Licence - 10555



SYDNEY WATER CORPORATION ABN 49 776 225 038 PO BOX 399 PARRAMATTA NSW 2124

Attention: Mr Michael Blackmore

Notice Number 1539159
File Number EF13/3651
Date 28-Jun-2016

NOTICE OF VARIATION OF LICENCE NO. 10555

BACKGROUND

- A. SYDNEY WATER CORPORATION ("the licensee") is the holder of Environment Protection Licence No. 10555 ("the licence") issued under the *Protection of the Environment Operations Act 1997* ("the Act"). The licence authorises the carrying out of activities at REMEMBRANCE DRIVE, PICTON, NSW, 2571 ("the premises").
- B. On 4 February 2016 the Environment Protection Authority (EPA) received an application for the variation of the licence.
- C. This application seeks to amend the licence to address inconsistencies identified by the licensee in a review of its sewage treatment system (STS) licences. These include:
 - i) the removal of the conditions regarding noise limits and offensive odour which are not included in the licensee's other STS licences; and
 - ii) the removal and replacement of the condition regarding dry weather discharges from sewage pumping stations with the standard condition which is on the licensee's other STS licences.
- D. The licensee has demonstrated through noise, odour and air quality studies undertaken in 2014 for the amplification of Picton sewage treatment plant (STP) that the plant complies with the licence noise limits and would continue to comply once amplified, and that overall odours are contained within the boundary of the premises. Additionally, the licensee employs suitable mitigation measures to manage noise and odour at the plant, and any noise and / or odour complaint is managed in accordance with Sydney Water's Customer Complaint Procedure and that these complaints are required to be reported to the EPA under the current licence. EPA records show there have been no noise complaints and a few odour complaints regarding the STP reported in the past 6 years.
- E. The EPA considers that the licensee has demonstrated that the removal of the noise and odour conditions from the licence would not lead to an increase in environmental impacts if the proposed variations are implemented. The EPA would continue to regulate any noise and odour issue through appropriate provisions in the Act and the licence.



- F. On 22 February 2016 the EPA received a second application for the variation of the licence to amend the current wording of the ancillary activities in the licence to conform to the wording of "Activities" as stated in the Act and to ensure consistency across the licensee's STS licences.
- G. On 08-Mar-2016 the Environment Protection Authority (EPA) received an application for the variation of the licence.
- H. The licensee has expanded its current irrigable land and has undertaken works to add provision to reuse recycled water from the Western dam at the premises having received approval to irrigate the expanded farmland in mid-2014.
- I. This application seeks to amend the licence to add a new discharge and monitoring point (Point 13) for irrigation from the tertiary treated Western dam to the utilisation area and other associated licence changes for Point 13 (including adding pollutant concentration limits).
- J. The licensee has also applied to remove conditions in the licence which were added to the licence (Licence Variation No. 1518840) to permit restricted use of a trial biosolids application at the premises. The licensee did not proceed with this trial and would like to be able to apply biosolids to all suitable areas of the utilisation area at the premises which will be implemented in accordance with the EPA Biosolids Guidelines.
- K. The EPA in consultation with the licensee has also made some changes to the licence to improve the clarity of the licence, most of which are administrative improvements to the licence. These include:
 - i) the addition of a new discharge point to waters (Point 14) to reflect the location where the treated precautionary effluent discharges are released from the premises to Stonequarry Creek;
 - ii) changes to conditions in the licence that relate to the addition of Point 14;
 - iii) revising the required treatment for effluent prior to discharge from identified points at the premises;
 - iv) adding conditions under the monitoring of pollutant concentrations and discharge volumes that identify which monitoring points are used to determine compliance of limits for which discharge point; and
 - v) adding the requirement to notify the EPA at condition R4.1 of any treated sewage or effluent discharge to the environment that is not in accordance with the precautionary discharge requirements at condition L4.3.
- L. The EPA has approved the following variations to the licence having due regard for the considerations of section 45 of the Act.

VARIATION OF LICENCE NO. 10555

- 1. By this notice the EPA varies licence No. 10555. The attached licence document contains all variations that are made to the licence by this notice.
- 2. The following variations have been made to the licence:

Administrative conditions

- Amending the wording of the following ancillary activities at condition A3.1 to be consistent with the POEO Act wording for these activities. These include:
 - o Chemical Storage Facilities has been changed to Chemical Storage;
 - o Composting and Related Processing or Treatment has been changed to Composting; and



o Waste Storage was added to the licence.

Discharge and monitoring points and areas conditions

- adding a new discharge point to waters (Point 14) at condition P1.3 to reflect the location where the precautionary discharges are released from the premises to Stoneguarry Creek;
- adding a new discharge, volume monitoring and effluent quality monitoring point (Point 13) at condition P1.3 for discharges from the Western dam to the recycled water utilisation area at the premises;
- clarifying the location descriptions of the points at condition P1.3;
- removal of condition P1.4 to permit biosolids application to utilisation areas suitable for biosolids application.

Limit conditions

- adding condition L1.4 which prohibits the pollution of waters during dry weather from sewage pumping stations. This condition replaces condition O5.5 on the licence;
- adding pollutant concentration limits for the two new discharge points (Points 13 and 14) at condition L3.4. Note: Point 14 replaces Point 1 as the discharge to waters point. Point 1 is the volume monitoring and effluent quality monitoring point for Point 14;
- removing reference to wet weather bypasses as they do not occur at plant and adding not applicable at condition L3.5;
- adding Point 13 to condition L3.9 to permit discharges of elevated pH to recycled water utilisation areas under certain conditions;
- replacing reference to Point 1 with Point 14 in volume limit table and adding a volume limit for Point 13 at condition L4.1;
- replacing reference to Point 1 with Point 14 and adding Point 13 at condition L4.2 regarding combined volume discharge limits;
- replacing reference to Point 1 with Point 14 at condition L4.3 regarding volume limits for precautionary discharge releases into Stonequarry Creek;
- removing noise limits at conditions L6.1 and L6.2;
- amending condition L7.7 in relation to biosolids application to utilisation areas defined in the map titled "Picton Farm Paddocks overview Map 1" issued 17 June 2014 (TRIM file no).

