

# Sydney Water Reporting Manual

# **Operating Licence 2015-2020**

Draft Reporting Manual Water

April 2018

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# **Tribunal Members**

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#### Amendment record

Issue No	Date issued	Change log
RM-SWC original	16 July 2010	First release
RM-SWC V2 Draft	7 May 2012	Review consultation
RM-SWC V2	12 June 2012	Second Release
RM-SWC V3	6 June 2013	Changes to performance indicators and reporting of opportunities for improvement
RM-SWC V4 Draft	9 February 2015	Draft for consultation as part of 5 year licence review
RM-SWC-V5	1 July 2015	Third release
RM-SWC-V6	1 July 2017	Fourth release - minor updates and clarifications
RM-SWC-V7	31 August 2017	Fifth release – minor updates
RM-SWC-V7 Draft	27 April 2018	Performance indicators amendments. Add statement of compliance template and licence data Appendices. Amended Drinking Water health and aesthetic water characteristics and raw water operational monitoring characteristics Appendix. Draft for consultation.

# Invitation for submissions

IPART invites written comment on this document and encourages all interested parties to provide submissions addressing the matters discussed.

#### Submissions are due by 24 May 2018

We would prefer to receive them electronically via our online submission form <www.ipart.nsw.gov.au/Home/Consumer\_Information/Lodge\_a\_submission>.

You can also send comments by mail to:

Water Utility Performance Indicators Review Independent Pricing and Regulatory Tribunal PO Box K35 Haymarket Post Shop NSW 1240

Late submissions may not be accepted at the discretion of the Tribunal. Our normal practice is to make submissions publicly available on our website <www.ipart.nsw.gov.au> as soon as possible after the closing date for submissions. If you wish to view copies of submissions but do not have access to the website, you can make alternative arrangements by telephoning one of the staff members listed on the previous page.

We may choose not to publish a submission - for example, if it contains confidential or commercially sensitive information. If your submission contains information that you do not wish to be publicly disclosed, please indicate this clearly at the time of making the submission. However, it could be disclosed under the *Government Information (Public Access) Act 2009* (NSW) or the *Independent Pricing and Regulatory Tribunal Act 1992* (NSW), or where otherwise required by law.

If you would like further information on making a submission, IPART's submission policy is available on our website.

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### 1 Introduction

The Independent Pricing and Regulatory Tribunal of New South Wales (IPART) is responsible for monitoring and reporting on Sydney Water Corporation's (Sydney Water) compliance with its Operating Licence (Licence).

#### 1.1 Purpose

The Licence contains a number of reporting obligations with which Sydney Water must comply. This Reporting Manual outlines all of Sydney Water's reporting requirements under the Licence and, with respect to those requirements, identifies when, what information and how Sydney Water is to report.

This Reporting Manual does not reproduce Sydney Water's obligations that are set out in the Licence. Therefore, it is necessary for Sydney Water to refer to the Licence and to any legislation, statutory instrument or document referred to in the Licence.

The Licence also contains a condition requiring Sydney Water to comply with any reporting obligations set out in this Reporting Manual. Therefore, Sydney Water must comply with any reporting requirements that are set out in this Reporting Manual, which are additional to those set out in the Licence.

### 1.2 Definitions and interpretation

Terms that are defined in the Licence have the same meaning in this Reporting Manual, unless the terms are separately defined in this Reporting Manual.

The interpretation provisions in the Licence apply to this Reporting Manual, with all references to the Licence in those provisions taken to be references to this Reporting Manual.

[Note: As at the Commencement Date, the interpretation provisions are contained in clause 12.2 of the Licence.]

#### **1.3 Structure of this Reporting Manual**

This Reporting Manual is structured as follows:

- Section 1 details how and when Sydney Water is to report
- Sections 2 to 8 outline the specific reporting requirements under each clause of the Licence, and
- Section 9 outlines other general reporting obligations with which Sydney Water must comply.

### 1.4 Changing this Reporting Manual

We may change this Reporting Manual at any time. In particular, we may change this Reporting Manual to:

- reflect changes in the applicable law, including the Act
- include additional reporting obligations where appropriate
- include references to new Licence obligations
- delete references to Licence obligations that no longer apply
- amend the information that Sydney Water must provide to IPART and to NSW Health (as the case may be), and
- improve the reporting process.

Before we change this Reporting Manual significantly, we will consult with Sydney Water and other interested stakeholders. We will then notify Sydney Water and stakeholders of the changes to this Reporting Manual and the start date for any new reporting arrangements. In determining the start date of significant changes, we will make sure there is enough time for Sydney Water to implement new arrangements.

### 1.5 When should the information be reported?

Sydney Water's reporting schedule is summarised in Table 1.1. We have grouped reporting requirements into:

- periodic (ie, monthly and quarterly) reporting
- annual reporting, and
- intermittent reporting.

Appendix A of this Reporting Manual provides a summary timeline for Sydney Water's reporting requirements under the Licence.

### 1.6 How should the information be reported?

### 1.6.1 Reporting to IPART

Sydney Water should report the required information to IPART in a clear and concise report. Where this Reporting Manual requires information on more than one area (eg, water quality and environment) at the same time, Sydney Water is encouraged to provide the information in a single report. However, Sydney Water may choose to report the information in separate reports.

Any report must be approved by Sydney Water's Managing Director.

Sydney Water must lodge each report electronically. If requested by IPART, Sydney Water must also submit a hard copy by mail. When lodging a report, Sydney Water must provide the name and contact details (phone and email) of the primary contact at Sydney Water with

whom IPART may liaise when assessing compliance and an alternative contact for those times when the primary contact is unavailable.

Electronic reports must be emailed to: compliance@ipart.nsw.gov.au

Hardcopy reports, if requested, must be sent to:

The Chief Executive Officer Independent Pricing and Regulatory Tribunal of New South Wales PO Box K35 Haymarket Post Shop NSW 1240

#### 1.6.2 Reporting to NSW Health

Sydney Water must provide reports to NSW Health as outlined in this Reporting Manual.

Sydney Water must lodge each report electronically. When lodging a report with NSW Health, Sydney Water must also provide the name and contact details (phone and email) of the primary contact at Sydney Water with whom NSW Health may liaise when assessing compliance, and an alternative contact for those times when the primary contact is unavailable.

Electronic reports must be emailed to: waterqual@doh.health.nsw.gov.au or to the last email address notified by NSW Health to Sydney Water.

Reporting schedule	Water quality Section 2 of Reporting Manual	Water Quantity Section 3 of Reporting Manual	Assets Section 4 of Reporting Manual	Customers and Consumers Section 5 of Reporting Manual	Environment Section 6 of Reporting Manual	Quality Management Section 7 of Reporting Manual	Performance Monitoring Section 8 of Reporting Manual
Periodic	Public report – Quarterly Water Quality Monitoring Report – Within 4 weeks following the end of the relevant quarter	None	None	None	None	None	None
	Monthly – Fluoride monitoring report - Within 2 weeks following the end of the relevant month						
	Quarterly – Report on monitoring of Drinking Water and Recycled Water - Within 6 weeks following the end of the relevant quarter						
Annual	Compliance and performance report – 1 September following the end of the relevant financial year (or by a later date agreed to by IPART)	Water Conservation Report – 1 September following the end of the relevant financial year (or by a later date agreed to by IPART)	Compliance and performance report – 1 September following the end of the relevant financial year (or by a later date agreed to by IPART)	None	Compliance and performance report – 1 October following the end of the relevant financial year (or by a later date agreed to by IPART)	Compliance and performance report – 1 September following the end of the relevant financial year (or by a later date agreed to by IPART)	Compliance and performance report (without environmental indicators) – 1 September following the end of the relevant financial year (or by a later date agreed to by IPART)

### Table 1.1Summary of Sydney Water's reporting requirements

Reporting schedule	Water quality Section 2 of Reporting Manual	Water Quantity Section 3 of Reporting Manual	Assets Section 4 of Reporting Manual	Customers and Consumers Section 5 of Reporting Manual	Environment Section 6 of Reporting Manual	Quality Management Section 7 of Reporting Manual	Performance Monitoring Section 8 of Reporting Manual
			Response time to breaks and leaks report – 1 September following the end of the relevant financial year (or by a later date agreed to by IPART)				Compliance and performance report (with environmental indicators) – 1 October following the end of the relevant financial year (or by a later date agreed to by IPART)
	Report on Audit recor	nmendations by 31 M	larch (or by another da	ate agreed to by IPAR	T) (Section 9.1 of Rep	orting Manual)	
Intermittent	Incident notification - Immediate	Report outlining approach and principles to developing the Methodology – 1 November 2015	State of the Assets report – 1 September 2015, 2017 and 2019 following the end of the relevant financial year (or by a later date agreed to by IPART)	None	Significant changes to the Environment Management System - Prior to implementing the changes]	Significant changes to the Quality Management System - Prior to implementing the changes	None
	Significant changes to Drinking Water and Recycled Water Quality Management Systems – Prior to implementing the changes		Significant changes to Asset Management Framework – Prior to implementing the changes				
	Report on review of public reporting with respect to water quality – By 31 December 2016		Significant changes to the Asset Management System – Prior to implementing the changes				

Reporting schedule	Water quality Section 2 of Reporting Manual	Water Quantity Section 3 of Reporting Manual	Assets Section 4 of Reporting Manual	Customers and Consumers Section 5 of Reporting Manual	Environment Section 6 of Reporting Manual	Quality Management Section 7 of Reporting Manual	Performance Monitoring Section 8 of Reporting Manual
		Significant changes to economic level of Water conservation methodology –Prior to implementing the changes					

### 2 Water quality

This section relates to Sydney Water's reporting obligations under clause 2 of the Licence.

