

Environment Protection Licence



Licence - 1600

Licence Details

Number:	1600
Anniversary Date:	01-March

Licensee

TAMWORTH REGIONAL COUNCIL

PO BOX 555

TAMWORTH NSW 2340

Premises

TAMWORTH SEWAGE TREATMENT SYSTEM - FORMER
SWAN STREET PLANT

SWAN STREET

TAMWORTH NSW 2340

TAMWORTH SEWAGE TREATMENT SYSTEM - WESTDALE
PLANT

WALLAMORE ROAD

TAMWORTH NSW 2340

Scheduled Activity

Sewage Treatment

Fee Based Activity

Scale

Sewage treatment processing by small plants

> 1000-5000 ML discharged

Region

North - Armidale

Ground Floor, NSW Govt Offices, 85 Faulkner Street
ARMIDALE NSW 2350

Phone: (02) 6773 7000

Fax: (02) 6772 2336

PO Box 494 ARMIDALE

NSW 2350

Environment Protection Licence



Licence - 1600

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public 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
A3 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	11
L1 Pollution of waters	11
L2 Load limits	11
L3 Concentration limits	12
L4 Volume and mass limits	14
L5 Waste	15
L6 Noise limits	15
L7 Hours of operation	16
L8 Potentially offensive odour	16
4 OPERATING CONDITIONS	17
O1 Activities must be carried out in a competent manner	17
O2 Maintenance of plant and equipment	17
O3 Dust	17
O4 Effluent application to land	17
O5 Emergency response	18
O6 Processes and management	18
O7 Other operating conditions	19
5 MONITORING AND RECORDING CONDITIONS	19
M1 Monitoring records	19

Environment Protection Licence



Licence - 1600

M2	Requirement to monitor concentration of pollutants discharged	20
M3	Testing methods - concentration limits	23
M4	Weather monitoring	23
M5	Recording of pollution complaints	24
M6	Telephone complaints line	24
M7	Requirement to monitor volume or mass	24
M8	Requirement to record overflow or bypass incidents	25
M9	Other monitoring and recording conditions	26
6	REPORTING CONDITIONS	26
R1	Annual return documents	26
R2	Notification of environmental harm	27
R3	Written report	27
R4	Notification of bypass or overflow incidents	28
R5	Annual system performance report	28
R6	Other reporting conditions	29
7	GENERAL CONDITIONS	29
G1	Copy of licence kept at the premises or plant	29
G2	Contact number for incidents and responsible employees	30
G3	Signage	30
G4	Other general conditions	30
8	POLLUTION STUDIES AND REDUCTION PROGRAMS	31
U1	Contamination and condition assessment of former Swan Street STP EUA	31
9	SPECIAL CONDITIONS	31
E1	Sediment flocculation methods trial	31
	DICTIONARY	33
	General Dictionary	33

Environment Protection Licence

Licence - 1600



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); and
- 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).

Environment Protection Licence

Licence - 1600



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:

TAMWORTH REGIONAL COUNCIL
PO BOX 555
TAMWORTH NSW 2340

subject to the conditions which follow.

Environment Protection Licence

Licence - 1600



1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 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 discharged

A1.2 The objectives of this licence are to:

- a) prevent as far as practicable sewage overflows and sewage treatment plant bypasses;
- b) require proper and efficient management of the system to minimise harm to the environment and public health; and
- c) require practical measures to be taken to protect the environment and public health from sewage overflows and sewage treatment plant effluent.

A1.3 This licence is to be construed in a manner that will promote the objectives referred to in the condition above.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
TAMWORTH SEWAGE TREATMENT SYSTEM - WESTDALE PLANT
WALLAMORE ROAD
TAMWORTH
NSW 2340
LOT 1 DP 551793, LOT 2 DP 551793, LOT 3 DP 551793, LOT 36 DP 755333, LOT 1 DP 1103454
THE PREMISES ALSO INCLUDES THE AREAS SPECIFIED IN CONDITION A2.2
TAMWORTH SEWAGE TREATMENT SYSTEM - FORMER SWAN STREET PLANT
SWAN STREET
TAMWORTH
NSW 2340
LOT 36 DP 753848, LOT 37 DP 753848

Environment Protection Licence



Licence - 1600

A2.2 Additional Premises Details

A. Swan Street Effluent Utilisation Area

The utilisation area located at Lot 1, 2, 3, 4, 5, 6 and 7 DP 32550 as shown on map titled 'Tamworth Sewage Treatment Plants – Monitoring and Discharge Points' prepared by the DECC on 8 July 2008 and kept on file LIC07/2325-02.

B. Effluent Reuse Farm

As detailed on the plan titled "Tamworth Sewage Treatment Plants – Proposed Effluent Reuse Farm" dated 24 July 2008 and kept on file LIC07/2325-02.

Beneficial Effluent Reuse Farm bounded by Oxley Highway to North and Bithramere Lane to West and including Lot 2 DP 1119834, Lot 8 DP 703208, Lots 5 & 10 DP 755333, Lot 12 DP 1017170, Lots 2 & 3 DP 787174, Lots 161 & 162 DP 789068 and Lot 12 DP 800536.

A2.3 The premises also includes the reticulation system owned and operated by the licensee that is associated with the sewage treatment plant identified in condition A2.1 and the effluent pipeline from sewage treatment plant to the effluent reuse farm.