Operating Conditions

- removing condition O1.3 regarding offensive odours from the premises;
- revision of the required treatment processes for flows at condition O4.1;
- removing condition O5.5 regarding dry weather discharges from sewage pumping stations. This condition is replaced by condition L1.4;
- adding reference to Points 11 and 13 and removing Point 12 at condition O5.7 requiring the licensee to obtain written approval of the EPA to an alternative means of effluent disposal prior to ceasing use of the utilisation areas at these points;

Monitoring conditions



- adding the requirement to monitor concentration of pollutants discharged at Point 13 at condition M2.3;
- removing the requirement to monitor pH at Point 11 at condition M2.3;
- adding condition M2.6 to identify the monitoring points used for monitoring pollutant concentrations and determining compliance of limits for discharge points at condition L3.4;
- adding requirement to monitor volume of discharge at Point 13 at condition M8.1;
- adding condition M8.2 to identify the volume monitoring points used for monitoring effluent discharges volumes and determining compliance of limits for discharge points at condition L4.1

Reporting conditions

adding the requirement to notify the EPA at condition R4.1 of any incident where any treated
effluent or sewage discharge released to the environment is not in accordance with the
precautionary discharge requirements at condition L4.3.

Shelley Nancarrow

Acting Unit Head

Metropolitan Infrastructure
(by Delegation)

INFORMATION ABOUT THIS NOTICE

- This notice is issued under section 58(5) of the Act.
- Details provided in this notice, along with an updated version of the licence, will be available on the EPA's Public Register (http://www.epa.nsw.gov.au/prpoeo/index.htm) in accordance with section 308 of the Act.

Appeals against this decision

 You can appeal to the Land and Environment Court against this decision. The deadline for lodging the appeal is 21 days after you were given notice of this decision.

When this notice begins to operate

• The variations to the licence specified in this notice begin to operate immediately from the date of this notice, unless another date is specified in this notice.



• If an appeal is made against this decision to vary the licence and the Land and Environment Court directs that the decision is stayed the decision does not operate until the stay ceases to have effect or the Land and Environment Court confirms the decision or the appeal is withdrawn (whichever occurs first).

Licence - 10555



Licence Details		
Number:	10555	
Anniversary Date:	01-July	

Licensee

SYDNEY WATER CORPORATION

PO BOX 399

PARRAMATTA NSW 2124

Premises

PICTON SEWAGE TREATMENT SYSTEM INCLUDING STP

REMEMBRANCE DRIVE

PICTON NSW 2571

Scheduled Activity

Sewage treatment

Fee Based Activity	<u>Scale</u>
Sewage treatment processing by small plants	> 1000-5000 ML annual maximum volume of discharge

Region
Metropolitan Infrastructure
Level 13, 10 Valentine Ave
PARRAMATTA NSW 2150
Phone: (02) 9995 5000
Fax: (02) 9995 6900
PO Box 668 PARRAMATTA
NSW 2124





INF	DRMATION ABOUT THIS LICENCE	4
Dic	etionary	4
Re	sponsibilities of licensee	4
Va	riation of licence conditions	4
Du	ration of licence	4
Lic	ence review	4
Fee	es and annual return to be sent to the EPA	4
Tra	nsfer of licence	5
Pul	blic register and access to monitoring data	5
1	ADMINISTRATIVE CONDITIONS	6
A1	What the licence authorises and regulates	6
A2	Premises or plant to which this licence applies	6
А3	Other activities	7
A4	Information supplied to the EPA	7
2	DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1	Location of monitoring/discharge points and areas	7
3	LIMIT CONDITIONS	8
L1	Pollution of waters	8
L2	Load limits	8
 L3	Concentration limits	9
L4	Volume and mass limits	11
L5	Waste	12
L6	Noise limits	
L7	Other limit conditions	
4	OPERATING CONDITIONS	13
01	Activities must be carried out in a competent manner	13
02		14
О3		14
04	Processes and management	14
O5		15
5	MONITORING AND RECORDING CONDITIONS	16
M1	Monitoring records	16
M2	Requirement to monitor concentration of pollutants discharged	16
МЗ		18



Licence - 10555

M4	Testing methods - load limits	19
M5	Environmental monitoring	19
M6	Recording of pollution complaints	20
M7	Telephone complaints line	20
M8	Requirement to monitor volume or mass	20
M9	Requirement to record bypass incidents from sewage treatment plants	21
M10	Other monitoring and recording conditions	21
6 I	REPORTING CONDITIONS	22
R1	Annual return documents	22
R2	Notification of environmental harm	23
R3	Written report	23
R4	Other notifications	24
R5	Annual system performance report	24
7 (GENERAL CONDITIONS	26
G1	Copy of licence kept at the premises or plant	26
G2	Contact number for incidents and responsible employees	27
G3	Signage	27
8 \$	SPECIAL CONDITIONS	27
E1	Special Dictionary	27
DICT	TONARY	30
Gen	neral Dictionary	30

Licence - 10555



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 132 of the Act):
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Licence - 10555



The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SYDNEY WATER CORPORATION
PO BOX 399
PARRAMATTA NSW 2124

subject to the conditions which follow.

Licence - 10555



1 Administrative Conditions

A1 What the licence authorises and regulates

- A1.1 This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2: Not applicable.
- A1.2 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Sewage treatment	Sewage treatment processing by small plants	> 1000 - 5000 ML annual maximum volume of discharge

A1.3 Not applicable.

A1.4 The objectives of this licence are to:

- a) require practical measures to be taken to protect the environment and public health from sewage treatment plant effluent and sewer overflows;
- b) require proper and efficient management of the sewage treatment system to minimise harm to the environment and public health;
- c) require no deterioration and continuing improvement in the sewage treatment system environmental performance relative to existing conditions; and
- d) minimise the frequency and volume of overflows and sewage treatment plant bypasses.
- A1.5 This licence is to be construed in a manner that will promote the objectives referred to in A1.4.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
PICTON SEWAGE TREATMENT SYSTEM INCLUDING STP AT
REMEMBRANCE DRIVE
PICTON
NSW 2571
LOT 52 DP 251857, LOT 53 DP 251857, LOT 54 DP 251857, LOT 55 DP 251857, LOT 56 DP 251857, LOT 1 DP 583248, LOT 2 DP 583248, LOT 1 DP 778862, LOT 2 DP 778862, LOT 1 DP 818863, LOT 2 DP 818863, LOT 1 DP 865604, LOT 57 DP 979250, LOT 58 DP 979250, LOT 59 DP 979250, LOT 60 DP 979250, LOT 61 DP 979250, LOT 62 DP 979250, LOT 2 DP 1042285

Licence - 10555



A2.2 The premises also includes the reticulation system owned and operated by the licensee that is associated with the sewage treatment plant(s) identified in condition A2.1.

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity		
Chemical Storage		
Composting		
Waste Storage		

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 Air monitoring points not applicable.
- P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.
- P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identi-	Type of Monitoring Point	Type of Discharge Point	Location Description
fication no.			