### 2.1 Periodic reporting

#### 2.1.1 Public reporting

Sydney Water must prepare, for each quarter, a report (the **Quarterly Water Quality Monitoring Report**) on Sydney Water's performance against all health and aesthetic water characteristics and raw water operational characteristics identified in Appendix B.

Sydney Water must publish the Quarterly Water Quality Monitoring Report on its website within 4 weeks following the end of the relevant quarter.

The Quarterly Water Quality Monitoring Report must include:

- the details of the delivery system
- the number of samples in the period, and
- quarterly performance and rolling 12-month performance against health guideline values and aesthetic guideline values as per Appendix B. This does not apply to raw water operational monitoring characteristics (which may be compared with operational targets or guidelines (eg, cyanobacteria)).

[Note: Under clauses 2.1.1 and 2.1.2 of the Licence, Sydney Water must maintain and implement a Drinking Water Quality Management System, ie, a Management System that is consistent with the Australian Drinking Water Guidelines, except to the extent that NSW Health specifies otherwise. The Australian Drinking Water Guidelines provide a framework for the management of Drinking Water supplies (ie, Framework for Management of Drinking Water Quality). One of the central aspects of the framework is the use of monitoring to confirm the effectiveness of the preventive measures and barriers to contamination and to enhance Sydney Water's understanding of the performance of the Drinking Water network.

To comply with the Australian Drinking Water Guidelines, the Drinking Water Quality Management System must include a monitoring program. This section 2.1.1 requires Sydney Water to report on aspects of its monitoring of Drinking Water quality to Customers.]

### 2.1.2 NSW Health reporting

#### Monthly

Sydney Water must prepare, for each month, a report on Sydney Water's fluoride monitoring. Sydney Water must submit the report to NSW Health within 2 weeks following the end of the relevant month.

The report must contain, for the relevant month, the information required by the Code of Practice for Fluoridation of Public Water Supplies.

[Note: Sydney Water must report on its fluoride monitoring on the basis that: (a) its performance programs must comply with monitoring requirements in the Code of Practice for the Fluoridation of Public Water Supplies, and (b) NSW Health has specified (as it is authorised to do under clause 2.1.1 of the Licence) that the monitoring and reporting of fluoridation in the Drinking Water Quality Management System must be consistent with the Code of Practice for the Fluoridation of Public Water Supplies.]

### Quarterly

Sydney Water must prepare, for each quarter starting from 1 July, a report on Sydney Water's monitoring of Drinking Water and Recycled Water. Sydney Water must submit the report to NSW Health within 6 weeks following the end of the relevant quarter.

The report must include the following information for the relevant quarter:

- details of any monitoring test result that does not comply with:
  - the relevant health or aesthetic guideline value for each Drinking Water quality characteristic (each as specified in the monitoring program developed as part of the Drinking Water Quality Management System), and
  - the relevant health or aesthetic guideline value for each Recycled Water quality characteristic (each as specified in the monitoring program developed as part of the Recycled Water Quality Management System),

(each, an **Exception**), and

• the relevant critical control point breached and the action taken.

The details should include:

- test results and the date or period of non-compliance with the relevant health or aesthetic guideline values
- an appraisal of the Exception, including discussion of the extent and nature of the Exception and an analysis of the risks posed by the Exception, and
- an explanation of the causes of the Exception and any action taken to rectify the Exception and prevent it from re-occurring.

If there are no Exceptions in the quarter, the report should state that to be the case.

[Note: As explained in the note to section 2.1.1 above, Sydney Water must maintain and implement a Drinking Water Quality Management System in accordance with the Licence. Sydney Water must also maintain and implement a Recycled Water Quality Management System, being a Management System that is consistent with the Australian Guidelines for Water Recycling, in accordance with the Licence (clauses 2.2.1 and 2.2.2 of the Licence). The Australian Guidelines for Water Recycling provide a framework for good management of Recycled Water quality (ie, the Framework for Management of Recycled Water Quality and Use). To comply with the Licence, the Drinking Water Quality Management System and the Recycled Water Quality Management System (each, a Water Quality Management System) must each include a monitoring program. This section 2.1.2

requires Sydney Water to report on aspects of the quality of Drinking Water and Recycled Water under such monitoring programs.]

### 2.2 Annual Reporting

### 2.2.1 Compliance and performance reporting

Sydney Water must prepare, for each financial year, compliance and performance report on its management of the quality of Drinking Water and Recycled Water. Sydney Water must submit the compliance and performance report to IPART and NSW Health by **1 September** following the end of the relevant financial year, or at a later date agreed to by IPART.

The compliance and performance report must include:

- the Drinking Water and Recycled Water quality management activities and programs completed by Sydney Water in the financial year to meet its water quality objectives, including the results and outcomes from those activities and programs
- the Drinking Water and Recycled Water quality management activities and programs proposed to be undertaken by Sydney Water to meet its water quality objectives, including the expected outcomes, scope and timetable for completion
- an assessment of the performance of critical control points (as identified by the Water Quality Management Systems) over the long-term in accordance with the Australian Drinking Water Guidelines and the Australian Guidelines for Water Recycling (each, a Guideline) (as the case may be)
- an assessment of the review and continual improvement conducted over the previous 12-month period (as identified by the Water Quality Management Systems) in accordance with Element 12 of the relevant Guideline
- any proposed significant changes to a Water Quality Management System, and
- any non-compliance with a Water Quality Management System and the action/s taken to resolve those non-compliances.

[Note: As explained in the notes to section 2.1.1 and 2.1.2 above, Sydney Water is required, under the Licence, to maintain and implement the Water Quality Management Systems in accordance with the Licence. This section 2.2 requires Sydney Water to report on how it complies with those Licence requirements.

The water quality objectives referred to in this section 2.2.1 are objectives Sydney Water would need to identify for the Water Quality Management Systems. Sydney Water's water quality objectives may be either:

the broad objectives of the Water Quality Management Systems (eg, to ensure consistent management of water quality). These objectives may cover all 12 elements of the Framework for Management of Drinking Water Quality or the Framework for Management of Recycled Water Quality and Use, such as monitoring, operation, maintenance, training, community consultation and research programs, or  the target water quality criteria (ie, operational water quality objectives for each operational water quality characteristic included in the monitoring program developed as part of the Water Quality Management Systems eg, Escherichia coli numbers in raw water or sewage).

The activities and programs set out in the Water Quality Management Systems, which are referred to in this section 2.2.1, are those that Sydney Water would identify in its risk assessments as actions or programs that are required to manage or maintain a risk below a tolerable level. Undertaking a risk assessment is part of the Framework for the Management of Drinking Water Quality and the Framework for the Management of Recycled Water Quality, with which the relevant Water Quality Management System must be consistent.]

### 2.3 Intermittent reporting

### 2.3.1 Incident and emergency reporting – Drinking Water and Recycled Water

Sydney Water must immediately report to NSW Health any incident in the delivery of its Services which may adversely affect public health.

Sydney Water must report the "incident" (as defined in a Water Quality Management System) in accordance with the reporting protocols developed in that necessary Water Quality Management System.

[Note: To comply with the Licence, each Water Quality Management System must define the word "incident" include protocols for external communications and reporting of any incident. This section 2.3.1 requires Sydney Water to report any incident in accordance with these protocols.]

### 2.3.2 Notification of significant changes to Water Quality Management Systems

Sydney Water must notify IPART and NSW Health of any significant changes that it proposes to make to a Water Quality Management System prior to implementing the changes.

### 2.3.3 Report on review of public reporting with respect to water quality

Sydney Water must, by **31 December 2016**:

- complete a review of its public reporting on water quality (in consultation with its Customer Council and NSW Health), and
- submit to IPART a report detailing the outcomes of the review.

[Note: This requirement is imposed under clause 2.1.5 of the Licence.]

### 2.4 Publicly available documents

Sydney Water must make the Quarterly Water Quality Monitoring Report available to any person, free of charge:

- on its website for downloading, and
- upon request made to the Contact Centre.

# 3 Water quantity

This section relates to Sydney Water's reporting obligations under clause 3 of the Licence.

### 3.1 Periodic reporting

There is no periodic reporting requirement for the purpose of clause 3 of the Licence.

### 3.2 Annual Reporting

#### 3.2.1 Water Conservation Report

Sydney Water must prepare, for each financial year, a report with respect to water conservation (**Water Conservation Report**). Sydney Water must submit the Water Conservation Report to IPART by **1 September** following the end of the relevant financial year, or by a later date agreed to by IPART.

Until the Methodology is approved by IPART (under clause 3.2.3 of the Licence), the Water Conservation Report must provide information, in respect of the financial year to which the report relates, on:

- strategies, programs and projects relating to water conservation undertaken by Sydney Water
- steps that Sydney Water has taken to promote, foster and encourage the efficient use of water and the production and use of recycled water, where financially viable, and
- Sydney Water's performance against:
  - the water usage target and water leakage target, and
  - relevant system performance standards.