A3 Other activities

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

Ancillary Activity
Waste Facilities - waste storage, transfer separating or processing

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 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Environment Protection Licence

Licence - 1600



Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
44	Ambient Weather Monitoring		Weather Station located on the Tamworth Effluent Reuse Farm labelled "Weather Station" on map titled "Drawing 05- Drainage" dated 30 March 2010 on file LIC07/2325-06.

P1.2 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.

P1.3 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.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
9	Groundwater monitoring		Groundwater bore TT02 located at Swan St Plant labelled "EPA Point 9" on map titled "Tamworth Sewage Treatment Plants - Monitoring & Discharge Points" dated 8 July 2008 on file LIC07/2325-02.
10	Groundwater monitoring		Groundwater bore TT03 located at Swan St Plant labelled "EPA Point 10" on map titled "Tamworth Sewage Treatment Plants - Monitoring and Discharge Points" dated 8 July 2008 on file LIC07/2325-02.
14	Groundwater monitoring		Groundwater bore B4 located at Swan St Plant labelled "EPA Point 14" on map titled "Tamworth Sewage Treatment Plants - Monitoring & Discharge Points" dated 8 July 2008 on file LIC07/2325-02.
20	Effluent Quality Monitoring Discharge to Waters	Effluent Quality Monitoring Discharge to Waters	Discharge downstream of maturation ponds and effluent transfer pumping station to the new effluent channel flowing to Wallamore Anabranch.
22	Effluent Quality Monitoring Discharge to Utilisation Areas	Effluent Quality Monitoring Discharge to Utilisation Areas	Discharge to Tamworth Effluent Reuse Farm utilisation areas (centre pivots 1 to 13) as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.

Environment Protection Licence

Licence - 1600



23	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Spillway of runoff control basin 1 as shown on the map entitled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
24	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Discharge pipe outlet from Runoff Control Basin 1 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
25	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Spillway of Runoff Control Basin 2 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
26	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Discharge pipe outlet from Runoff Control Basin 2 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
27	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Spillway of Runoff Control Basin 3 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
28	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Discharge Pipe Outlet from Runoff Control Basin 3 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
29	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Spillway of Runoff Control Basin 4 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
30	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Discharge Pipe Outlet of Runoff Control Pond 4 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
31	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Spillway of Runoff Control Basin 5 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
32	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Discharge Pipe Outlet of Runoff Control Basin 5 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
33	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Spillway of Runoff Control Basin 6 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
34	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Discharge Pipe Outlet from Runoff Control Basin 6 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.

Environment Protection Licence

Licence - 1600



35	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Spillway of Runoff Control Basin 7 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
36	Runoff Quality Monitoring Discharge to Waters	Runoff Quality Monitoring Discharge to Waters	Discharge pipe outlet from Runoff Control Basin 7 as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file LIC07/2325-06.
37	Soils Monitoring		Each soil management unit as shown on maps titled "Figure 2: Location of permanent soil sampling and baseline data collection points" and "Figure 3: Locations of permanent control sampling points" on file LIC07/2325-06.
45	Effluent Quality Monitoring Discharge to Waters	Effluent Quality Monitoring Discharge to Waters	Emergency spillway of effluent storage pond located as shown on the map titled "Drawing 05 - Drainage" dated 30 March 2010 on file FIL07/2325-06.
71	Groundwater monitoring		Piezometer marked "GW1a" on map titled "Figure 8: Proposed monitoring standpipe piezometers for WWTP maturation pond" on FIL07/2325-06.
72	Groundwater Monitoring		Piezometer marked "GW1b" on map titled "Figure 8: Proposed monitoring standpipe piezometers for WWTP maturation pond" on FIL07/2325-06.
73	Groundwater Monitoring		Piezometer marked "GW2a" on map titled "Figure 8: Proposed monitoring standpipe piezometers for WWTP maturation pond" on FIL07/2325-06.
74	Groundwater Monitoring		Piezometer marked "GW2b" on map titled "Figure 8: Proposed monitoring standpipe piezometers for WWTP maturation pond" on FIL07/2325-06.
75	Groundwater Monitoring		Piezometer marked "GW3a" on map titled "Figure 8: Proposed monitoring standpipe piezometers for WWTP maturation pond" on FIL07/2325-06.
76	Groundwater Monitoring		Piezometer marked "GW3b" on map titled "Figure 8: Proposed monitoring standpipe piezometers for WWTP maturation pond" on FIL07/2325-06.

Environment Protection Licence

Licence - 1600



77	Groundwater Monitoring	Piezometer marked "GW4" on map titled "Figure 9: Proposed monitoring standpipe piezometers for reuse farm dam" on FIL07/2325-06.
78	Groundwater Monitoring	Piezometer marked "GW5" on map titled "Figure 9: Proposed monitoring standpipe piezometers for reuse farm dam" on FIL07/2325-06.
79	Groundwater Monitoring	Piezometer marked "GW6" on map titled "Figure 9: Proposed monitoring standpipe piezometers for reuse farm dam" on FIL07/2325-06.
80	Groundwater Monitoring	Piezometer marked "GW7a" on map titled "Figure 9: Proposed monitoring standpipe piezometers for reuse farm dam" on FIL07/2325-06.
81	Groundwater Monitoring	Piezometer marked "GW7b" on map titled "Figure 9: Proposed monitoring standpipe piezometers for reuse farm dam" on FIL07/2325-06.
82	Groundwater Monitoring	Piezometer marked "6M" on map titled "Figure 9: Proposed monitoring standpipe piezometers for reuse farm dam" on FIL07/2325-06.
83	Groundwater Monitoring	Piezometer marked "12M" on map titled "Figure 9: Proposed monitoring standpipe piezometers for reuse farm dam" on FIL07/2325-06.