Licence - 10555



1	Volume monitoring Effluent quality monitoring		Precautionary Discharge. Outlet of Effluent Buffer Tank at the Western Dam marked Point 1 on "Map 1 Picton Farm" dated 6 April 2016
10	Volume Monitoring		Stonequarry Creek Flow measurement point. Sydney Water Point 911 (downstream of Point 2) marked Point 10 on "Map 1 Picton Farm" dated 6 April 2016
11	Volume monitoring Effluent quality monitoring Discharge to recycled water utilisation area	Volume monitoring Effluent quality monitoring Discharge to recycled water utilisation area	Recycled Water. Outlet of Eastern Dam marked Point 11 on "Map 1 Picton Farm" dated 6 April 2016
12		Discharge to treatment plant utilisation area	Internal Reuse. Outlet of Western Dam marked Point 12 on "Map 1 Picton Farm" dated 6 April 2016
13	Volume monitoring Effluent quality monitoring Discharge to recycled water utilisation area	Volume monitoring Effluent quality monitoring Discharge to recycled water utilisation area	Recycled Water. Outlet of Western Dam marked Point 13 on "Map 1 Picton Farm" dated 6 April 2016
14		Discharge to waters	Precautionary Discharge point to Stonequarry Creek marked Point 2 on "Map 1 Picton Farm" dated 6 April 2016

3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.
- L1.2 Subject to the conditions of this licence, sewage must not be discharged from the components of the reticulation system except from those components identified on the system map.
- L1.3 Notwithstanding the provisions of the condition above, this licence does not permit the pollution of waters at any time during dry weather from:
 - a) uncontrolled overflows, or
 - b) directed overflows other than from sewage pumping stations,

if a cause of the pollution is failure to:

- i) operate any part of the reticulation system in a proper and efficient manner; or
- ii) maintain any part of the reticulation system in a proper and efficient condition.
- L1.4 This licence does not permit the pollution of water at any time during dry weather from any pumping station. This condition is effective from 1 July 2006.

L2 Load limits

L2.1 The actual load of an assessable pollutant discharged from the premises during the reporting period must

Licence - 10555



not exceed the load limit specified for the assessable pollutant in the table below.

Note: An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

L2.2 The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.

Assessable Pollutant	Load limit (kg)
BOD (Enclosed Water)	730.00
Nitrogen (total) (Enclosed Water)	1460.00
Oil and Grease (Enclosed Water)	292.00
Phosphorus (total) (Enclosed Water)	73.00
Total suspended solids (Enclosed Water)	730.00

- L2.3 For the purposes of condition L2.1 only, premises means the sewage treatment plant(s) referred to in condition A2.1 of this licence.
- L2.4 For the purposes of condition L2.2 and M1.1 the relevant load calculation protocol is the methodology detailed in the document titled "Development of Load Calculation Method and Trial Calculation" (June 2003) approved by the EPA in September 2003 and any subsequent amendments approved by the EPA in writing.

L3 Concentration limits

- L3.1 For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L3.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L3.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.
- L3.4 Water and/or Land Concentration Limits

POINT 11

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Biochemical oxygen demand	milligrams per litre	10	15	-	-

Licence - 10555



Faecal Coliforms	colony forming units per 100 millilitres	2000	10000	-	-
Nitrogen (ammonia)	milligrams per litre	2	5	-	-
Nitrogen (total)	milligrams per litre	10	15	-	-
рН	рН	6.5-9.5	-	-	-
Phosphorus (total)	milligrams per litre	8	9	-	-
Total suspended solids	milligrams per litre	120	480	-	-

POINT 13

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
BOD	milligrams per litre	7	10	-	-
Faecal Coliforms	colony forming units per 100 millilitres	-	200*	-	-
Nitrogen (ammonia)	milligrams per litre	0.5	1	-	-
Nitrogen (total)	milligrams per litre	6	10	-	-
рН	рН	6.5-9.5	-	-	-
Phosphorus (total)	milligrams per litre	0.2	0.4	-	-
Total suspended solids	milligrams per litre	7	15	-	-

POINT 14

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
BOD	milligrams per litre	7	10	-	-

Licence - 10555



Faecal Coliforms	colony forming units per 100 millilitres	-	200*	-	-
Nitrogen (ammonia)	milligrams per litre	0.5	1	-	-
Nitrogen (total)	milligrams per litre	6	10	-	-
Phosphorus (total)	milligrams per litre	0.2	0.4	-	-
Total suspended solids	milligrams per litre	7	15	-	-

Note: The faecal coliforms concentration limit marked by an asterix in the above table is to be interpreted as an 80% concentration limit for the purpose of assessing compliance with this condition.

- L3.5 Not applicable.
- L3.6 Not applicable.

L3.7 Toxicity limits

Not applicable.

- L3.8 In the case of a pollutant which is subject to a 3DGM limit, only the samples collected on the first day of the 3DGM sampling are to be used for the calculation of the percentile.
- L3.9 Notwithstanding condition L3.2 above, when the pH of the effluent discharged at Point 11 and Point 13 is elevated due to algal problems in the irrigation dam:
 - a) application of effluent to the irrigation utilisation area may continue to be undertaken; and
 - b) exceedance of the upper value of the 50 percentile concentration limit for pH is permitted where algae in the dam was the sole cause of the exceedance.

L4 Volume and mass limits

- L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
 - a) liquids discharged to water; or;
 - b) solids or liquids applied to the area;

must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
11	kilolitres per day	14000
13	kilolitres per day	14000
14	kilolitres per day	14000

Licence - 10555



- L4.2 Notwithstanding the volume limits specified in condition L4.1, the combined volume discharged from point(s) 11, 13 and 14 must not exceed 14000 kL/day.
- L4.3 In addition to the volume/mass limit imposed at Point 14 by condition L4.1, the following volume/mass limits apply at Point 14 for precautionary discharges to Stonequarry Creek:
 - a) 0 kilolitres per day, when creek flow at Point 10 is less than or equal to 8,000 kilolitres per day;
 - b) 25% of creek flow at Point 10, when creek flow at Point 10 is greater that 8,000 kilolitres per day.

L5 Waste

- L5.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.
- L5.2 This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if those activities require an environment protection licence.
- L5.3 The licensee may receive and/or transfer sewage generated outside the premises for treatment, processing or reprocessing at the premises. The licensee must take reasonable steps to ensure that sewage received at the premises has been lawfully discharged in accordance with a trade waste agreement or customer contract (as applicable) in force between the licensee and the generator of the waste. The licensee must treat, process or reprocess the sewage in accordance with this licence prior to discharge from the premises.
- L5.4 The licensee may receive, store, treat, process or reprocess and/or transfer at the premises sewage products generated or stored outside the premises by the licensee's other sewage treatment systems. Sewage products must be received, treated, processed or reprocessed in accordance with this licence.

