post tax 'vanilla' regulatory rate of return in <b>regulatory year</b> 't'
$RAB_{opening,t}^{det}$	Is the determination opening regulatory asset base in <b>regulatory year</b> 't'
$RAB_{closing,t}^{det}$	Is the determination closing regulatory asset base in <b>regulatory year</b> 't'
$CPI_t$	Is the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics (6401.0 - Table 8) for the March Quarter immediately preceding the start of the relevant <b>regulatory year</b>
$CPI_{base}$	Is the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics (6401.0 - Table 8) for the March Quarter in year 2017 equal to 110.5
$\alpha_t^j$	Is the price for tariff j at <b>regulatory year</b> 't' before the cost of debt adjustment where: $\alpha_t^j = p_{t-1}^j \times \frac{CPI_t}{CPI_{t-1}} \times (1 + PPM_t^j)$
$p_{t-1}^j$	Is the price for tariff j in <b>regulatory year</b> 't-1'
$q_{j,t}^{det}$	Is the determination quantity for tariff j in <b>regulatory year</b> 't'
$\sum_{j=1,n}^{t=t} (\alpha_t^j \times q_{j,t}^{det})$	Is the sum of all revenue received across the tariffs listed in Schedule 5A to which the cost of debt adjustment will apply

Formula 4 outlines the process for calculating the adjustment to prices outlined in Schedule 5A to reflect the new cost of debt. This is done in two steps. The first step is to calculate the change in the revenue requirement by multiplying the adjustment to the rate of return, to reflect the updated cost of debt, by the average regulatory asset base.

Schedule 5 – Adjustment for costs associated with annual updates to the trailing average cost of debt

The second step is to apply the change in the revenue requirement proportionally to tariff j, based on tariff j's relative share of total revenues. Total revenues are defined as the sum of all revenues received across the tariffs listed in Schedule 5A to which the cost of debt adjustment will apply.

#### Formula 5: Schedule 5A tariffs

$$p_t^{j,COD} = p_{t-1}^j \times \frac{CPI_t}{CPI_{t-1}} \times (1 + PPM_t^j) + CDA_t^j$$

$p_t^{j,COD}$	Is the price for tariff j at <b>regulatory year</b> 't' that accounts for the cost of debt adjustment. The cost of debt adjustment will apply to the tariffs listed in Schedule 5A
$p_{t-1}^j$	Is the price for tariff j in <b>regulatory year</b> 't-1'
$CPI_t$	Is the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics (6401.0 - Table 8) for the March Quarter immediately preceding the start of the relevant <b>regulatory year</b>
$PPM_t^j$	The prescribed price movement for the price component for tariff j in <b>regulatory year</b> 't' as per the determination
$CDA_t^j$	Is the trailing average cost of debt adjustment applied proportionally to tariff j, based on tariff j's relative share of total revenues as outlined in formula 4. Total revenues refer to the sum of all revenue received across the tariffs listed in Schedule 5A to which the cost of debt adjustment will apply.

Schedule 5 – Adjustment for costs associated with annual updates to the trailing average cost of debt

**The Common Seal of the  
Essential Services  
Commission** was affixed to  
this Determination with the  
authority of the commission.



Date: 19 June, 2018

A handwritten signature in black ink, appearing to read "Ron Ben-David", written over a horizontal line.

**Dr Ron Ben-David**

**Chairperson**

## Annexure A

**Table 1** Historical cost of debt (nominal)

Per cent

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Cost of debt	6.92%	7.36%	7.05%	6.31%	5.27%	7.05%	5.36%	5.27%	4.91%	4.53%

**Table 2** Forecast real regulatory rate of return

Per cent

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Regulatory rate of return	3.81%	3.81%	3.81%	3.81%	3.81%	3.81%	3.81%	3.81%



**Table 3**      **Benchmark revenue requirement**  
 \$m 2017-18

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Operating expenditure	40.8	40.8	40.3	39.7	40.6	40.1	40.2	40.4
Return on assets*	11.0	11.3	11.7	12.2	12.5	12.6	12.7	12.7
Regulatory depreciation	9.3	9.4	9.7	10.1	10.6	10.7	10.7	10.8
Adjustments from last period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-prescribed revenue offset of revenue requirement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tax allowance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Notional revenue requirement</b>	<b>61.1</b>	<b>61.5</b>	<b>61.7</b>	<b>62.0</b>	<b>63.6</b>	<b>63.4</b>	<b>63.7</b>	<b>63.8</b>
Forgone revenue	-1.2	-0.9	-0.4	0.1	-0.9	0.1	0.6	1.2
<b>Final decision revenue requirement</b>	<b>59.9</b>	<b>60.6</b>	<b>61.3</b>	<b>62.0</b>	<b>62.8</b>	<b>63.5</b>	<b>64.3</b>	<b>65.0</b>