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 The licensee may only discharge untreated or partially treated sewage from the sewage treatment plant and/or the reticulation system subject to the conditions of this licence, including O1 and O2.

L2 Load limits

- L2.1 The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.

Environment Protection Licence



Licence - 1600

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)	99350.00
Nitrogen (total) (Enclosed Water)	140250.00
Oil and Grease (Enclosed Water)	23375.00
Phosphorus (total) (Enclosed Water)	56100.00
Total suspended solids (Enclosed Water)	93500.00

Note: The load limits referred to in condition L2.1 do not apply to discharges from the reticulation system or from the stormwater runoff control basins (monitoring/discharge points 23 to 36) on the Tamworth Effluent Reuse Farm. Furthermore, the licence load limits will be reviewed and amended by the EPA (to take the effluent diverted from the river to reuse into account) once the performance of the upgraded Tamworth Sewage Treatment System has been proven and it has been in full operation for a minimum of 12 months.

L3 Concentration limits

L3.1 For each monitoring/discharge point or utilisation area specified in the table\ 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\.

L3.4 Water and/or Land Concentration Limits

POINT 20

Pollutant	Units of Measure	50 percentile concentration limit	50 percentile concentration limit	90 percentile concentration limit	100 percentile concentration limit
Biochemical oxygen demand	milligrams per litre		20	-	-

Environment Protection Licence



Licence - 1600

Nitrogen (ammonia)	milligrams per litre	12	-	-
Nitrogen (total)	milligrams per litre	25	-	-
Oil and Grease	milligrams per litre	10	-	-
pH	pH	6.5-8.5	-	-
Phosphorus (total)	milligrams per litre	12	-	-
Thermotolerant Coliforms	colony forming units per 100 millilitres	3000	-	-
Total dissolved solids	milligrams per litre	600	-	-
Total suspended solids	milligrams per litre	20	-	-

POINT 22

Pollutant	Units of Measure	50 percentile concentration limit	50 percentile concentration limit	90 percentile concentration limit	100 percentile concentration limit
Nitrogen (ammonia)	milligrams per litre	15	-	-	-
Nitrogen (total)	milligrams per litre	30	-	-	-
Oil and Grease	milligrams per litre	10	-	-	-
Phosphorus (total)	milligrams per litre	12	-	-	-
Thermotolerant Coliforms	colony forming units per 100 millilitres	1000	-	-	-
Total dissolved solids	milligrams per litre	600	-	-	-

POINT 24,26,28,30,32,34,36

Pollutant	Units of Measure	50 percentile concentration limit	50 percentile concentration limit	90 percentile concentration limit	100 percentile concentration limit
-----------	------------------	-----------------------------------	-----------------------------------	-----------------------------------	------------------------------------

Environment Protection Licence



Licence - 1600

Total suspended solids	milligrams per litre	-	-	50
------------------------	----------------------	---	---	----

L3.5 When a wet weather bypass as defined in condition L4.1 has occurred, exceedances of the concentration limits in condition L3.4 are permitted at the following points, where the bypass was the sole cause of the exceedance:

Point 20

L3.6 The licensee is not taken to have exceeded a quality limit specified in this licence for Biochemical Oxygen Demand, pH or Total Suspended Solids at Point 20, if:

(a) monitoring by the licensee shows that the level of chlorophyll-a in the final maturation pond at the Westdale Plant during any exceedance was 100 ug/L or greater (demonstrating that the exceedance was caused by excessive algal growth).

L4 Volume and mass limits

L4.1 For the points identified below, no discharge to waters is permitted unless the specified volume of runoff or flow is exceeded or the following conditions are met.

Point/s	Specified volume of runoff or flow
20 - Discharge to Wallamore Anabranh of the Peel River	Either: Wet weather sewerage treatment by-pass defined as 4.6 times Average Dry Weather Flow; OR Precautionary releases from storage/disinfection ponds during years (i.e. the previous 12 calendar months) when rainfall received at the premises equals or exceeds the 50th percentile.
23,25,27,29,31,33 & 35 – Spillways of Runoff Control Ponds servicing the controlled drainage areas for the effluent utilisation areas	The runoff volume from the controlled drainage areas reporting to the control ponds solely as a result of rainfall, that is sufficient to fill each runoff control pond from empty to the point of overflow. Runoff that collects in the runoff control ponds as a result of events other than rainfall may not be discharged from the premises.

Note: For the purposes of this condition, the licensee must maintain daily inspection records in order to demonstrate that each runoff control pond was empty prior to a rainfall runoff event.

L4.2 The licensee must take all practicable measures to treat or manage the runoff collected in each of the runoff control ponds nominated in the table at condition L4.1 in accordance with the requirements of this licence and return the pond(s) to an empty state within 5 days of the last rainfall.

Environment Protection Licence



Licence - 1600

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 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 waste. The licensee must treat, process or reprocess the sewage waste in accordance with this licence prior to discharge from this 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 Noise from the premises must not exceed:
- 38 dB(A) $L_{Aeq(15 \text{ minute})}$ during the day (7am to 6pm) Monday to Friday and 7am to 1pm Saturday; and
 - 38 dB(A) $L_{Aeq(15 \text{ minute})}$ during the evening (6pm to 10pm) Monday to Friday; and
 - at all other times 38 dB(A) $L_{Aeq(15 \text{ minute})}$, except as expressly provided by this licence.