L6 Noise limits

L6.1 Not applicable.

L7 Other limit conditions

L7.1 Hydraulic Sewer System Model

- a) The licensee must maintain a hydraulic sewer system model which has no temporal or magnitude bias in either flow volume or water levels at the licence gauges as referenced in the document titled "PRP101.1 System Model Performance Indicators, September 2000" and subsequent modifications made by the Criteria Review Committee.
- b) The licensee must undertake an annual Quality System audit of the hydraulic sewer system model to determine if the model used during that reporting period meets the standards set out in condition L7.1(a).
- c) The licensee must prepare a written report on each Quality System audit of any model used to assess sewage system wet weather overflow performance for the purpose of determining

Licence - 10555



- compliance with this licence. The report must also include the Pearson's correlation coefficient for the model used during the reporting period.
- d) The licensee must provide a written report with each Annual Return on any Quality System audit of the hydraulic sewer system model stating the methodology and results of the audit.
- e) The licensee must convene an Independent Criteria Review Committee at least once every three Reporting Periods to review the methodology and findings of each of the Quality System audits.
- f) The licensee must ensure that the Independent Criteria Review Committee prepares a written report on the review required by condition L7.1(e).
- g) The licensee must submit to the EPA a copy of each Independent Criteria Review Committee report received by the licensee in a particular Reporting Period with the following Annual Sewage Treatment System Performance Report required by condition R5 of this licence.

L7.2 Wet weather overflow limits

Not applicable.

L7.3 Not applicable.

L7.4 Dry weather overflow limits

Not applicable.

L7.5 Utilisation Areas

Liquids must only be applied to liquids utilisation areas for which a discharge point or area has been identified in P1 of this licence.

- L7.6 Spray from liquids application must not drift beyond the boundary of the utilisation area to which it is applied.
- L7.7 Biosolids must only be applied to utilisation areas as defined in the map titled "Map 1 Picton Farm" dated 6 April 2016.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity: and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.
- O1.2 Biosolids at the premises must be stored, treated, processed, classified, transported and disposed in accordance with the Biosolids Guidelines, or as otherwise approved in writing by the EPA.

Licence - 10555



O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
 - a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.

O3 Emergency response

O3.1 In the event of an overflow from the reticulation system or a bypass from a sewage treatment plant that harms or is likely to harm the environment or present a significant public health risk, the licensee must take all reasonable and feasible actions as soon as practicable to minimise the impact of the overflow or bypass on the environment and public health.

For the avoidance of doubt, the requirements of this condition are in addition to any measures required to be implemented in accordance with the Pollution Incident Response Management Plan required to be prepared and implemented under Part 5.7A of the Protection of the Environment Operations Act 1997.

O4 Processes and management

O4.1 Appropriate Treatment Processes

Sewage or effluent must not be discharged from points 11, 13 and 14 unless it has been treated in accordance with the requirements of the table below.

Required treatment process	Flow range
Screening, biological treatment, filtration and disinfection (full tertiary treatment)	All flows to the Western Dam which discharge to utilisation area (Point 13) or to Stonequarry Creek (Point 14)
Screening, biological treatment (secondary treatment)	All flows to the Eastern dam which discharge to utilisation area (Point 11)

- O4.2 Not applicable.
- O4.3 Not applicable.
- O4.4 Not applicable.
- O4.5 Not applicable.
- O4.6 Not applicable.
- O4.7 Level of reticulation system management, operations and maintenance activities

Not applicable.

Licence - 10555



O4.8 Not applicable.

O4.9 Exceedance of design capacity of primary disinfection processes

Not applicable.

O5 Other operating conditions

O5.1 Prohibition on acceptance of pesticides

The licensee must not consent to any discharge of organophosphate pesticides (including chlorpyrifos, diazinon, malathion) or organochlorine pesticides (including dieldrin, heptachlor and chlordane) into the sewage treatment system.

- O5.2 Not applicable.
- O5.3 Not applicable.
- O5.4 Not applicable.
- O5.5 Not Applicable.

O5.6 Management of Utilisation Area

The quantity of effluent/solids applied to the utilisation area must not exceed the capacity of the area to effectively utilise the effluent/solids.

Note: For the purpose of this condition, 'effectively utilise' includes the use of the effluent/solids for pasture or crop production, as well as the ability of the soil to absorb the nutrient, salt, hydraulic load and organic material.

O5.7 Effluent application

- a) Effluent application must not occur in a manner that causes surface runoff.
- b) Spray from effluent application must not drift beyond the boundary of the premises.
- c) Livestock access to any effluent application area must be denied during effluent application and until the applied effluent area has dried.
- d) All effluent application operations and activities occurring at the premises must be carried out in a manner that will minimise dust at the boundary of the utilisation area.
- e) The licensee must not cease to use the utilisation area (Points 11 and 13 in this licence) without the prior written approval of the EPA to an alternative means of disposal of the effluent. Any such written approval is intended to be effected for the purposes of this condition by variation of this licence.
- f) Effluent liquid waste pipelines and fittings must be clearly identified. Standard watertaps, hoses and valves must not be fitted to the pipelines of the effluent system. The effluent system must not be connected to other pipelines. Lockable valves or removable handles must be used where there is public access to the effluent.
- g) Public access to any effluent utilisation area must be denied during effluent application and until the effluent application area has dried.

Licence - 10555



- h) Adequate notices, warning the public not to drink or otherwise use the treated effluent, must be erected on the site. These notices must be legible English and in any other languages as may be necessary, and must indicate at least that the water in use is "Reclaimed Water Unfit for Drinking".
- i) Pasture or fodder crops must not be harvested before the effluent utilisation area has dried.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
 - a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
 - a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M1.4 Registers

The licensee must maintain and make available for inspection by the public, at the licensee's Head Office, registers recording the following information, for the sewage treatment system:

- a) a map or maps of the sewage treatment system showing:
 - i) the location of the sewage treatment plant or plants, sewage pumping stations, directed overflow structures, pipes and access chambers in the sewage treatment system, referenced by the licensee's identifier and the EPA point identification number, as applicable;
 - ii) the catchments, sub-catchments and sensitive areas relevant to the sewage treatment system;
- b) the number of chokes within the system reported to the licensee during each reporting period;
- c) a schedule of proposed works to be carried out in relation to the premises during each reporting period;
- d) the works completed in relation to the premises during each reporting period; and
- e) the complaints by type recorded under M7 during each reporting period.
- M1.5 Changes to the system map must be recorded by reference to the date of the change, description of the change and the name of the person authorising the change.