Once the Methodology is approved by IPART (under clause 3.2.3 of the Licence), the Water Conservation Report must:

- include the elements of Sydney Water's water conservation program for the previous financial year (or for the period the Methodology was approved if approved during that financial year) and for at least the next five financial years, including (but not limited to):
  - Sydney Water's strategies, programs and projects relating to water leakage, recycled water and water efficiency
  - Sydney Water's water conservation objectives, targets and timetables, and
  - The extent to which these elements accord with the economic level of water conservation activity and the Methodology

- describe and explain Sydney Water's progress against each of the elements of its water conservation program for the previous financial year (or for the period the Methodology was approved if approved during that financial year), including any deviations from this program
- describe and explain any changes to Sydney Water's water conservation program relative to the previous annual Water Conservation Report (where applicable)
- outline how Sydney Water's water conservation program relates to the Metropolitan Water Plan and its progress against the Metropolitan Water Plan, and
- include information on the following Water Conservation measures for the previous financial year (or for the period the Methodology was approved if approved during that financial year), as well as earlier financial years (where applicable) of the Licence term:
  - WC1 the quantity of Drinking Water drawn by Sydney Water from all sources, expressed in Gigalitres per year (aggregate), litres per person per day (weather corrected) and kilolitres per person per year (weather corrected).
  - WC2 the level of water leakage from Sydney Water's Drinking Water supply system against the economic level of leakage for that financial year
  - WC3 the volume of water sourced from Recycled Water (in Megalitres), and

[Note: The first Water Conservation Report to be submitted to IPART by Sydney Water after IPART approves the Methodology (**First Report**) will likely be submitted shortly after such approval is given. In those circumstances, IPART: (a) does not expect that Sydney Water will have fully implemented all of the water conservation activities set out in the First Report in accordance with the Methodology, and (b) anticipates that the five year plan set out in the First Report may be subject to change as the Methodology becomes more established.

The Water Conservation Report is to include information on any element of the water conservation program that may be identified as economically efficient by the Methodology but that Sydney Water has not implemented or is not proposing to implement.]

### 3.3 Intermittent reporting

#### 3.3.1 Economic level of water conservation – Methodology

Sydney Water must prepare a report outlining Sydney Water's approach to, and principles for, developing the Methodology. Sydney Water must submit the report to IPART by **1** November 2015.

# 3.3.2 Notification and approval of significant changes to economic level of water conservation methodology

Once the Methodology is approved by IPART (under clause 3.2.3 of the Licence), Sydney Water must:

- notify IPART of any significant changes that it proposes to make to the Methodology, and
- obtain IPART's consent to make any significant changes to the Methodology prior to implementing the changes.

### 3.4 Publicly available documents

Sydney Water must make the Water Conservation Report available to any person, free of charge:

- on its website for downloading, and
- upon request made to the Contact Centre.

### 4 Assets

This section relates to Sydney Water's reporting obligations under clause 4 of the Licence.

### 4.1 Periodic Reporting

There are no periodic reporting requirements for the purpose of clause 4 of the Licence.

#### 4.2 Annual Reporting

#### 4.2.1 Compliance and performance

Sydney Water must prepare, for each financial year, a report with respect to Sydney Water's performance against the System Performance Standards. Sydney Water must submit the report to IPART by **1 September** following the end of the relevant financial year, or by a later date agreed to by IPART.

The report must include the following information:

- information regarding Sydney Water's compliance or non-compliance with the System Performance Standards specified in clause 4.2 of the Licence in accordance with the template in Appendix C of this Reporting Manual, and
- an explanation of how Sydney Water has met or failed to meet the System Performance Standards, which details:
  - major factors (both positive and negative) that have influenced Sydney Water's performance, including factors that are both within and beyond Sydney Water's control, and
  - reasons for any significant variation (both positive and negative) between Sydney Water's performance in the financial year and performance in prior years.

[Note: under clause of 4.2 of the Licence, Sydney Water is required to comply with the Water Pressure Standard, Water Continuity Standard and Wastewater Overflow Standard.]

#### 4.2.2 Response time to breaks and leaks

Sydney Water must prepare a report, for each financial year, with respect to Sydney Water's performance against the response time indicators (indicators A5 to A8 in Appendix D) of this Reporting Manual. Sydney Water must submit the report to IPART by **1 September** following the end of the relevant financial year, or by a later date agreed to by IPART.

The report is to contain the following information:

- an explanation of major factors (both positive and negative) that have influenced Sydney Water's performance, including factors that are both within and beyond Sydney Water's control, and
- reasons for any significant variation (both positive and negative) between Sydney Water's performance in the financial year and performance in prior financial years.

[Note: under clause of 4.3 of the Licence, Sydney Water is required to report on water main breaks and leaks in accordance with the Reporting Manual.]

### 4.3 Intermittent reporting

#### 4.3.1 State of the Assets report

Sydney Water must prepare, for the financial year ending 30 June 2015, 30 June 2017 and 30 June 2019, a report on the state of each group of Assets managed by Sydney Water.

Sydney Water must submit the report to IPART by **1 September** following the end of the relevant financial year, or by a later date agreed to by IPART.

The report must include the following matters as at 1 July of the financial year:

- a description of each group of Assets managed by Sydney Water
- Sydney Water's assessment of the expected capability of the Assets to deliver the Services and to meet the existing obligations consistent with the Licence, the Customer Contract, and all applicable laws with which Sydney Water must comply
- Sydney Water's assessment of the major issues or constraints on current and future performance of the Assets
- the strategies and expected costs of future investment in Assets, and
- such other matters reasonably required by IPART.

#### 4.3.2 Notification of significant changes to Asset Management Framework

Until the Asset Management System is certified and implemented in accordance with clauses 4.1.2(a) and 4.1.4 of the Licence, Sydney Water must notify IPART of any significant changes that it proposes to make to the Asset Management Framework prior to implementing the changes. This obligation does not apply to changes to the Asset Management Framework that will assist in the transition of the Asset Management Framework to an Asset Management System.

#### 4.3.3 Modification of significant changes to the Asset Management System

Once the Asset Management System is certified and implemented in accordance with clauses 4.1.2 and 4.1.4 of the Licence, Sydney Water must notify IPART of any significant changes that it proposes to make to the Asset Management System prior to implementing the changes.

#### 4.4 Publicly available documents

Sydney Water must provide to IPART and make available to any person free of charge, on its website for downloading and upon request made to the Contact Centre, a copy of:

- a document setting out its process for responding to water main breaks and leaks, and
- the report on factors that influence the time taken by Sydney Water to stop the loss of water as measured from the time that Sydney Water receives the notification of a break or leak (as required under clause 4.2.2 of the Reporting Manual).

[Note: The process and decision making framework and performance indicators must relate to water main breaks and leaks in both the trunk and reticulation components of Sydney Water's Drinking Water supply system between water treatment plants and a Property.]

# 5 Customers and Consumers

This section relates to Sydney Water's reporting obligations under clause 5 of the Licence.

#### 5.1 Periodic Reporting

There is no periodic reporting requirement for the purpose of clause 5 of the Licence.

#### 5.2 Annual Reporting

There is no annual reporting requirement for the purpose of section 5 of the Licence.

#### 5.3 Intermittent reporting

There is no intermittent reporting requirement for the purpose of section 5 of the Licence.

#### 5.4 Publicly available documents

Sydney Water must make a copy of the:

- Customer Council Charter and minutes from proceedings of the Customer Council (as required under clause 5.5.6 of the Licence)
- Customer Contract, including any variations to it (as required under clause 5.1.2 of the Licence)
- pamphlet that explains the Customer Contract, including any variations made to it (as required under clause 5.2.3 of the Licence)
- explanation of Assistance Options for Payment Difficulties and Actions for Non-Payment (as required under clauses 5.4.3 and 5.4.4 of the Licence)
- information concerning internal Complaints handling, explaining how to make a Complaint and how Sydney Water will receive, respond to and resolve Complaints (as required under clause 5.6.4 of the Licence), and
- pamphlet that explains how the external disputes resolution scheme works and how it can be accessed (as required under clause 5.7.2(c) of the Licence),

available to any person, free of charge:

- on its website for downloading, and
- upon request made to the Contact Centre.

# 6 Environment – indicators and management

This section relates to Sydney Water's reporting obligations under clause 6 of the Licence.

#### 6.1 Periodic Reporting

There is no periodic reporting requirement for the purpose of clause 6 of the Licence.

#### 6.2 Annual Reporting

#### 6.2.1 Compliance and performance

Sydney Water must prepare, for each financial year, a compliance and performance report on Sydney Water's Environmental Management System. Sydney Water must submit the compliance and performance report to IPART by **1 October** following the end of the relevant financial year, or by a later date agreed to by IPART.

The compliance and performance report must include:

- a summary of the objectives and targets of the Environmental Management System
- the environmental management activities and programs completed by Sydney Water in the financial year to meet the objectives and targets of the Environmental Management System
- the results and outcomes from those activities and programs
- the environmental management activities and programs proposed to be undertaken by Sydney Water to meet the objectives and targets of the Environmental Management System in the future, including the timetable for completion
- any proposed significant changes to the Environmental Management System, and
- any non-conformances with the Environmental Management System and the actions taken to resolve those non-conformances.