Where L_{Aeq} means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.

- L6.2 Noise from the premises is to be measured at one metre of any residential boundary to determine compliance with this condition.

Note: Noise measurement

For the purpose of noise measurement required for this condition, the L_{Aeq} (15 minute) noise level must be measured or computed at any point within one metre of any residential boundary over a period of 15 minutes using "FAST" response on the sound level meter.

For the purpose of the noise criteria for this condition, 5dBA must be added to the measured level if the noise is substantially tonal or impulsive in character. The location or point of impact can be different for each development, for example, at the closest residential receiver or at the closest boundary of the development. Measurement locations can be:

- 1 metre from the façade of the residence for night time assessment;
- at the residential boundary;
- 30 metres from the residence (rural situations) where the boundary is more than 30 metres from the residence.

Environment Protection Licence



Licence - 1600

- L6.3 The noise emission limits identified in this licence apply under all meteorological conditions except:
- a) during rain and wind speeds (at 10m height) greater than 3m/s; and
 - b) under "non-significant weather conditions".

Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.

- L6.4 Noise impacts that may be enhanced by temperature inversions must be addressed by:

a) documenting noise complaints received to identify any higher level of impacts or patterns of temperature inversions;

b) where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts under temperature inversion conditions must be developed and implemented.

L7 Hours of operation

- L7.1 All construction work at the premises must only be conducted between 7 am to 6 pm Monday to Friday, excluding public holidays.
- L7.2 Operational activities at the premises, other than sewerage reticulation, sewage treatment processes and irrigation of effluent, may only be carried on between 7 am to 6 pm Mondays to Fridays, excluding public holidays.
- L7.3 This condition does not apply to the delivery of material outside the hours of operation permitted by condition L7.1 or L7.2, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification must be provided to the EPA and affected residents as soon as possible or within a reasonable period in the case of emergency.
- L7.4 The hours of operation specified in conditions L7.1 and L7.2 may be varied with written consent if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected.

L8 Potentially offensive odour

- L8.1 No condition in this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997 provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

Environment Protection Licence

Licence - 1600



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.

Note: The requirements of O1.1 apply to the whole of the premises, including the reticulation system.

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.

Note: This condition does not apply to the reuse or disposal of biosolids by the licensee at locations other than the premises.

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.

Note: The requirements of O2.1 apply to the whole of the premises, including the reticulation system.

O2.2 For the purposes of this condition, “plant and equipment” includes drainage systems, infrastructure, pollution control equipment and fuel burning equipment, but does not refer to equipment which has been decommissioned but is still on site.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O4 Effluent application to land

O4.1 The quantity of effluent applied to the utilisation area(s) must not exceed the capacity of the utilisation area(s) to effectively utilise the effluent.

For the purpose of this condition, “effectively utilise” includes the use of the effluent for pasture or crop production, as well as the ability of the soil to absorb the nutrient, salt, hydraulic loads and the applied organic material without causing harm to the environment. Monitoring of land and receiving waters to determine the impact of waste water application may be required by the EPA.

O4.2 Effluent application to the utilisation area(s) must not occur in a manner that causes surface run-off from the utilisation area(s).

Environment Protection Licence

Licence - 1600



- O4.3 Spray from effluent application to the utilisation area(s) must not drift beyond the boundary of the utilisation area(s) to which it has been applied.
- O4.4 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.
- O4.5 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.
- O4.6 Public access to any effluent utilisation area must be denied during effluent application and until the effluent application area has dried.
- O4.7 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".
- O4.8 The licensee must retain the utilisation area.
- O4.9 At least 14 days prior to a utilisation area being offered for sale, being disposed of or otherwise rendered unavailable for use, the EPA must be must be advised in writing of this intention.
- O4.10 Livestock access to any effluent application area(s) must be denied during effluent application and until the applied effluent area(s) has dried.
- O4.11 Pasture or fodder crops must not be harvested before the effluent utilisation area(s) has dried.

O5 Emergency response

- O5.1 In the event of an overflow or bypass that harms or is likely to harm the environment, the licensee must use all practicable measures to minimise the impact of the overflow or bypass on the environment and public health. These measures are to be implemented as soon as practical after the licensee or one of the licensee's employees or agents becomes aware of the overflow or bypass.

O6 Processes and management

- O6.1 Sewage or effluent discharged must not be discharged from Point(s) 20 or 21 unless it has been treated in accordance with this condition.
- O6.2 Sewage or effluent must be treated in accordance with the following requirements:
 - (a) The proportion of inflows to the sewage treatment plant less than 4.6 times Average Dry Weather Flow (ADWF) must receive screening, degritting, either trickle filtration or extended aeration treatment, and final disinfection ponding prior to discharge from point 21;
 - (b) The proportion of inflows to the sewage treatment plant greater than 4.6 times ADWF must receive

Environment Protection Licence



Licence - 1600

screening and degritting prior to discharge from point 20; and

(c) The proportion of inflows to the sewage treatment plant discharged as precautionary releases from storage/disinfection ponds in accordance with condition L4.3 must receive screening, degritting, either trickle filtration or extended aeration treatment, and final disinfection ponding prior to discharge from point 20.

O6.3 The licensee must ensure that any extensions to the reticulation system after January 2004 are planned, designed, constructed and installed to prevent as far as practicable overflows from the premises.

Note: "The premises" includes both the new and the previously existing parts of the sewage treatment system.