M2 Requirement to monitor concentration of pollutants discharged

Licence - 10555



- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:
- M2.2 Not applicable.
- M2.3 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Special Frequency 1	Grab sample
Faecal Coliforms	colony forming units per 100 millilitres	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (total)	milligrams per litre	Special Frequency 1	Grab sample
Phosphorus (total)	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

POINT 11

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Special Frequency 2	Grab sample
Faecal Coliforms	colony forming units per 100 millilitres	Special Frequency 2	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 2	Grab sample
Nitrogen (total)	milligrams per litre	Special Frequency 2	Grab sample
Phosphorus (total)	milligrams per litre	Special Frequency 2	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample

POINT 13

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Special Frequency 2	Grab sample
Faecal Coliforms	colony forming units per 100 millilitres	Special Frequency 2	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 2	Grab sample
Nitrogen (total)	milligrams per litre	Special Frequency 2	Grab sample
Phosphorus (total)	milligrams per litre	Special Frequency 2	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample

Licence - 10555



M2.4 For the purposes of the tables above:

- a) Special Frequency 1 means daily during the occurrence of any discharge longer than 2 hours during normal working hours.
- b) Special Frequency 2 means every 6 days when the irrigation system is operating at the time of sampling.
- M2.5 Not applicable.
- M2.6 The monitoring results collected in accordance with condition M2 for:
 - a) Point 1 can be used to determine compliance with the limits in condition L3.4 for Point 14;
 - b) Point 11 can be used to determine compliance with the limits in condition L3.4 for Point 11; and
 - c) Point 13 can be used to determine compliance with the limits in condition L3.4 for Point 13.
- M2.7 Subject to M2.8, where the licensee is unable to carry out any sampling required under condition M2 at the required frequency or interval or both because of a circumstance set out in column 1 of the Table below, the licensee is taken to have carried out the sampling at the required frequency or interval or both, as the case may be, if the licensee collects the required sample within the corresponding timeframe in column 2 of the Table.

No.	Column 1	Column 2
1	The unforeseen loss of power supply to the essential monitoring equipment that cannot be rectified by the reasonable provision and operation of standby generators	Within 48 hours of power being restored to the premises
2	The inability of the licensee to access or safely access the monitoring site or equipment due to tidal or fluvial flooding	As soon as practicable once flooding has ceased or abated
3	The failure or malfunction of essential monitoring equipment caused by tidal or fluvial flooding	Within 48 hours after failure or malfunction of essential monitoring equipment has ceased

- M2.8 The licensee must collect and analyse the required number of samples for the reporting period as specified in conditions M2.3 M2.5 above.
- M2.9 The licensee must keep records of all circumstances listed in column 1 of the Table in condition M2.7 which triggered sample collection in accordance with column 2 of the same Table, including information that can demonstrate that the circumstances in column 1 applied and that the sampling was carried out in accordance with the timeframe prescribed in column 2 of that Table. The licensee must keep these records for a period of 5 years after the end of the reporting period in which the circumstances occurred.
- M2.10 The record must be produced to any authorised officer of the EPA who requests to see them.

M3 Testing methods - concentration limits

M3.1 Not applicable.

Licence - 10555



- M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.
- M3.3 The requirements of condition M3.2 also apply to the monitoring of the concentration of pollutants in waters.

M4 Testing methods - load limits

Note: Division 3 of the *Protection of the Environment Operations (General) Regulation 2009* requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.

M5 Environmental monitoring

- M5.1 Sewage Treatment System Impact Monitoring Program
 - a) The licensee must undertake the monitoring programs detailed in the Sydney Water publication "Sewage Treatment System Impact Monitoring Program, December 2010", or in any replacement document approved in writing by the EPA.
 - b) The licensee must maintain a database of the results obtained in undertaking monitoring programs specified in the document cited above. Information from the database must be made available to any authorised officer of the EPA on request.
 - c) The licensee must provide to the EPA the reports specified in the document cited above.
 - d) The "Sewage Treatment System Impact Monitoring Program (STSIMP): Annual Data Report" specified in the document cited above must be submitted not later than 31 October in each year where the "STSIMP: Interpretive Report" is not required.
 - e) The "STSIMP: Interpretive Report" specified in the document cited above must be submitted not later than 31 December every fourth year.
 - f) For the purposes of conditions e) above, the next "STSIMP: Interpretative Report" following the 31 December 2014 report must be submitted not later than 31 December 2016 and thereafter every fourth year.

Note: Copies of reports relating to the Sewage Treatment System Impact Monitoring Program can be found at

http://www.sydneywater.com.au/SW/water-the-environment/how-we-manage-sydney-s-water/waterquality/stsimp-reports/index.htm

Licence - 10555



M6 Recording of pollution complaints

- M6.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M6.2 The record must include details of the following:
 - a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M6.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M6.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M7 Telephone complaints line

- M7.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M7.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M7.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.
- M7.4 For the purpose of this condition, operating hours are defined as twenty four hours a day, seven days a week.

M8 Requirement to monitor volume or mass

- M8.1 For each discharge point or utilisation area specified below, the licensee must monitor:
 - a) the volume of liquids discharged to water or applied to the area;
 - b) the mass of solids applied to the area;
 - c) the mass of pollutants emitted to the air;
 - at the frequency and using the method and units of measure, specified below.

POINT 1

Frequency	Unit of Measure	Sampling Method
Continuous	kilolitres per day	Electronic level sensor and continuous logger

Licence - 10555



POINT 10

Frequency	Unit of Measure	Sampling Method
Continuous	kilolitres per day	Electronic level sensor and continuous logger

POINT 11

Frequency	Unit of Measure	Sampling Method
Continuous	kilolitres per day	Electronic level sensor and continuous logger

POINT 13

Frequency	Unit of Measure	Sampling Method
Continuous	kilolitres per day	Electronic level sensor and continuous
		logger

- M8.2 The monitoring results collected in accordance with condition M8.1 for:
 - a) Point 1 can be used to determine compliance with the limits in condition L4.1 for Point 14.
 - b) Point 11 can be used to determine compliance with the limits in condition L4.1 for Point 11.
 - c) Point 13 can be used to determine compliance with the limits in condition L4.1 for Point 13.
 - d) Points 1 and 10 can be used to determine compliance with the limits in condition L4.3 for Points 14 and 10.
- M8.3 In the event that the licensee cannot comply with a volume monitoring method as required by this licence solely due to the failure or malfunction of essential monitoring equipment, volume may be calculated using another agreed method approved in writing by the EPA. This provision only applies for the duration of the failure or malfunction and the licensee is to rectify the failure or malfunction as soon as practical.