[Note: Under clause 6.1.1 of the Licence, Sydney Water must maintain an Environmental Management System that is consistent with the standard specified in the Licence. The standard outlines the components of an Environmental Management System, which includes identifying and developing objectives and targets for the Environmental Management System. Clause 6.1.4 of the Licence requires Sydney Water to provide IPART with a report on the outputs of the Environmental Management System in accordance with this Reporting Manual. This section 6.2.1 requires Sydney Water to report on how it complies with the requirement under clause 6.1.4 of the Licence in accordance with this Reporting Manual. The environmental management activities and programs referred to in this section 6.2.1 are those that Sydney Water would need to undertake to achieve the objectives and targets of the Environmental Management System.]

#### 6.3 Intermittent reporting

Sydney Water must report to IPART any significant changes that it proposes to make to the Environmental Management System prior to implementing the changes.

#### 6.4 Publicly available documents

Sydney Water must make the compliance and performance report on the Environmental Management System (referred to in section 6.2.1 of this Reporting Manual) available to any person, free of charge:

- on its website for downloading, and
- upon request made to the Contact Centre.

# 7 Quality management

This section relates to Sydney Water's reporting obligations under clause 7 of the Licence.

#### 7.1 Periodic Reporting

There is no periodic reporting requirement for the purpose of clause 7 of the Licence.

#### 7.2 Annual Reporting

Under clauses 7.1.1 to 7.1.3 of the Licence, Sydney Water must, by:

- ▼ 30 June 2017, develop; and
- 30 June 2018, have certified and fully implement,

a Quality Management System. The reporting obligations set out in this section only arise once the Quality Management System has been developed and certified in accordance with the Licence.

#### 7.2.1 Compliance and performance

Sydney Water must prepare, for each financial year, a compliance and performance report. Sydney Water must submit the compliance and performance report to IPART by **1 September** following the end of the relevant financial year, or by a later date agreed to by IPART.

The compliance and performance report must include:

- the quality management activities and programs completed by Sydney Water in the relevant financial year to meet the objectives of the Quality Management System
- the results and outcomes from those activities and programs
- the quality management activities and programs proposed to be undertaken by Sydney Water to meet objectives of the Quality Management System in the future, including the timetable for completion
- any proposed significant changes to the Quality Management System, and
- any non-conformances in the Quality Management System and the action taken to resolve those non-conformances.

[Note: Under clauses 7.1.1 to 7.1.3 of the Licence, Sydney Water must develop, have certified and implement a Quality Management System that is consistent with the standard specified in the Licence. This section 7.2.1 requires Sydney Water to report on how it complies with that Licence requirement. The objectives referred to in this section 7.2.1 are those that Sydney Water would need to identify for the Quality Management System. The quality management activities and programs

referred to in this section 7.2.1 are those that Sydney Water would need to undertake to achieve the objectives of the Quality Management System.]

### 7.3 Intermittent reporting

Sydney Water must report to IPART any significant changes that it proposes to make to the Quality Management System prior to implementing the changes.

### 7.4 Publicly available documents

Sydney Water must make the compliance and performance report on the Quality Management System (referred to in section 7.2.1 of this Reporting Manual) available to any person free of charge:

- on its website for downloading, and
- upon request made to the Contact Centre.

# 8 Performance monitoring

This section relates to Sydney Water's reporting obligations under clause 8 of the Licence.

#### 8.1 Periodic Reporting

There is no periodic reporting requirement for the purpose of clause 8 of the Licence.

#### 8.2 Annual Reporting

#### 8.2.1 Compliance and performance

In addition to any annual reporting requirements referred to in other sections of this Reporting Manual:

 Sydney Water must prepare, for each financial year, a compliance and performance report on:

Sydney Water's performance against the performance indicators set out in Appendix D of this Reporting Manual for the relevant financial year.

Sydney Water must include in the compliance and performance report information on its performance against National Water Initiative Performance Reporting Indicators (other than those that relate to environmental indicators).

Sydney Water may choose to include with the report an explanation of Sydney Water's performance, which details:

- major factors (both positive and negative) that have influenced Sydney Water's performance, both within and beyond Sydney Water's control, and
- reasons for any variation (both positive and negative) between Sydney Water's performance in the financial year and with performance in prior years.

[Note: Under clause 8.2 of the Licence, Sydney Water must comply with its reporting obligations in this Reporting Manual. This section 8.2.1 requires Sydney Water to report on its performance against performance indicators set out in this Reporting Manual. From time to time, IPART may review and change IPART performance indicators. When that occurs we will update this Reporting Manual accordingly and notify stakeholders of the changes.

Under Licence clause 8.2.1(c), Sydney Water must report to IPART the National Water Initiative Performance Indicators as outlined the National urban water utility performance reporting framework: indicators and definitions handbook, published in January 2018 by the Bureau of Meteorology and updated from time to time.]

 Sydney Water must submit the compliance and performance report to IPART (other than those that relate to environmental indicators) by **1 September** following the end of the relevant financial year, or by a later date agreed to by IPART. Sydney Water must prepare, for each financial year, a separate compliance and performance report setting out Sydney Water's performance against the environmental indicators set out in Error! Reference source not found. in Appendix D and National Water Initiative Performance Reporting Indicators that relate to the environment. Sydney Water must submit the report to IPART by 1 October following the end of the relevant financial year, or by a later date agreed to by IPART.

### 8.3 Intermittent reporting

There is no intermittent reporting requirement for the purpose of clause 8 of the Licence.

#### 8.4 Publicly available documents

Sydney Water is not required to make documents or reports publicly available under this section 8 of this Reporting Manual.

[Note: IPART provides annual performance data on the public water utilities (including Sydney Water) on its website. Further, the Bureau of Meteorology prepares an annual National Performance Report with respect to all urban water utilities (including Sydney Water). This report is also publicly available.]

# 9 Other Reporting

#### 9.1 Audit recommendations

Sydney Water must report to IPART annually on the status of any audit recommendations identified in the most recent Operational Audit and outlined in IPART's audit report to the Minister.

Sydney Water must submit the audit recommendations status report to IPART by **31 March** of each year, or by another date agreed to by IPART.

[Note: Under clause 8.1 of the Licence, IPART or an Auditor may undertake an Operational Audit. This section 9.1 requires Sydney Water to report on the status of implementing recommendations identified in an Operational Audit.]

#### 9.2 Statement of compliance

Sydney Water must submit a statement of compliance to IPART by **1 September** of each year. Sydney Water must provide the statement of compliance in the form of Appendix F of this Reporting Manual.

[Note: This section 9.2 relates to clause 8.1 of the Licence, under which IPART may undertake an Operational Audit on Sydney Water's compliance with the Licence. As part of the preparation for the audit process, this section 9.2 requires Sydney Water to provide a statement of compliance which identifies any non-compliance with the Licence of which Sydney Water is aware.]

Appendices

# A Timeline for Reporting

Date/frequency	Report to	Required Report
Monthly	NSW Health	<ul> <li>Reporting on fluoride monitoring</li> </ul>
Quarterly	Public	<ul> <li>Quarterly Water Quality Monitoring Report</li> </ul>
Quarterly	NSW Health	<ul> <li>Exception reporting on Sydney Water's monitoring of Drinking Water and Recycled Water</li> </ul>
Annually 31 March	IPART	<ul> <li>Audit recommendation status update</li> </ul>
Annually 1 September	IPART	<ul> <li>Compliance and performance report on:         <ul> <li>Management of the quality of Drinking Water and Recycled Water</li> <li>Water conservation</li> <li>Compliance with Water Pressure Standard, Water Continuity Standard and Wastewater Overflow Standard</li> <li>Response time to breaks and leaks</li> <li>Quality Management System</li> <li>Performance indicators (Appendix D)</li> <li>NWI indicators (except for environmental indicators)</li> </ul> </li> </ul>
Annually 1 October	IPART	<ul> <li>Compliance and performance report on Environmental Management System, environment performance indicators (Appendix D) and NWI environment indicators</li> </ul>

Table A.1	Timing of regular reporting under the Sydney Water Licence
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#### Table A.2 Timing of submission of other specific reports by Sydney Water

Date	Submitted to	Event
1 November 2015	IPART	Report on outlining approach and principles to developing its methodology for the determination of economic level of water conservation
31 December 2016	IPART	Report on the outcomes of the review of public reporting on water quality
1 September 2015, 1 September 2017 and 1 September 2019	IPART	State of the Assets report
Immediately upon occurrence of incident	NSW Health	Incident water quality monitoring results

### B Drinking Water health and aesthetic water characteristics and raw water operational monitoring characteristics

### **Important note:**

The following tables outline the characteristics to be monitored as required by NSW Health under ADWG 2011. The characteristics and / or the guideline values will only be changed between versions of the Reporting Manual with the written approval of NSW Health.

Table D.1 corresponds to the information to be publically reported quarterly.

Table D 2 corresponds to the information to be publically reported annually.

The information must be placed on Sydney Water's website to be freely available to be downloaded by any person.

The assessment of long term performance for both health and aesthetic characteristics is detailed below:

Evaluating long term microbial performance – in agreement with NSW Health at least 98% of scheduled samples collected over the preceding 12 months contain no *Escherichia coli* (or thermotolerant coliforms).

Evaluating long term health related chemicals – the 95th percentile statistic calculated for the previous 12 months must be less than the guideline value.

Evaluating long term aesthetic characteristics – the mean value (or average) of results over the preceding 12 months must be less than the guideline value.