O6.4 The licensee must maintain a minimum freeboard of 0.7 metres in the effluent reuse farm storage dam shown on the map titled "Drawing 05 - drainage" dated 30 March 2010 on file LIC07/2325-06 at all times, except during heavy rainfall.

O7 Other operating conditions

O7.1 The licensee must not enter into any trade waste agreement to discharge organophosphate pesticides (including chlorpyrifos, diazinon, malathion) into the sewerage system.

O7.2 Prohibition on acceptance of pesticides

The licensee must not consent to any discharge of organochlorine pesticides (such as dieldrin, heptachlor and chlordane) into the sewerage system.

O7.3 New sewage pumping stations

Dry weather overflows resulting in pollution of waters from any sewage pumping station(s) installed within the sewerage treatment system after January 2004 are not permitted.

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;

Environment Protection Licence

Licence - 1600



- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

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 Water and/ or Land Monitoring Requirements

POINT 9,10,14

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Every 6 months	Representative sample
Calcium	milligrams per litre	Every 6 months	Representative sample
Conductivity	microsiemens per centimetre	Every 6 months	In situ
Magnesium	milligrams per litre	Every 6 months	Representative sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Every 6 months	Representative sample
pH	pH	Every 6 months	In situ
Potassium	milligrams per litre	Every 6 months	Representative sample
Sodium	milligrams per litre	Every 6 months	Representative sample
Standing Water Level	metres	Every 6 months	In situ
Total Phosphorus - unfiltered sample	milligrams per litre	Every 6 months	Representative sample

POINT 20

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Special Frequency 2	Representative sample
Conductivity	microsiemens per centimetre	Special Frequency 2	In situ
Nitrogen (ammonia)	milligrams per litre	Special Frequency 2	Representative sample
Nitrogen (total)	milligrams per litre	Special Frequency 2	Representative sample
Oil and Grease	milligrams per litre	Special Frequency 2	Representative sample
pH	pH	Special Frequency 2	In situ
Phosphorus (total)	milligrams per litre	Special Frequency 2	Representative sample
Thermotolerant Coliforms	colony forming units per 100 millilitres	Special Frequency 2	Representative sample
Total dissolved solids	milligrams per litre	Special Frequency 2	Representative sample

Environment Protection Licence



Licence - 1600

Total suspended solids	milligrams per litre	Special Frequency 2	Representative sample
------------------------	----------------------	---------------------	-----------------------

POINT 22

Pollutant	Units of measure	Frequency	Sampling Method
Arsenic	micrograms per litre	Yearly	Representative sample
Cadmium	micrograms per litre	Yearly	Representative sample
Calcium	milligrams per litre	Monthly	Representative sample
Chloride	milligrams per litre	Monthly	Representative sample
Chromium	micrograms per litre	Yearly	Representative sample
Copper	micrograms per litre	Yearly	Representative sample
Lead	micrograms per litre	Yearly	Representative sample
Magnesium	milligrams per litre	Monthly	Representative sample
Mercury	micrograms per litre	Yearly	Representative sample
Nickel	micrograms per litre	Yearly	Representative sample
Nitrate	milligrams per litre	Monthly	Representative sample
Nitrite	milligrams per litre	Monthly	Representative sample
Nitrogen (ammonia)	milligrams per litre	Monthly	Representative sample
Nitrogen (total)	milligrams per litre	Monthly	Representative sample
Oil and Grease	milligrams per litre	Monthly	Representative sample
Pesticides	micrograms per litre	Yearly	Representative sample
Phosphorus (total)	milligrams per litre	Monthly	Representative sample
Potassium	milligrams per litre	Monthly	Representative sample
Selenium	micrograms per litre	Yearly	Representative sample
Sodium	milligrams per litre	Monthly	Representative sample
Thermotolerant Coliforms	colony forming units per 100 millilitres	Weekly	Representative sample
Total dissolved solids	milligrams per litre	Weekly	Representative sample
Total Kjeldahl Nitrogen	milligrams per litre	Monthly	Representative sample
Zinc	micrograms per litre	Yearly	Representative sample

POINT 24,26,28,30,32,34,36

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Monthly during discharge	Representative sample
Nitrogen (total)	milligrams per litre	Monthly during discharge	Representative sample
Oil and Grease	milligrams per litre	Monthly during discharge	Representative sample
Pesticides	micrograms per litre	Monthly during discharge	Special Method 1
Phosphorus (total)	milligrams per litre	Monthly during discharge	Representative sample
Thermotolerant Coliforms	colony forming units per 100 millilitres	Monthly during discharge	Representative sample

Environment Protection Licence



Licence - 1600

Total dissolved solids	milligrams per litre	Monthly during discharge	Representative sample
Total suspended solids	milligrams per litre	Special Frequency 1	Representative sample

POINT 45

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Each overflow event	Representative sample
Nitrogen (total)	milligrams per litre	Each overflow event	Representative sample
Oil and Grease	milligrams per litre	Each overflow event	Representative sample
Phosphorus (total)	milligrams per litre	Each overflow event	Representative sample
Total suspended solids	milligrams per litre	Each overflow event	Representative sample

POINT 71,72,73,74,75,76,77,78,79,80,81,82,83

Pollutant	Units of measure	Frequency	Sampling Method
Calcium	milligrams per litre	Yearly	Representative sample
Chloride	milligrams per litre	Yearly	Representative sample
Conductivity	microsiemens per centimetre	Quarterly	In situ
Fluoride	milligrams per litre	Yearly	Representative sample
Magnesium	milligrams per litre	Yearly	Representative sample
Nitrate	milligrams per litre	Yearly	Representative sample
Orthophosphate	milligrams per litre	Yearly	Representative sample
pH	pH	Yearly	Representative sample
Phosphorus (total)	milligrams per litre	Yearly	Representative sample
Sodium	milligrams per litre	Yearly	Representative sample
Standing Water Level	metres	Quarterly	In situ
Thermotolerant Coliforms	colony forming units per 100 millilitres	Yearly	Representative sample

M2.3 For the purposes of this licence, “*Special Frequency 1*” means that samples must be taken during each discharge event. The EPA may reduce this sampling frequency after the report required by condition E1 has been submitted if it presents and correlates appropriate in-situ water quality indicators (e.g. turbidity) for the relevant discharge limits (i.e. TSS of 50 mg/L) for each runoff control pond.