M9 Requirement to record bypass incidents from sewage treatment plants

- M9.1 The licensee must record the following details in relation to each bypass from the premises:
 - a) the EPA point identification number through which the bypass discharged;
 - b) the start time, date and duration of the bypass;
 - c) the estimated volume of the bypass;
 - d) the level of treatment at the sewage treatment plant prior to discharge;
 - e) classification as a dry or wet weather bypass;
 - f) the most likely cause of the bypass; and
 - g) the name or names of the treatment process or processes bypassed.
- M9.2 A dry weather bypass is a bypass that occurs when the inflow rates of sewage to the sewage treatment plant does not exceed 35 L/s and a wet weather bypass occurs when this flow is equalled or exceeded.

M10 Other monitoring and recording conditions

M10.1 Continuation of Monitoring Programs

Not applicable.

Licence - 10555



M10.2 Biosolids

Biosolids at the premises must be recorded, monitored and classified in accordance with the Biosolids Guidelines, or as otherwise approved in writing by the EPA.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
 - 1. a Statement of Compliance,
 - 2. a Monitoring and Complaints Summary,
 - 3. a Statement of Compliance Licence Conditions,
 - 4. a Statement of Compliance Load based Fee,
 - 5. a Statement of Compliance Requirement to Prepare Pollution Incident Response Management Plan,
 - 6. a Statement of Compliance Requirement to Publish Pollution Monitoring Data,
 - 7. a Statement of Compliance Environmental Management Systems and Practices; and
 - 8. a Statement of Compliance Environmental Improvement Works.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
 - a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- Note: An application to transfer a licence must be made in the approved form for this purpose.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
 - a) in relation to the surrender of a licence the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

Licence - 10555



- R1.6 Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify:
 - a) the assessable pollutants for which the actual load could not be calculated; and
 - b) the relevant circumstances that were beyond the control of the licensee.
- R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.8 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
 - a) the licence holder; or
 - b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R2 Notification of environmental harm

- Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.
- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
 - a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
 - and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
 - a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any

Licence - 10555



complainants;

- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.
- R3.5 For the purposes of this condition, the definition of event in the Special Dictionary does not apply.

R4 Other notifications

- R4.1 a) Notwithstanding notification requirements under condition R2, the licensee must notify the EPA of incidents where sewage or effluent has been discharged to, or is reasonably expected to be discharged to waterways in the following circumstances:
 - i. a dry weather sewage overflow from a sewage pumping station;
 - ii. sewage or effluent not treated at the sewage treatment plant in accordance with the requirements of conditions O4.1 O4.6; or
 - iii. any treated sewage or effluent discharge released to the environment that is not in accordance with the precautionary discharge requirements at condition L4.3.
 - b) Notifications must be made to the EPA by contacting the Environment Line as soon as practicable after the licensee becomes aware of the incident.
 - c) The notification should include the relevant information as per s150 of the Protection of Environment Operations Act.
 - d) Where an incident has been reported under condition R2 there is no requirement to report it under condition R4 in addition to the report made under condition R2.
- Note: Notifications must be made to the other agencies such as Beachwatch, National Parks and NSW Food Authority, where relevant. The requirements for such notifications must be included in Pollution Incident Response Management Plans.
- Note: The reporting requirements in condition R4 do not replace any other reporting requirements in the licence or under the Protection of the Environment Operations Act 1997.

R5 Annual system performance report

- R5.1 The licensee must supply to the EPA an Annual Sewage Treatment System Performance Report not later than 60 days after the end of each reporting period.
- R5.2 The Annual Sewage Treatment System Performance Report is to supplement the Annual Return and must report but not be limited to the following components:

R5.3 Effluent discharged

- a) The percentile values calculated from the monitoring data for each pollutant which has corresponding limits.
- b) The annual load of all assessable pollutants.
- c) An analysis of the sewage treatment plant performance against the concentration, toxicity and load

Environment Protection Authority - NSW Licence version date: 28-Jun-2016

Licence - 10555



- limits specified in the licence.
- d) An assessment of the current year's sewage treatment plant performance against the previous five year's performance. The assessment must include but not be limited to an explanation of any observed trends in the sewage treatment plant performance, and the reason for such trends.
- e) The load of Phosphorous (total) and Nitrogen (total) discharged from the sewage treatment plant expressed as a percentage of the total load of Phosphorous (total) and Nitrogen (total) directly discharged from all Sydney Water sewage treatment systems to the Hawkesbury-Nepean.
- f) The total volume discharged from the sewage treatment plant, and the average volume discharged from the sewage treatment plant during dry weather.
- g) The total volume and percentage volume of effluent recycled.
- h) i) The total number of sewage treatment plant bypasses and the total volume discharged that did not receive required treatment during:
 - AA) dry weather; and
 - BB) wet weather
 - ii) A summary report of all bypass events which includes, but is not limited to, the following: classification as a dry or wet weather bypass, duration, volume discharged, volume treated, receiving waters, cause, treatment process(es) bypassed and any action(s) taken

R5.4 Biosolids

Reporting requirements in accordance with the Biosolids Guidelines

R5.5 Reticulation System

- a) Dry weather leakages:
 - i) monitoring results from each SCAMP;
 - ii) outcomes of any investigations; and
 - iii) details of rectification action taken.
- b) Dry weather overflows from chokes and sewage pumping stations:
 - i) including;
 - AA) number of dry weather overflows to waterways, for the whole system and for each SCAMP;
 - BB) total number of dry weather overflows, for the whole system and for each SCAMP;
 - CC) total number of dry weather overflows per 100km for whole system;
 - DD) the name of each sewage treatment system which exceeded the dry weather overflow limit at condition L7.4; and
 - EE) the name of each SCAMP where the number of dry weather overflows reaching waterways in a SCAMP exceeds the target for that SCAMP specified in the SCAMP table below.
 - ii) comparison of the dry weather overflow performance against the previous four twelve month periods for dry weather overflows to waterways and total dry weather overflows.
- c) Where the dry weather overflow sewage treatment system limit at condition L7.4 and/or target in the SCAMP table below was exceeded during the reporting period, the licensee must provide a report to the EPA no later than 30 September each year explaining the reason for the exceedance, which should include but not be limited to:
 - i) an analysis of the exceedances of limit(s) and / or target(s), including the determination of any long-term trends and evaluation of dry weather overflow abatement programs implemented by the licensee;
 - ii) the details of any dry weather overflow abatement investigations, works and activities that were scheduled to be undertaken during the reporting period and which were completed;

Licence - 10555



- iii) the details of any dry weather overflow abatement investigations, works and activities that were scheduled to be undertaken during the reporting period and which were not undertaken or not completed;
- iv) the details of any dry weather overflow abatement investigations, works and activities the licensee will undertake in subsequent reporting periods to minimise the likelihood of the limit(s) and / or target(s) being exceeded in any future reporting period, including the timeframes for those actions to be implemented and the level of prioritisation given to each sewage treatment system and / or SCAMP; and
- v) an assessment of whether any amendment to the dry weather overflow abatement investigations, works and activities scheduled for the remaining reporting periods to 30 June 2015 is required to achieve the dry weather overflow limits and / or targets at condition L7.4 and in the SCAMP table below.