# Table B.1 Quarterly Public Reporting - Drinking water health and aesthetic water characteristics and raw water operational monitoring characteristics

Drinking Water Qua	Drinking Water Quality						
Characteristic	ADWG 2011 recommendation						
	Location	Frequency	Health/aesthetic characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments		
micro-organisms							
<i>E. coli</i> (or thermotolerant coliforms)	supply to consumer/ distribution system	at least weekly (number of samples based on population)	Η	not detected/100 mL (reported as <1orgs/100 mL)	Key parameter – monitored as per ADWG 2011. An indicator of faecal contamination from warm blooded animals.		
Physical characteri	stics						
hardness (as CaCO₃)	supply to consumer/ distribution system	monthly if water treated for hardness, otherwise quarterly	A	200	Hardness is caused by calcium and magnesium salts. All water supplied by Sydney Water is relatively soft.		
рН	supply to consumer/ distribution system	fortnightly	A	6.5-8.5	Key risks are buffering problems at WFPs and cement lined mains leaching lime and causing higher pH.		
taste	supply to consumer/ distribution system	annually - complaints	A	acceptable (3)	May indicate undesirable contaminants. Source of problem often difficult to identify. Can occur from problems such as algae, biofilm, chlorine, dissolved solids and metals such as iron, copper manganese and zinc.		

Characteristic			ADWG 2	011 recommendation	1
	Location	Frequency	Health/aesthetic characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments
odour	supply to consumer/ distribution system	annually - complaints	A	acceptable (3)	May indicate undesirable contaminants. Source of problem often difficult to identify. Can occur from problems such as algae, biofilm, chlorine, dissolved solids and metals such as iron, copper manganese and zinc.
total dissolved solids	supply to consumer/ distribution system	quarterly	A	600	This characteristic is unlikely to vary significantly throughout the system. A high TDS can be caused by high levels of salts which can have adverse effects on some industrial processes.
true colour	supply to consumer/ distribution system	monthly	A	15	Sources of colour in water can include iron, manganese, humic and fulvic acids and dissolved plant components. Colour removal occurs in the treatment process.
turbidity	supply to consumer/ distribution system	monthly	A	5 NTU	NSW Health requires inclusion for compliance purposes. Higher turbidity may shield some micro- organisms from disinfection and create a chlorine demand. Caused by presence of suspended matter Can be of health concern in that particulates may comprise toxic material or absorb them. Turbidity is removed through water treatment processes.
Inorganic chemicals	Disinfection Agents a	nd Inorganic By-pro	ducts of Disinfectio	n	
chloramine – see monochloramine	supply to consumer/ distribution system	weekly if used as a disinfectant			See monochloramine
chlorine (free)	supply to consumer/ distribution system	weekly if used as a disinfectant	H A	5 0.6	Key parameter. Used as a p primary and secondary disinfectant. Unlikely to exceed health guideline value except in exceptional circumstances. Aesthetic guideline value is routinely exceeded to minimise microbiological risks.

Characteristic	ADWG 2011 recommendation						
	Location	Frequency	Health/aesthetic characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments		
monochloramine	supply to consumer/ distribution system	weekly if used as a disinfectant	Н	3	Used as disinfectant in chloraminated systems. Odour threshold for monochloramine is 0.5 mg/L.		
Other inorganic cher	nicals						
fluoride	supply to consumer/ distribution system	weekly if fluoridated, otherwise quarterly	Η	0.9 - 1.5	Fluoride is added to the water at all WFPs. Can also occur naturally in some waters from fluoride- containing rocks. The ADWG 2011 health guideline for fluoride is 1.5 mg/L. Sydney Water measures fluoride against the <i>Fluoridation of Public Water</i> <i>Supplies Act 1957</i> which requires fluoride to be between 0.9 and 1.5 mg/L. This characteristic is unlikely to vary significantly throughout each WFP system.		
iron	supply to consumer/ distribution system	fortnightly, or weekly if used as coagulant	A	0.3	Key parameter. Iron (ferric chloride) is added as a coagulant aid at WFPs. Occurs naturally in water. Can result from corrosion of iron pipes. Can stain laundry Iron bacteria can block pipework, cause taste/odour and corrosion.		
manganese	supply to consumer/ distribution system	fortnightly	H A	0.5 0.1	Key parameter. Occurs naturally in water, higher in oxygen depleted water. Can cause staining and taste. Less than 0.05 mg/L is desirable. Problems with manganese have been experienced in the past in several systems.		
<b>Critical Control Poin</b>	ts						
Filtration	At the treatment plant	Daily	Н	na	_		
Primary Chlorination	At the treatment plant	Daily	Н	na			
Secondary chlorination	Supply to customer	Daily	Н	na			
Fluoridation	At the treatment plant	Daily	Н	na			

# Table B.2 Annual Public Reporting - Drinking water health and aesthetic water characteristics and raw water operational monitoring characteristics

Characteristic	ADWG 2011 recommendation						
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments		
Physical characteri	stics						
dissolved oxygen	supply to consumer/ distribution system	monthly	A	>85% sat.	Some treatment processes may reduce DO content.		
temperature	supply to consumer/ distribution system	weekly (normally measured when a microbiological sample is taken)	A	no value	Carried out as standard procedure with Coliform analysis. Rapid changes may bring complaints.		
Inorganic chemicals Disinfection Agents and Inorganic By-products of Disinfection							
bromate	supply to consumer/ distribution system	weekly if ozonation used, otherwise not required	Η	0.02	Ozonation not used as a primary disinfectant. Monitoring not required.		
Other inorganic che	emicals						
aluminium (acid- soluble)	supply to consumer/ distribution system	weekly if aluminium salts used in clarification	A	0.2	Usually associated in drinking water with use of Aluminium salts in flocculation, or from clay soils. Alum salts are no longer used by Sydney Water.		
ammonia (as NH3)	supply to consumer/ distribution system	monthly	A	0.5	Key characteristic – monitored in all delivery systems as of 2003/04. Ammonia is added at WFPs for disinfection purposes Apart from addition for disinfection purposes, may indicate presence of sewage contamination and/or microbiological activity		
antimony	supply to consumer/ distribution system	quarterly	Η	0.003	May result from use of antimony-tin solder – not use by Sydney Water on water mains or treatment processes.		

Characteristic			ADWG 20	11 recommendatio	n
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments
arsenic	raw water	quarterly	Н	0.01	Possibly from natural sources Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.
asbestos	supply to consumer/ distribution system	annually if at all		none	Asbestos pipe accounts for less than 1% of pipe in Sydney Water's area. The LGAs with most existing asbestos pipe are the Blue Mountains, Hawkesbury and Fairfield. Not for routine compliance monitoring as there is no guideline value. Refer to Section V (Fact Sheets) in ADWG 2011.
barium	raw water	quarterly	н	2	Barium can occur naturally from exposure to barium containing rocks. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.
beryllium	raw water	annually if at all	Н	0.06	Can occur from the weathering of rocks and burning of fossil fuels. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.
boron	raw water	Quarterly	Н	4	From natural leaching of minerals and contamination, possibly from seawater intrusion. Monitor for North Richmond only. Raw water monitoring is the responsibility of SCA for other systems.
cadmium	supply to consumer/ distribution system	quarterly/specific investigation	Н	0.002	Can occur from industrial or agricultural contamination or from galvanised pipe or fitting corrosion. There are still significant quantities of galvanised pipe in use for main to meter water services, although no longer installed.
chloride	supply to consumer/ distribution system	quarterly	A	250	Not considered to be a problem for Sydney's water supply, from natural mineral salts or effluent contamination.

Characteristic	ADWG 2011 recommendation						
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments		
chromium (as Cr(VI))	supply to consumer/ distribution system	quarterly	Н	0.05	From industrial/agricultural contamination of raw water or corrosion of plumbing materials. Classified as human carcinogen.		
copper	supply to consumer/ distribution system	monthly / specific investigation	H A	2 1	Potential for copper levels to occur due to corrosion of copper fittings by soft water. Sydney has soft water. A key WQ characteristic monitored each year.		
cyanide	supply to consumer/ distribution system	annually if at all	Н	0.08	From industrial wastes and some plants and bacteria.		
hydrogen sulfide	supply to consumer/ distribution system	monthly	A	0.05	Formed in water by sulfate-reducing micro-organisms or hydrolysis of soluble sulfide under anoxic conditions. Aesthetic guideline value only.		
iodide	raw water	annually if at all	Н	0.5	From mineral and salt deposits. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
lead	supply to consumer/ distribution system	monthly/specific investigation	Н	0.01	Occurs in water from dissolution from natural sources or from pipes and fittings containing lead. There still exist old lead jointed mains in the Sydney area.		
mercury	raw water	quarterly	Н	0.001	Very low concentrations occur naturally. From industrial emissions/spills or possibly contaminant in chemicals. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
molybdenum	raw water	quarterly	Н	0.05	From mining, agriculture or fly-ash deposits from coal fuelled power stations. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
nickel	supply to consumer/ distribution system	quarterly / specific investigation	Н	0.02	From nickel plated fittings.		

Characteristic	ADWG 2011 recommendation						
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments		
nitrate	supply to consumer/ distribution system	monthly	Н	50 as NO3	Key characteristic in chloraminated systems. Occurs naturally. From intensive farming and sewage effluent. Presence is more likely in chloraminated systems where ammonia is used in conjunction with chlorine, for disinfection purposes.		
nitrite	supply to consumer/ distribution system	monthly	Н	3 as NO <sub>2</sub>	Key characteristic in chloraminated systems. Presence is more likely in chloraminated systems where ammonia is used in conjunction with chlorine, for disinfection purposes.		
selenium	raw water	quarterly	Н	0.01	Generally low levels in natural water. Can occur from selenium concentrations in some soil. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
silver	raw water	annually if at all	Н	0.1	May occur in very low concentrations in natural waters from natural sources and industrial wastes. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
sodium	supply to consumer/ distribution system	quarterly	A	180	Natural component of water. Drinking water is generally a minor contributor to the total dietary intake of sodium.		