For the purposes of this licence, “*Special Frequency 2*” means that sampling must occur during each discharge event to a maximum of 6 samples per reporting period.

For the purposes of this licence, “*Special Method 1*” means that samples must be tested for the active constituents contained within all the pesticide products applied within the last 3 months to the effluent utilisation area/s of the reuse farm associated with each sampling event.

Environment Protection Licence

Licence - 1600



M3 Testing methods - concentration limits

M3.1 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.

Note: Clause 18 (1), (1A) and (2) of the Protection of the Environment Operations (General) Regulation 2009 requires that monitoring of actual loads of assessable pollutants listed in L2.1 must be carried out in accordance with the testing method set out in the relevant load calculation protocol for the fee-based activity classification listed in condition A1.1.

M4 Weather monitoring

M4.1 For each monitoring point specified in the table below, the licensee must monitor (by sampling and obtaining results by analysis where necessary) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency specified opposite in the other columns.

POINT 44

Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method
Rainfall	Millimetres per hour	Continuous	1 hour	AM-4
Wind speed @ 10 metres	Metres per second	Continuous	15 minutes	AM-2 & AM-4 or alternative method approved by EPA in writing
Wind direction @ 10 metres	Degrees clockwise from true north	Continuous	15 minutes	AM-2 & AM-4
Temperature @ 2 metres	Degrees Celsius	Continuous	15 minutes	AM-4
Temperature @ 10 metres	Degrees Celsius	Continuous	15 minutes	AM-4
Sigma theta @ 10 metres	Degrees clockwise from true north	Continuous	15 minutes	AM-2 & AM-4
Solar radiation	Watts per square metre	Continuous	15 minutes	AM-4
Additional siting requirements				AM-1, AM-4 & Special Method 2

M4.2 For the purposes of this condition, "Special Method 2" means that the licensee must install a permanent meteorological monitoring station and logger. The location of the site chosen for the station and details of equipment, measurement and maintenance/service procedures and schedules to be installed or implemented and maintained must be submitted in writing to the EPA and approved in writing by the EPA before any sampling or analysis is carried out. The meteorological station must be calibrated at least once every 12 months. The EPA is to be provided with data on request in a Microsoft ® Office software compatible format.

Environment Protection Licence

Licence - 1600



M5 Recording of pollution complaints

- M5.1 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.
- M5.2 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.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

- M6.1 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.
- M6.2 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.
- M6.3 The preceding two conditions do not apply until 3 months after:
- a) the date of the issue of this licence or
 - b) 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.
- M6.4 For the purpose of condition M5.1, operating hours are defined as twenty-four hours a day, seven days a week.
- M6.5 The public notification referred to in condition M5.2 must include specific reference to the fact that the complaints line may be used by the community for the reporting of overflows.

M7 Requirement to monitor volume or mass

- M7.1 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;

Environment Protection Licence

Licence - 1600



c) the mass of pollutants emitted to the air;
at the frequency and using the method and units of measure, specified below.

POINT 20

Frequency	Unit of Measure	Sampling Method
Continuous	kilolitres per day	Flow meter and continuous logger

POINT 22

Frequency	Unit of Measure	Sampling Method
Special Frequency 3	kilolitres per day	Flow meter and continuous logger

- M7.2 For the purposes of this licence, “*Special Frequency 3*” means that sampling must occur continuously for every irrigation (discharge to effluent utilisation area/s) event.
- M7.3 Equipment used to monitor the volume must provide data that is within 5 percent of the actual volume over the likely full range of flow required to be measured by the equipment.
- M7.4 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 estimated using another agreed method approved in writing by the EPA. This provision only applies for the duration of the failure or malfunction. The licensee is to rectify the failure or malfunction as soon as practicable.
- M7.5 The licensee must:
- submit in writing to the EPA a proposal for a method of volume estimation; or
 - use a method of volume estimation already approved in writing by the EPA,
- to be used in the event that essential monitoring equipment referred to in the previous condition has failed or malfunctioned.

M8 Requirement to record overflow or bypass incidents

- M8.1 The licensee must record the following details in respect of each bypass of any of the appropriate treatment processes required by condition O3 which may be reasonably expected to adversely affect the quality of the final discharge:
- the EPA point identification number through which the bypass discharged;
 - the date, estimated start time and estimated duration of the bypass;
 - the estimated volume of the bypass;
 - the level of treatment of the sewage at the STP prior to discharge;
 - the probable cause of the bypass;
 - any actions taken to stop the bypass happening; and
 - any actions taken to prevent the bypass happening again.