SCAMP table

SCAMP Name	Dry Weather Overflows Reaching Waterways per Annum
S_PICTON	1

R5.6 Wet weather overflow abatement

Not applicable.

R5.7 Complaints and reports

A breakdown of the total number of complaints and reports received by the licensee in relation to the premises into categories of "odours", "water pollution – sewage treatment plant", "water pollution – reticulation system", and any other category indicated by the complaint/report. A brief description of any significant unresolved issues arising out of the complaints and reports must be provided.

R5.8 The Annual Sewage Treatment System Performance Report must be presented in a format approved in writing by the EPA.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Licence - 10555



G2 Contact number for incidents and responsible employees

- G2.1 The licensee must operate 24-hour telephone contact lines for the purpose of enabling the EPA to directly contact one or more representatives of the licensee who can:
 - a) respond at all times to incidents relating to the premises; and
 - b) contact the licensee's senior employees or agents authorised at all times to:
 - i) speak on behalf of the licensee; and
 - ii) provide any information or document required under this licence.
- G2.2 The licensee is to inform the EPA in writing of the appointment of any contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.

G3 Signage

G3.1 The location of EPA point number(s) listed in tables P1.1, P1.2 & P1.3 must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.

8 Special Conditions

E1 Special Dictionary

E1.1

Term	Definition
approved	Means approved in writing by the EPA. The EPA's approval may be given unconditionally, or subject to conditions.
average concentration limit	Means the average of twelve monitoring test results undertaken during the reporting period.
average dry weather flow (ADWF)	Means the average flow at a point calculated or measured over a 24 hour period in dry weather.
Biosolids	Has the same meaning as in Schedule 1, Part 3 of the Protection of the Environment Operations Act 1997.
Biosolids Guidelines	Means the "Environmental Guidelines: Use and disposal of biosolids products" published by the EPA November 1997, or any subsequently updated guidelines which replace this publication.
Bypass	Means circumstances where sewage has been received at the sewage treatment plant but is discharged from the plant without it being treated, processed or reprocessed by means of any or all of the designed treatment processes of the plant. A new bypass event is defined as a bypass that commences at least 24 hours after the end of the previous bypass.
catchment	Catchment boundaries are marked on the system map.
cfu	Means colony forming units.

Licence - 10555



choke	Means a full or partial blockage in a sewer pipe that results in sewage being discharged to the environment. A choke may be caused by structural collapse of the sewer pipes, tree roots, debris or siltation.
condition	Means a condition of this licence.
directed overflow	Means a directed overflow structure within the reticulation system.
directed overflow structure	Means a designed structure (excluding access chambers) in the reticulation system which operates as a relief to allow sewage to discharge at a planned location or a sewage pumping station, but does not include a bypass from a sewage treatment plant.
dry weather	Dry weather occurs when less than 10 millimitres of rainfall has been measured at a rain gauge in the catchment of the sewage treatment system during a 24 hour period (where there is no rain gauge in the catchment, at the rain gauge closest to the centre
	of the catchment). Dry weather SPS discharge occurs when less than 10mm rainfall has been measured at a rain gauge in the catchment of the SPS during a 24 hour period (where there is no rain gauge in the catchment at the rain gauge closest to the SPS).
dry weather overflow	Means an overflow in the reticulation system not caused by wet weather, as determined by the hydraulic sewer system model.
effluent	Means sewage that has received all of the designed treatment processes at the sewage treatment plant.
emission factor	In relation to load-based licensing, means the level of emissions expected to be generated relative to another characteristic of the activity.
harm	Has the same meaning as in the Protection of the Environment Operations Act 1997.
kL	Means kilolitre.
L/s	Means litres per second.
leakage	Overflows caused by the exfiltration of sewage from faults, such as cracks, in sewer pipes to the surrounding environment.
licence issue date	Means the date of the issue of this licence, or if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.
mL	Means millilitres.
ML ML	Means millilitres. Means megalitres.
ML	Means megalitres. Is a point in the hydraulic sewer system model that represents one or more
ML node	Means megalitres. Is a point in the hydraulic sewer system model that represents one or more overflows in the same catchment. Has the same meaning as in the Protection of the
ML node offensive odour	Means megalitres. Is a point in the hydraulic sewer system model that represents one or more overflows in the same catchment. Has the same meaning as in the Protection of the Environment Operations Act 1997. Is a discharge of untreated or partially treated sewage from the sewage treatment system. Overflows may occur as directed overflows or uncontrolled
ML node offensive odour overflow	Means megalitres. Is a point in the hydraulic sewer system model that represents one or more overflows in the same catchment. Has the same meaning as in the Protection of the Environment Operations Act 1997. Is a discharge of untreated or partially treated sewage from the sewage treatment system. Overflows may occur as directed overflows or uncontrolled overflows. Means a discharge of sewage or effluent from an STP that occurs when the flow rate of sewage at the influent point of the STP equals or exceeds the rate