\* Includes a return on equity of 4.9 per cent, consistent with the maximum rate allowed for an 'Advanced' PREMO price submission rating

**Table 4 Updated regulatory asset base**  
\$m 2017-18

	2012-13	2013-14	2014-15	2015-16	2016-17
Opening RAB at 1 July	204.2	238.8	255.1	256.8	262.9
<i>Plus</i> Gross capital expenditure	47.3	28.5	13.3	17.1	13.6
<i>Less</i> Government contributions	0.0	1.2	1.4	0.2	0.1
<i>Less</i> Customer contributions	2.5	2.1	2.0	2.0	2.8
<i>Less</i> Proceeds from disposals	1.5	1.5	0.4	0.5	0.4
<i>Less</i> Regulatory depreciation	8.7	7.4	7.8	8.3	8.7
<b>Closing RAB at 30 June</b>	<b>238.8</b>	<b>255.1</b>	<b>256.8</b>	<b>262.9</b>	<b>264.5</b>

**Table 5 Rolled forward regulatory asset base**  
\$m 2017-18

	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Opening RAB at 1 July	264.5	264.5	269.1	278.1	288.5	301.5	304.7	307.1	308.2
<i>Plus</i> Gross capital expenditure	12.1	16.0	20.7	22.4	25.4	16.1	15.5	14.3	11.0
<i>Less</i> Government contributions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Less</i> Customer contributions	2.0	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.9
<i>Less</i> Proceeds from disposals	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<i>Less</i> Regulatory depreciation	9.5	9.3	9.4	9.7	10.1	10.6	10.7	10.7	10.8
<b>Closing RAB at 30 June</b>	<b>264.5</b>	<b>269.1</b>	<b>278.1</b>	<b>288.5</b>	<b>301.5</b>	<b>304.7</b>	<b>307.1</b>	<b>308.2</b>	<b>306.0</b>

**Table 6**      **Approved licence fee and environmental contribution assumptions**  
 \$m 2017-18

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Essential Services Commission licence fee	0.03	0.03	0.03	0.03	0.05	0.03	0.03	0.03
Department of Health and Human Services licence fee	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Environment Protection Authority licence fee	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Environmental contribution	2.48	2.42	2.37	2.31	2.26	2.26	2.26	2.26

**Table 7**      **Bulk water purchases**  
 \$m 2017-18

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Bulk water purchases	0.89	0.94	0.98	1.03	1.09	1.14	1.20	1.26

**Table 8 Demand forecast**

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
<b>Water assessments (no.)</b>								
Total	52,135	52,778	53,431	54,091	54,760	55,438	56,125	56,820
<b>Sewerage assessments (no.)</b>								
Total	46,762	47,404	48,058	48,724	49,404	50,097	50,803	51,524
<b>Billable water consumption (kL)</b>								
Residential	12,442	12,499	12,556	12,613	12,670	12,728	12,786	12,844
Non-residential	1,682	1,687	1,692	1,697	1,701	1,706	1,711	1,717
Total	14,124	14,186	14,247	14,309	14,372	14,434	14,497	14,561

**Table 9 Major capital projects**

Projects	Expected start date	Expected completion date
Beechworth wastewater system upgrade	2018-19	2019-20
Benalla water distribution upgrade	2019-20	2020-21
Wodonga wastewater treatment plant capacity & emissions reduction	2018-19	2021-22
Region-wide digital business sustainability	2018-19	2021-22
Wodonga sewerage transfer capacity	2019-20	2022-23
Wodonga wastewater treatment plant solar power	2018-19	2022-23
Wodonga wastewater treatment plant major upgrade	2020-21	2024-25
Benalla wastewater treatment plant upgrade	2023-24	2025-26
Wangaratta water distribution	2023-24	2025-26
Region-wide information and communications technology infrastructure	2018-19	2027-28