Drinking Water Quality							
Characteristic	ADWG 2011 recommendation						
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments		
sulfate	treated water	quarterly	H A	500 250	Natural component of water, and may be added via treatment chemicals. Aluminium sulfate is not used as a coagulant at WFPs. Copper sulfate is not used to control algae in storage dams. Not considered to warrant further monitoring at this time. Possible inclusion within next 3 years for background data.		
tin	raw water	annually if at all		none	Concentration in water is very low. One of least toxic metals. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond. Not for routine compliance monitoring as there is no guideline value.		
zinc	supply to consumer/ distribution system	monthly / specific investigation	A	3	Key characteristic. Usually occurs from corrosion of galvanised pipes, fittings and brasses. Adverse health effects from zinc are believed to relate more from too low intake rather than too high.		
Organic compounds							
acrylamide	treated water	quarterly	Н	0.0002	Acrylamide occurs as a minor impurity in polyacrylamide. It may be contained in some polymers used as filter aids at water filtration plants or as a coagulant before thickening on recycle systems.		
benzene	raw water	annually if at all	Н	0.001	From atmospheric deposition and chemical plant effluent. Human carcinogen. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
carbon tetrachloride	treated water	quarterly	Н	0.003	Sometimes occurs as impurity in chlorine used for disinfection. Also used in manufacture of chlorofluoromethane, in fire extinguishers, solvents and cleaning agents.		
chlorobenzene	raw water	annually if at all	Н	0.3	From spills and discharges. Monitor in event of spill only. Raw water monitoring is responsibility of SCA		

Drinking Water Quality							
Characteristic	ADWG 2011 recommendation						
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments		
			A	0.01	for other systems, except for North Richmond. No routine monitoring.		
dichlorobenzenes	raw water	annually if at all			Could occur from spills, discharges or leaching from		
1,2-dichlorobenzene			Н	1.5	contaminated soils. Monitor for North Richmond only		
(1,2-DCB)			А	0.001	Raw water monitoring is responsibility of SCA for		
1,3-dichlorobenzene (I,3-DCB)			A	0.02	other systems.		
1,4-dichlorobenzene			Н	0.04			
(1,4-DCB)			А	0.0003			
dichloroethanes	raw water	annually if at all		none	Possibly from industrial effluents, spills, discharges or atmospheric deposition. Monitor for		
1,2-dichloroethane			н	0.003	1,2-dichloroethane at North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
dichloroethenes	raw water	annually if at all			Rarely found in drinking water. Found occasionally in		
1,1-dichloroethene (1,1-DCE)		,	Н	0.03	ground water from wells heavily contaminated by solvents. Monitor for North Richmond only. Raw		
1,2-dichloroethene (I,2-DCE)			Н	0.06	water monitoring is responsibility of SCA for other systems.		
dichloromethane (methylene chloride)	raw water	annually if at all	Н	0.004	Used in manufacture of paint removers, insecticides, solvents and cleaners. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.		
epichlorohydrin	treated water	annually if at all	Н	0.0005	Used in manufacture of some resins used in water treatment and as raw material in the manufacture of flocculants. According to ADWG 2011 the health guideline value is below the limit of detection with		

current analytical procedures however previous testing in Australia has detected at levels as low as

0.0002 mg/L.

Characteristic			ADWG 20	11 recommendatio	n
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments
ethylbenzene	raw water	annually if at all	H A	0.3 0.003	Component of petrol and petroleum products. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.
ethylenediamine tetraacetic acid (EDTA)	raw water	annually if at all	Н	0.25	Metal complexing agent widely used in industry and agriculture. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems. Lab with NATA accredited method not identified.
hexachlorobutadiene	raw water	annually if at all	Н	0.0007	Industrial solvent. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.
nitrilotriacetic acid (NTA)	raw water	annually if at all	Н	0.2	Chelating agent in laundry detergents. May enter water through sewage contamination. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems. Lab with NATA accredited method not identified.
dialkyltins tributyltin oxide	raw water	annually if at all	Н	None 0.001	Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems. NATA accredited or equivalent method not identified.
plasticisers di(2-ethylhexyl) phthalate (DEHP) di(2-ethylhexyl) adipate (DEIqA)	supply to consumer/ distribution system	annually if at all	Н	0.01 None	Used in all flexible PVC products and may leach from these over a long time. Could also occur from spills. PVC pipe accounts for less than 5 % of water mains and has only been used in limited amounts in the last 20 years. Usage is increasing. Monitor for di(2-ethylhexyl) phthalate (DEHP) only.
polycyclic aromatic hydrocarbons (PAHs) Benzo-(a)-pyrene	supply to consumer/ distribution system	annually if at all	Н	0.00001	Contamination can occur through atmospheric deposition, or leaching from bituminous linings. Bituminous lining is not generally used in water mains but was used on steel reservoirs prior to 1990. Monitor for background data, for compliance purposes

Characteristic			ADWG 20	11 recommendatio	n
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments
					at customer's tap.
styrene (vinylbenzene)	raw water	annually if at all	H A	0.03 0.004	Possibly from industrial contamination. Can be used in manufacture of plastics, synthetic rubbers, resins and insulators. Monitor for North Richmond only. Raw water monitoring is responsibility of SCA for other systems.
tetrachloroethene	raw water	annually if at all	Н	0.05	Dry cleaning solvent and metal de-greaser. Could occur in drinking water from spills. Routine monitoring not required. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond.
toluene	supply to consumer/ distribution system	annually if at all	H A	0.8 0.025	Occurs naturally in petrol and natural gas, forest fire emissions. Could occur in drinking water from atmospheric deposition, industrial contamination, leaching from protective coatings in storage tanks.
trichlorobenzenes (total)	raw water	annually if at all	H A	0.03 0.005	Industrial chemical used as a solvent, dielectric fluid and in polyester dyeing. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond.
1,1,1-trichloroethane	raw water	annually if at all		None	Industrial chemical. Could occur from spills. Routine monitoring not required. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond.
trichloroethylene (TCE)	raw water	annually if at all		None	Used as a solvent in dry cleaning, refrigerant and fumigant. Could occur from spills. Routine monitoring not required. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond.
vinyl chloride	raw water	annually if at all	Н	0.0003	Used in production of PVC resins for building and construction. Used in manufacture of early PVC pipes – no longer used. Sydney Water does not have any quantities of PVC pipes made with this compound.

Drinkin	g Water	Quality

Characteristic	ADWG 2011 recommendation					
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments	
					Could occur from spills. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond.	
xylene	supply to consumer/ distribution system	annually if at all	H A	0.6 0.02	Could occur in drinking water as a pollutant, or from solvent used for bonding plastic fittings. Used in aviation fuels and petroleum and other chemicals. Sydney Water uses rubber ring joints for plastic pipes, not bonding agents.	
	a a set set a second a set of the second	au dalla a contra				
the source of supply is chlorinated furanones	supply to consumer/	guideline value		none	By-product of Chlorination. Not for routine	
the source of supply is chlorinated furanones	s changed. supply to consumer/ distribution system	guideline value		none	compliance monitoring as there is no guideline value.	
the source of supply is chlorinated furanones chloroacetic acids	s changed. supply to consumer/ distribution system supply to consumer/	guideline value	н			
the source of supply is chlorinated furanones chloroacetic acids chloroacetic acid	s changed. supply to consumer/ distribution system	guideline value	н Н	0.15	compliance monitoring as there is no guideline value.	
the source of supply is chlorinated furanones chloroacetic acids chloroacetic acid dichloroacetic acid	s changed. supply to consumer/ distribution system supply to consumer/	guideline value			compliance monitoring as there is no guideline value.	
the source of supply is chlorinated furanones chloroacetic acids chloroacetic acid dichloroacetic acid trichloroacetic acid chloroketones 1,1-	s changed. supply to consumer/ distribution system supply to consumer/	guideline value	н	0.15 0.10	compliance monitoring as there is no guideline value.	
the source of supply is chlorinated furanones chloroacetic acids chloroacetic acid dichloroacetic acid trichloroacetic acid chloroketones 1,1- dichloropropanone	s changed. supply to consumer/ distribution system supply to consumer/ distribution system supply to consumer/	guideline value	н	0.15 0.10 0.10 none none	compliance monitoring as there is no guideline value. By-product of Chlorination. By-product of Chlorination. Not for routine compliance	
the source of supply is	s changed. supply to consumer/ distribution system supply to consumer/ distribution system supply to consumer/	guideline value	н	0.15 0.10 0.10 none	compliance monitoring as there is no guideline value. By-product of Chlorination. By-product of Chlorination. Not for routine compliance	

Characteristic	ADWG 2011 recommendation					
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments	
trichloropropanone						
chlorophenols	supply to consumer/				By-product of Chlorination of water containing	
2-chlorophenol	distribution system		Н	0.3	phenols.	
			А	0.0001		
2,4-dichlorophenol			Н	0.2		
			А	0.0003		
2,4,6-trichlorophenol			Н	0.02		
			А	0.002		
chloropicrin	supply to consumer/ distribution system			None	By-product of Chlorination. Not for routine compliance monitoring as there is no guideline value.	
cyanogen chloride	supply to consumer/ distribution system		Н	0.08	By-product of Chloramination.	
formaldehyde	supply to consumer/ distribution system		Н	0.5	By-product of Ozonation.	
haloacetonitriles	supply to consumer/				By-product of Chlorination. Not for routine compliance	
dichloroacetonitrile	distribution system			None	monitoring as there is no guideline value.	
dichloroacetonitrile				None		
dichloroacetonitrile				None		
dichloroacetonitrile				None		
trichloracetaldehyde	supply to consumer/		Н	0.02	By-product of Chlorination.	
(chloral Hydrate)	distribution system				Lab with NATA accredited method not identified.	
trihalomethanes	distribution system & outlet of WFPs		Н	0.25	By-product of Chlorination and Chloramination.	
n- nitrosodimethylamine (NDMA)	distribution system & outlet of WFPs		Н	0.0001	By-product of Chlorination and Chloramination.	