- M8.2 In addition to the details listed in the previous condition, the licensee must also record classification as a wet or dry weather bypass in respect of each bypass referred to in the previous condition. A dry weather

Environment Protection Licence

Licence - 1600



bypass is a bypass that occurs when the flow rate of sewage at the inflow volume monitoring point of the STP does not exceed 180 L/s and a wet weather bypass occurs when this flow is equalled or exceeded at any time during the bypass event.

M8.3 From October 2003 the licensee must record the following details in relation to each observed or reported overflow from the reticulation system and from the sewage treatment plant:

- a) the location of the overflow;
- b) the date, estimated start time and estimated duration of the overflow;
- c) the estimated volume of the overflow;
- d) a description of the receiving environment of the overflow;
- e) classification as a dry or wet weather overflow;
- f) the probable cause of the overflow;
- g) any actions taken to stop the overflow happening;
- h) any actions taken to clean up the overflow; and
- i) any actions taken to prevent the overflow happening again.

M9 Other monitoring and recording conditions

M9.1 Biosolids at the premises must be recorded, monitored and classified in accordance with the Biosolids Guidelines, to the extent that those Guidelines are applicable, or as otherwise approved in writing by the EPA.

Note: This condition does not apply to the reuse or disposal of biosolids by the licensee at locations other than the premises.

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:

- a) a Statement of Compliance; and
- b) a Monitoring and Complaints Summary.

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.

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.

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

Environment Protection Licence



Licence - 1600

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').
- 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 Statement 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.
- R1.9 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

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.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

- 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.

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.

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

Environment Protection Licence



Licence - 1600

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 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.

R4 Notification of bypass or overflow incidents

R4.1 Where either:

- a) sewage or partially treated sewage is discharged from the premises as a result of a bypass of the sewage treatment plant, or:
- b) an observed or reported overflow has occurred from the reticulation system, and overflow or bypass may pose a risk to public health, the licensee is to promptly give appropriate notification to any parties that are likely to be affected, including:
 - i) the potentially affected community;
 - ii) the Department of Health;
 - (iii) all other parties as identified in the Incident Notification Protocol..

R5 Annual system performance report

R5.1 The licensee must supply to the EPA an Annual System Performance Report not later than 60 days after the end of each reporting period.

R5.2 The report is to supplement the Annual Return and must include but need not be limited to:

- (a) the 50 percentile, 90 percentile, 100 percentile and 3DGM values calculated from the monitoring data required by this licence for the reporting period for each pollutant which has corresponding concentration

Environment Protection Licence

Licence - 1600



limits specified in this licence;

(b) the total amounts of biosolids, as classified in the Biosolids Guideline, disposed of on-site, offsite and to landfill during the reporting period;

(c) a diagram showing the major process elements, discharge points and monitoring points at the premises' sewage treatment plant(s), where there has been any significant change since the previous reporting period or this information has not been provided previously to the EPA;

(d) an analysis and interpretation of all monitoring results, including all additional non-licence monitoring committed to in the site Operational Environmental Management Plan (OEMP) and actions to correct identified adverse trends;

(e) the number of dry and wet weather bypasses recorded over the reporting period (recorded in accordance with condition M7);

(f) a breakdown of the total number of complaints received by the licensee during the reporting period in relation to the premises into categories of "odours – sewage treatment plant", "odours – reticulation system", "water pollution – sewage treatment plant", "water pollution – reticulation system" and any other category indicated by the complaints;

(g) a summary of observed, reported or recorded wet weather overflows and observed, reported or recorded dry weather overflows and sewage treatment plant bypasses. These data are to be for the current reporting period and for the four previous twelve-month periods, for which data has been collected. Any significant actions taken to address bypasses or overflows are to be noted;

(h) the amount of rainfall measured at a rain gauge at the STP, or at the rain gauge closest to the centre of the catchment of the sewage treatment system, for each month of the reporting period; and

(i) a brief progress report on the implementation over the reporting period of actions and recommendations specified in the PRP100 - Sewer Overflow Investigation Report submitted to the EPA on 9 November 2007.

R5.3 The Annual System Performance Report must be presented in a format approved in writing by the EPA.

R5.4 The requirements of R5.2 (d), (e), (f) and (g) apply to the part of the reporting period beginning three months after the date the licence is varied to include this condition.

R6 Other reporting conditions

R6.1 When the licensee notifies the Department of Health or Safe Food NSW Shellfish Quality Assurance Program of a bypass or overflow incident, the licensee must also notify the EPA by telephoning its Pollution Line service on 131 555. Notifications are to be given as soon as practicable after the licensee or one of the licensee's employees or agents becomes aware of the incident, and must include all relevant information including the information required under condition M9.1 or M7.1.

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.

Environment Protection Licence



Licence - 1600

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Note: For the purposes of this condition, “the premises” refers to each Sewage Treatment Plant(s) described in condition A2.1.

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 subsequent 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) 8 to 10, 14, 19, 20, 22 to 36, 45 and 71 to 83 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.

G4 Other general conditions

G4.1 The licensee must prepare, implement and maintain a current Operations Environmental Management Plan (OEMP) that addresses each of the key sites associated with the Licence including the treatment plant, sewage pumping stations, pipelines and the irrigation system in consultation with the EPA.

The OEMP must address (but is not limited to) the issues listed in condition 22 of the Parry Shire Council Notice of Determination for Development Application 2000/264 dated 22/08/2002.

To ensure that the OEMP remains current and up to date, it must be reviewed a minimum of once every two years. The EPA must be consulted with respect to any amendments to the OEMP proposed following each review.