Licence - 10555



performance acceptance criteria	In relation to hydraulic sewer stem model, means the standard of accuracy (sometimes called the "goodness of fit") to be achieved when observations of a particular performance indicator are compared to the results predicted by the model.
reticulation system	Means that part of the sewage treatment system which collects and transports sewage to the sewage treatment plant and includes all sewer pipes (whether greater or less than 300mm diameter), access chambers, vent shafts, directed overflow structures and sewage pumping stations, but does not include the sewage treatment plant.
SCAMP	Sewer Catchment Asset Management Plan.
sewage	Means all material received in the reticulation system.
sewage products	Means any by-product of the treatment processes and includes biosolids, raw sludge, liquid sludge, thickened sludge, digested sludge, screenings and grit.
sewage pumping station (SPS)	Is a structure which controls the transport of sewage through the sewer pipes, where steep hills and other variations in the land topography can prevent or limit the gravity flow of sewage to the sewage treatment plant.
sewage treatment plant (STP)	Is a facility at which sewage is stored and treated following delivery from the reticulation system prior to discharge, and includes discharge structures and STP bypass points.
sewage treatment system	Means the reticulation system and the sewage treatment plant used for the transport, treatment and discharge of effluent and sewage.
sub-catchment	Sub-catchment boundaries are marked on the system map.
ten year rainfall time series data	Means the rainfall data for the period 1985 to 1994 as used in the EISs.
Trade waste agreements	Means agreements reached between the licensee and industrial and commercial customers to restrict the amount of toxic and other potentially harmful substances discharged to the sewerage system.
ug/L	Means micrograms per litre.
uncontrolled overflow	Means an overflow from any part of the reticulation system that is not a directed overflow. Leakage or overflows from access chambers are examples or uncontrolled overflows.
waters	Has the same meaning as in the Protection of the Environment Operations Act 1997.
waterways	Means the whole or any part of any river, stream, lake, lagoon, swamp, wetlands, natural or artificial watercourse, dam or tidal waters (including the sea), but does not include watercourses that are dry at the commencement of the overflow, or underground pipes, channels or gutters designed to receive or pass rainwater.
wet weather	Wet weather occurs when 10 millimetres or more of rainfall has been measured at a rain gauge in the catchment of the sewage treatment system during a 24 hour period (where there is no rain gauge in the catchment, at the rain gauge closest to the centre of the catchment).
wet weather overflow	Means an overflow in the reticulation system caused by wet weather as determined by the hydraulic sewer system model.

Licence - 10555



Dictionary

General Dictionary

3DGM [in relation
to a concentration
limit1

Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples

Act Means the Protection of the Environment Operations Act 1997

activityMeans a scheduled or non-scheduled activity within the meaning of the Protection of the Environment

Operations Act 1997

actual load Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

AM Together with a number, means an ambient air monitoring method of that number prescribed by the

Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.

AMG Australian Map Grid

anniversary date The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a

licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the

commencement of the Act.

annual return Is defined in R1.1

Approved Methods Publication

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

assessable pollutants

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

BOD Means biochemical oxygen demand

CEM Together with a number, means a continuous emission monitoring method of that number prescribed by

the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.

COD Means chemical oxygen demand

composite sample Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples

collected at hourly intervals and each having an equivalent volume.

cond. Means conductivity

environment Has the same meaning as in the Protection of the Environment Operations Act 1997

environment protection legislation Has the same meaning as in the Protection of the Environment Administration Act 1991

EPA Means Environment Protection Authority of New South Wales.

fee-based activity classification

Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.

general solid waste (non-putrescible)

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Licence - 10555



flow weighted composite sample

Means a sample whose composites are sized in proportion to the flow at each composites time of collection

general solid waste (putrescible)

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environmen t Operations Act

199

grab sample Means a single sample taken at a point at a single time

hazardous waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

licensee Means the licence holder described at the front of this licence

load calculation protocol

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

local authority Has the same meaning as in the Protection of the Environment Operations Act 1997

material harm Has the same meaning as in section 147 Protection of the Environment Operations Act 1997

MBAS Means methylene blue active substances

Minister Means the Minister administering the Protection of the Environment Operations Act 1997

mobile plant Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

motor vehicle Has the same meaning as in the Protection of the Environment Operations Act 1997

O&G Means oil and grease

percentile [in relation to a concentration limit of a sample] Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.

plant Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as

motor vehicles.

pollution of waters [or water pollution]

Has the same meaning as in the Protection of the Environment Operations Act 1997

premises Means the premises described in condition A2.1

public authority Has the same meaning as in the Protection of the Environment Operations Act 1997

regional office Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence

For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary

of the date of issue or last renewal of the licence following the commencement of the Act.

restricted solid waste

reporting period

ste 199

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

scheduled activity Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997

special waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

TM Together with a number, means a test method of that number prescribed by the Approved Methods for the

Sampling and Analysis of Air Pollutants in New South Wales.

Licence - 10555



Means total suspended particles TSP

Means total suspended solids TSS

Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or Type 1 substance

more of those elements

Type 2 substance Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any

compound containing one or more of those elements

utilisation area Means any area shown as a utilisation area on a map submitted with the application for this licence

waste Has the same meaning as in the Protection of the Environment Operations Act 1997

waste type Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-

putrescible), special waste or hazardous waste

Mr Neale Philip

Environment Protection Authority

(By Delegation)

Date of this edition: 30-June-2000

Licence - 10555



End Notes

- 1 Licence varied by notice 010628, issued on 04-Jul-2000, which came into effect on 29-Jul-2000.
- 2 Licence fee period changed by notice 1011799 on 28-Sep-2001.
- 3 Licence varied by notice 1005279, issued on 22-Oct-2001, which came into effect on 16-Nov-2001.
- 4 Licence varied by notice 1017899, issued on 27-Jun-2002, which came into effect on 28-Jun-2002.
- 5 Licence varied by notice 1018896, issued on 19-Aug-2002, which came into effect on 19-Aug-2002.
- 6 Licence varied by notice 1021142, issued on 23-Dec-2002, which came into effect on 17-Jan-2003.
- 7 Licence varied by notice 1032953, issued on 22-Mar-2004, which came into effect on 02-Apr-2004.
- 8 Licence varied by notice 1047036, issued on 29-Jun-2006, which came into effect on 29-Jun-2006.
- 9 Licence varied by notice 1092453, issued on 05-Nov-2008, which came into effect on 05-Nov-2008.
- 10 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 11 Licence varied by notice 1102718, issued on 25-Jun-2009, which came into effect on 25-Jun-2009.
- 12 Licence varied by admin corrections to annual return, issued on 02-Jul-2009, which came into effect on 02-Jul-2009.
- Licence varied by notice 1116042, issued on 02-Jul-2010, which came into effect on 02-Jul-2010.
- Licence varied by notice 1122396, issued on 09-Dec-2010, which came into effect on 09-Dec-2010.
- Licence varied by notice 1128723, issued on 02-Jun-2011, which came into effect on 02-Jun-2011.
- 16 Licence varied by notice 1129098, issued on 23-Jun-2011, which came into effect on 23-Jun-2011.
- 17 Licence varied by notice 1505104 issued on 28-Jun-2012
- 18 Licence varied by notice 1518840 issued on 25-Jun-2014
- 19 Licence varied by notice 1528924 issued on 23-Mar-2015

Licence - 10555



20 Licence varied by notice 1530604 issued on 21-May-2015

21 Licence varied by notice 1538208 issued on 19-Feb-2016