Characteristic	ADWG 2011 recommendation				
	Location	Frequency	Health/aestheti c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments
pesticides	raw water	one sample per month from storage reservoir inlet or intake to distribution should be analysed for those pesticides previously detected in the source water, or where their likely use would indicate that they might be detected sampling for some pesticides is required 5-yearly, 3-yearly, or annually, based on agreement with NSW Health.	Η	various	The main risks for pesticides are agricultural and domestic use in catchment areas and spills. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond.

Radiological characteristics

Drinking Water Qua	lity					
Characteristic	ADWG 2011 recommendation					
	Location Frequency		c characteristic	Guideline value (mg/L unless otherwise noted)	Key Risk Area / Comments	
gross alpha	raw water	radiological quality should be assessed when a new supply is	Н	0.5 Bq/L	Primary risk is from natural sources in catchments. Raw water monitoring is responsibility of SCA for other systems, except for North Richmond.	
gross beta		brought into service, and then every two years for ground water supplies, and every 5 years for surface water supplies.	Н	0.5 Bq/L	No specific guideline values are set for beta- or gamma-emitting radionuclides. Specific beta- or gamma-emitting radionuclides should be identified and determined only if gross beta radioactivity (after subtracting the contribution of potassium-40) exceeds 0.5 Bq/L (27.6 Bq of beta activity per gram of stable potassium). It should never be regarded as a guideline value, or even as an indicative water quality target.	
Micro-organisms - P	Protozoa					
Cryptosporidium	N/A	N/A		N/A		
Giardia	N/A	N/A		N/A		
Micro-organisms – o	cyanobacteria and	d their toxins				
Microcystins	NA	NA	Н	1.3 µg/L	There are also alert/notification levels based on cell	
Cylindrospermopsin	NA	NA	Alert level	1 µg/L	<ul> <li>count and biovolume of a specific group of potentially toxic graphactoria.</li> </ul>	
Nodularin	NA	NA	Alert level	1.3 µg/L	toxic cyanobacteria.	
Saxitoxins	NA	NA	Alert level	3 µg/L		

## C System Performance Standards

The table in this Appendix C sets out the System Performance Standards that must be reported to IPART.

**Important Note**: The data in the following table must be accompanied by an explanation of the performance against the requirements in the Licence which details:

- major factors (both positive and negative) that have influenced this performance, including factors that are both within and beyond Sydney Water's control and
- reasons for any variation (both positive and negative) between performance in the preceding financial year and prior 5 years.

Standard No.	Standard Definition
SPS 1	The Number of Properties that experience a Water Pressure Failure in the preceding financial year, as defined in the Licence.
SPS 2	The Number of Properties that experience an Unplanned Water Interruption that lasts for more than 5 continuous hours, in the preceding financial year, as defined in the Licence.
SPS 3	The Number of Properties that experience 3 or more Unplanned Water Interruptions that each lasts for more than 1 hour, in the preceding financial year as defined in the Licence.
SPS 4	The Number of Properties (other than Public Properties) that experience an Uncontrolled Wastewater Overflow in dry weather in the preceding financial year, as defined in the Licence.
SPS 5	The Number of Properties (other than Public Properties) that experience 3 or more Uncontrolled Wastewater Overflows in dry weather in the preceding financial year, as defined in the Licence.

### Table C.1 System Performance Standards

Note: The Water Conservation Targets have been removed following the introduction of the Economic Level of Water Conservation in accordance with clause 3.2.5 of the Operating Licence and converted to the water conservation measures WC1, WC2 and WC3 reported under section 3.2.1. of this Reporting Manual.

# D IPART performance indicators

The table in this Appendix D sets out the performance indicators developed by IPART that Sydney Water must report on.

Table D.1	Proposed IPART performance Indicators
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Performance area	Indicator number	Indicator	Definition
Assets	A1	Number of properties that experience an unplanned water interruption that lasts for more than five continuous hours	Number of properties that experience an unplanned water interruption that lasts for more than five continuous hours in the financial year.
	A2	Number of properties that experience three or more unplanned water interruptions that each lasts for more than one hour	Number of properties that experience three or more water interruptions that each lasts for more than one hour in the financial year.
	A5 <sup>a</sup>	Percent of priority 6 breaks/leaks in drinking water mains that the water utility responded to within 3 hours	Percent of priority 6 breaks/leaks in drinking water mains that the water utility responded to within 3 hours in the financial year.
	A6 <sup>b</sup>	Percent of priority 5 breaks/leaks in drinking water mains that the water utility responded to within 6 hours	Percent of priority 5 breaks/leaks in drinking water mains that the water utility responded to within 6 hours in the financial year.
	А7 <sup>с</sup>	Percent of priority 5 breaks/leaks in drinking water mains that the water utility responded to within 24 hours	Percent of priority 5 breaks/leaks in drinking water mains that the water utility responded to within 24 hours in the financial year.
	A8 <sup>d</sup>	Percent of priority 4 breaks/leaks in drinking water mains that the water utility responded to within 5 days	Percent of priority 4 breaks/leaks in drinking water mains that the water utility responded to within 5 days in the financial year.
	A10	Number of properties that experience a water pressure failure	Number of properties that experience a water pressure failure in the financial year.
	A11	Number of properties (other than public properties) that experience an uncontrolled wastewater overflow in dry weather	Number of properties (other than public properties) that experience an uncontrolled wastewater overflow in dry weather in the financial year.
	A12	Number of properties (other than public properties) that experience three or more uncontrolled wastewater overflows in dry weather	Number of properties (other than public properties) that experience three or more uncontrolled wastewater overflows in dry weather in the financial year.
Environment	E1 <sup>e</sup>	Total energy consumption by the water utility (electricity, fuel and gas) in units provided on energy bills	Total energy consumption by the water utility (electricity, fuel and gas) in units provided on energy bills in the financial year.
	E2 <sup>f</sup>	Electricity consumption from renewable resources or generated by the water utility expressed as a total	Electricity consumption from renewable resources or generated by the water utility expressed as a total percentage of electricity consumption in the financial

	percentage of electricity consumption	year.
E3	Total number of controlled wastewater overflows that occur in dry weather that discharged to the environment, per km of sewer main	Total number of controlled sewage overflows that occur in dry weather that discharged to the environment, per km of sewer main in the financial year.
Ξ4	Total number of uncontrolled wastewater overflows that occur in dry weather that discharged to the environment, per km of sewer main	Total number of uncontrolled sewage overflows that occur in dry weather that discharged to the environment, per km of sewer main in the financial year.
≡5 <sup>9</sup>	Total mass of biosolids produced by the water utility	Total mass of biosolids produced by the water utility in the financial year.
E6 <sup>h</sup>	Percent of solid waste recycled or reused expressed as a percentage of solid waste generated	Percent of solid waste recycled or reused expressed as a percentage of solid waste generated in the financial year.
E7 <sup>i</sup>	Total mass of solid waste generated by the water utility	Total mass of solid waste generated by the water utility in the financial year.
E8 <sup>j</sup>	Total area of clearing of native vegetation	Total area of clearing of native vegetation in the financial year.
E9 <sup>k</sup>	Total area of native vegetation rehabilitated, including due to replanting and protection by the water utility	Total area of native vegetation rehabilitated, including due to replanting and protection by the water utility in the financial year.
E10 <sup>I</sup>	Total area of native vegetation gain due to rehabilitation, replanting and protection by the water utility	Total area of native vegetation gain due to rehabilitation, replanting and protection by the water utility in the financial year.

**a** Existing indicator I 9 in Sydney Water Reporting Manual

**b** Existing indicator I 10 in Sydney Water Reporting Manual

c Existing indicator I 11 in Sydney Water Reporting Manual

d Existing indicator I 12 in Sydney Water Reporting Manual

e Existing indicator Environment IPART E1 in Water NSW Reporting Manual

f Existing indicator E 5 in Sydney Water Reporting Manual

**9** Existing indicator E 8 in Sydney Water Reporting Manual

h Existing indicator E 9 in Sydney Water Reporting Manual

i Existing indicator E 10 (S) in Sydney Water Reporting Manual

j Current indicator E 11 in Sydney Water Reporting Manual

k Existing indicator E 12 in Sydney Water Reporting Manual

I Existing indicator E 13 in Sydney Water Reporting Manual

### Performance indicators definitions

### Property<sup>1</sup>

Means:

- a) an individual dwelling or individual premises for any purpose;
- b) land whether built on or not, which is owned by a person (whether jointly or individually);
- c) a lot in a strata plan that is registered under the Strata Schemes (Freehold Development) Act 1973 (NSW) or the Strata Schemes (Leasehold Development Act 1986 (NSW), which is:
  - i) connected to, or for which a connection is available to Sydney Water's water supply system or the sewerage system;
  - ii) within an area of land declared by an Order of the Governor to be a drainage area for the purpose of section 65 of the Act; or[Note: For the purpose of the Wastewater Overflow Standard, a Multiple Occupancy Property may be considered a Property.]
  - iii) within the Rouse Hill Stormwater Catchment Area

Biosolids means the stabilised organic solids derived from sewage treatment processes.