G4.2 The licensee must establish and maintain a community environment liaison committee, comprising representatives of the community, the licensee and other appropriate stakeholders that will meet at least once per year. Discussion at the meetings must include implementation of the development consent and other statutory approvals and provide time for the community to review monitoring records and raise matters of concern associated with the environmental impact of the development, with a view to achieving mutually satisfactory solutions.

Note: Where the licensee can demonstrate that community representatives are not participating in community environment liaison committee meetings and that concerns raised at previous committee meetings have

Environment Protection Licence

Licence - 1600



been adequately addressed, the EPA may consider reducing the frequency of required committee meetings, or removing this condition from the premises Environment Protection Licence.

8 Pollution Studies and Reduction Programs

U1 Contamination and condition assessment of former Swan Street STP EUA

- U1.1 The licensee must engage a suitably qualified person to complete a thorough site contamination and condition assessment of the former Swan Street Sewage Treatment Plant Effluent Utilisation Area. The site contamination and condition assessment must include (but need not be limited to):
- an appropriate site contamination sampling and analysis program designed in accordance with the requirements of the NSW Contaminated Land Management Act 1997 and the National Environment Protection (Assessment of Site Contamination) Measure 1999;
 - a review of all remaining site infrastructure and its condition to determine whether actions are required to render the site safe and environmentally benign/stable;
 - a review of the former effluent utilisation areas and their condition to determine whether specific actions are required to ensure that the site is rendered safe and environmentally benign/stable, so that they do not contribute to surface or groundwater pollution; and
 - an assessment of any site contamination remediation actions required to render the site suitable for any future likely land uses and to ensure that it is not contributing or has not contributed pollutants to any off-site location.

The licensee must submit, to the satisfaction of the EPA, a site contamination and condition report to the EPA's Armidale office by no later than 31 December 2013. The report must include (but need not be limited to):

- a comparison of the site contamination sampling results against the relevant health, ecologically-based and groundwater investigation levels, and any other relevant criteria or guideline levels;
- documentation of the site sampling methodology and procedures utilised in the site contamination and condition assessment;
- the documented outcomes of the site contamination and condition assessment;
- recommendations with respect to any necessary remediation actions or environmental works required; and
- suggested timeframes within which the recommended actions can be implemented/completed by Council.

Due Date: 31 December 2013

Note: The EPA intends to require the completion of any recommended actions or works by applying a further and subsequent pollution reduction program to the licence once the requirements of this condition have been met.

9 Special Conditions

E1 Sediment flocculation methods trial

Environment Protection Licence

Licence - 1600



E1.1 The licensee must implement a trial of a range of best practice sediment flocculation methods or other management techniques at the reuse farm upon the commissioning of the effluent reuse areas. The trial should aim to identify the most practical and suitable flocculation or runoff management methods for the range of soil types on the reuse farm effluent utilisation areas, to enable efficient and effective treatment/management of runoff collected in the runoff control ponds prior to, or instead of, their controlled discharge from the premises in accordance with the requirements of conditions L3.3 and L4.3.

The licensee must prepare and submit a report detailing the outcomes of the trial which includes:

- The most practical, efficient and effective treatment options/management techniques identified during the trial;
- The standard operating procedures that will be followed to ensure effective runoff treatment/management and compliance with the licence discharge limits; and
- An analysis of the potential risks posed to the environment by any associated treatment products.

The report must be submitted to the EPA's Armidale office by no later than 11 July 2013.

Due Date: 11 July 2013

Environment Protection Licence



Licence - 1600

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	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
activity	Means 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 <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
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 <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
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

Environment Protection Licence



Licence - 1600

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 Environment Operations Act 1997
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
reporting period	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	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 <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 1600

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or 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 Terry Knowles

Environment Protection Authority

(By Delegation)

Date of this edition: 10-November-2000

Environment Protection Licence



Licence - 1600

End Notes

- 1 Licence varied by notice 1007290, issued on 18-Jun-2001, which came into effect on 13-Jul-2001.
- 2 Licence varied by notice 1014203, issued on 26-Apr-2002, which came into effect on 26-Apr-2002.
- 3 Licence varied by notice 1026571, issued on 24-Apr-2003, which came into effect on 24-Apr-2003.
- 4 Licence varied by notice 1028044, issued on 24-Jun-2003, which came into effect on 15-Jul-2003.
- 5 Licence varied by notice 1029547, issued on 03-Oct-2003, which came into effect on 28-Oct-2003.
- 6 Licence varied by notice 1036067, issued on 05-May-2004, which came into effect on 25-May-2004.
- 7 Licence transferred through application 142679, approved on 02-Jun-2004, which came into effect on 17-Mar-2004.
- 8 EPA Condition ID S40934 amended 13-08-04
- 9 Licence varied by notice 1039911, issued on 02-Sep-2004, which came into effect on 27-Sep-2004.
- 10 Licence varied by notice 1060942, issued on 06-Jul-2006, which came into effect on 06-Jul-2006.
- 11 Licence varied by notice 1068999, issued on 23-Mar-2007, which came into effect on 23-Mar-2007.
- 12 Licence varied by notice 1090091, issued on 07-Aug-2008, which came into effect on 07-Aug-2008.
- 13 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 14 Licence varied by notice 1120390, issued on 25-Feb-2011, which came into effect on 25-Feb-2011.
- 15 Licence varied by notice 1500802 issued on 24-Nov-2011
- 16 Licence varied by notice 1503003 issued on 16-May-2012
- 17 Licence varied by notice 1513103 issued on 05-Jun-2013