**Total Mass** means the quantity in dry tonnes of biosolids captured and removed from sewage treatment plants.

**Solid Waste** is any solid substance that is discarded, rejected, unwanted, in surplus or abandoned. It does not include gas, energy, water, wastewater, biosolids diverted for beneficial reuse and reuse water.

**Recycled** means the conversion of waste materials into a usable product or resource. The process of recycling includes: the diversion or extraction of the material from the waste stream; the collection and sorting of recyclable materials; and the processing of those materials into products which can then be used (or sold for use). Materials are deemed to have been recycled when they are transferred to a facility for processing or manufacturing (eg, a recycling centre). Energy recovery (or waste-to-energy) is another form of recycling, which involves recovery of latent energy rather than a physical resource.

**Re-use** is the application of a diverted waste product to a subsequent use which may be the same or different from the original purpose and which extends the life of the product, but without further manufacture. Beneficial re-use is generally taken to mean that the form of re-use delivers some benefit (economic, social or environmental).

Note: Native vegetation indicators will be an estimate based on the production of the water utility's Environmental Management Plans and documents, or triggered by Flora and Fauna studies. It will only be reported above 0.01 Hectares. The definition of Native Vegetation will be derived from the Native Vegetation Act 2003 (NV Act). The Objects of the NV Act provide guidance as to what needs to be considered when assessing whether an area will be

<sup>&</sup>lt;sup>1</sup> Sydney Water Operating Licence 2015-2020 12.1 Definitions

included in the vegetation loss figures. Note: Indicator will include works undertaken by or on behalf of the water utility on land that is not owned by the water utility, such as offsetting impacts to one area by rehabilitation or replanting at another site. This is to be reported on a financial year basis only. Planned rehabilitation or clearing works are not to be included until such time as the works are completed.

### Uncontrolled wastewater overflow<sup>2</sup>

Is a sewage overflow that is not a Controlled Wastewater Overflow and will be taken to have commenced on the earlier of the following:

- a) when a person notifies Sydney Water that a Property (which may include a Public Property) has experienced a sewage overflow which Sydney Water confirms is an uncontrolled wastewater overflow; and
- b) when Sydney Water's systems (which may include modelling undertaken by Sydney Water) identify that a Property (which may include a Public Property) has experienced an uncontrolled sewage overflow.

### Water Pressure Failure

Means a situation in which a Property experiences a pressure of less than 15 metres head of pressure for a continuous period of 15 minutes or more measured at the point of connection of the Property to Sydney Water's Drinking Water supply system, usually at the point of connection known as the 'main tap'.<sup>3</sup> A Property is taken to have experienced a Water Pressure Failure:<sup>4</sup>

- a) when a person notifies Sydney Water that the Property has experienced a Water Pressure Failure and Sydney Water confirms that the Property has experienced a Water Pressure Failure; or
- b) when Sydney Water identifies that the Property has experienced a Water Pressure Failure (including through its data collection systems and hydraulic analysis).

Despite above, a Property will not be taken to have experienced a Water Pressure Failure if that Water Pressure Failure occurred only because of:

- a) water usage in the case of a fire or other abnormal demand; or
- b) a short term or temporary operational problem (such as a main break) which is remedied within Four days of its commencement.

### **Unplanned Water Interruption**

Means an event which:<sup>5</sup>

a) commences when the supply of Drinking Water at the first cold water tap of a Property is interrupted without the Customer or Consumer having received prior notice of that interruption from Sydney Water; and

<sup>&</sup>lt;sup>2</sup> Sydney Water Operating Licence 2015-2020 12.1 Definitions

<sup>&</sup>lt;sup>3</sup> Sydney Water Operating Licence 2015-2020 12.1 Definitions

<sup>&</sup>lt;sup>4</sup> Sydney Water Operating Licence 2015-2020 4.2.1 Water Pressure Standard

<sup>&</sup>lt;sup>5</sup> Sydney Water Operating Licence 2015-2020 12.1 Definitions and Hunter Water Operating Licence 2017-2022 7.1 Definitions

b) ceases when a normal supply of Drinking Water is restored to the Property referred to in paragraph (a).

**Water Main Breaks/Leaks** refers to the trunk and reticulation components of Sydney Water's drinking water supply system between water treatment plants and a property. **Response time** is measured from when Sydney Water receives notification of a break or leak to the time Sydney Water stops the loss of water.

**Priority level 6** A high flow of water causing an immediate danger to people, property or the environment. A leak that:

- a) is to result or results in a major loss of water
- b) is to cause or causes damage to property, or
- c) c) is to pose or poses immediate danger to the environment or people.

An example of a Priority 6 leak is water gushing or spurting from the ground and resulting in a major loss of water.

**Priority level 5** A moderate flow of water representing a risk to people, property or the environment. A leak that:

- a) is to result or results in the moderate loss of water
- b) is to cause or causes service disruption to a customer or customers
- c) is to threaten or may threaten damage to property, or d) is to pose or poses a potential risk to the environment or people.

An example of a Priority 5 leak is a leak that results in a moderate loss of water. A leak classified as a Priority 5 would be running at a rate greater than the full flow of a garden tap.

**Priority level 4** A low flow of water that does not represent a risk to people, property or the environment. A leak that

- a) is to result or results in a minor loss of water
- b) is to cause or causes a limited service disruption to: customers, ie lower pressure than normal or a reported minor leak on a roadway, and
- c) is not a danger to the environment or people.

An example of a Priority 4 leak is a leak which results in a minor loss of water. A leak classified as a Priority 4 would be running at a rate less than the full flow of a garden tap. [Note: Priority level 3 breaks are those defined as creating a visible damp or wet area with no apparent flow of water. Leaks at or below Priority 3 level are not included in the above definition.]

## E Licence data

We require the information outlined in this Appendix E to identify the number of customers Sydney Water supply non-potable water.

Table E.1	Licence data - definitions
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Data number	Licence data	Definition
L8 <sup>a</sup>	Connected residential properties – recycled water supply (000s)	The number of connected residential properties receiving recycled water services from the utility during the reporting year (properties 000s).
L9 <sup>b</sup>	Connected non-residential properties – recycled water supply (000s)	The number of connected non-residential properties receiving recycled water services from the utility during the reporting year (properties 000s).

a NWI indicator C6

b NWI indicator C7

### **Definitions**

**Property**: as per performance indicators definitions.

### Connected residential properties include:6

- each apartment in a high-rise apartment complex
- each property in a department of housing unit complex
- each individual stand-alone residential property within a retirement village.

### Connected non-residential properties include:7

- commercial and municipal properties
- shopping centres
- schools, universities, and technical colleges (TAFEs),
- hospitals and nursing homes
- shopping centres with separate connections for each shop are to be counted as one nonresidential connection.

<sup>&</sup>lt;sup>6</sup> Supporting notes to NWI indicator C2, National urban water utility performance reporting framework: indicators and definitions handbook, January 2018

<sup>&</sup>lt;sup>7</sup> Supporting notes to NWI indicator C3, ibid

### F Statement of compliance template

Statement of compliance [Insert Year]

For 20\_\_/\_\_

Submitted by [*utility*]

To:

The Chief Executive Officer Independent Pricing and Regulatory Tribunal of NSW PO Box K35 Haymarket Post Shop NSW 1240

[*utility*] reports as follows:

- 1. This statement documents compliance during [*financial year*] with all obligations to which [*utility*] is subject by virtue of its operating licence.
- 2. This report has been prepared by [*utility*] with all due care and skill, including to ensure that all information provided is true and correct, in full knowledge of conditions to which [*utility*] is subject under the [*utility*]egislation].
- 3. Schedule A provides information on all obligations with which [*utility*] did not comply during [*financial year*].
- 4. Other than the information provided in Schedule A, [utility] has complied with all conditions to which it is subject.
- 5. This compliance report has been approved by the Chief Executive Officer (or equivalent) and the Chairman of the Board of Directors of [*utility*]/ Duly authorised Board Member of [*utility*].

DATE:		DATE:	
Signed		Signed	
Name:		Name:	
Designatio	on:	Designatio	on:

Schedule A	Non Com	pliances <sup>8</sup>
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Table #	List of clauses breached, including a brief description of each licence clause	<ul> <li>Describe:</li> <li>i Date or period of non-compliance</li> <li>ii Nature and extent of non-compliance (including whether and how many customers have been affected)</li> <li>iii Results of any monitoring (where applicable)</li> <li>iv Reasons for non-compliance</li> <li>v Remedial action taken</li> </ul>
		vi Actual/anticipated date of full compliance

<sup>&</sup>lt;sup>8</sup> Utilities should report only non-compliances that were identified during the reporting period.