Environmental Protection Act 1994

Environmental authority EPPR00526313

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPPR00526313

The **anniversary day** of this environmental authority remains **27 October**. The payment of the annual fee will be due each year on this day. An **annual return** will be due each year on **01 March**.

Environmental authority holder(s)

Name(s)	Registered address
Lives Lived Well Limited	55 Little Edward Street SPRING HILL QLD 4000

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 1 on RP863052

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or

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- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or

b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Sam Smith
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 07 February 2020

Enquiries:
Heritage, Utilities and Government Assessment
Department of Environment and Science

Phone: 1300 130 372
Email: palm@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

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Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site.

Obligations under the *Mining and Quarrying Safety and Health Act 1999*

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at www.dnrm.qld.gov.au, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

The environmentally relevant activitie(s) conducted at the location(s) as described above must be conducted in accordance with the following site specific conditions of the approval.

Agency interest: General	
Condition number	**Condition**
G1	**Activities** conducted under this environmental authority must not be conducted contrary to any of the following limitations: 1. Inflows to the sewage treatment works must not exceed the peak design capacity of 8,000L on any day. 2. A maximum of 8,000L/day of treated sewage effluent at an irrigation rate of 2.67mm/compensating dripper/day may be disposed over the designated land application area. 3. The area designated for treated effluent irrigation must be limited to the area defined in *Appendix 1 – Land Application Area* 4. A portion of the 75 m x 40 m irrigation area identified in *Appendix 1 – Land Application Area* as 'Compensating Drippers Land Application Area' may be cleared and replaced with horticultural plants, provided that: a) a minimum of 90% kikuyu grass cover is retained in the 'Compensating Drippers Land Application Area'; and b) the clearing activities do not disturb subsurface effluent irrigation infrastructure.
G2	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the **activities**.
G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G4	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G5	All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the **administering authority** upon request and in the format requested.
G6	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.

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G7	A receiving environment monitoring program must be designed and implemented by an **appropriately qualified person(s)** to monitor the effects of the **activity** on land.
G8	The receiving environment monitoring program required by condition G7, must include at least the following: 1. soil and sub-soil analysis, including assessment of the soils from representative locations, including type, structure, pH, phosphorus adsorption level and capacity, nutrient status, salinity and sodicity, and cation exchange capacity of the irrigation release areas; and 2. determination of the quantity and quality of contaminants applied to the soils from the recycled water irrigation; and 3. periodic re-assessment including modelling of the water, nutrient and salt balances and irrigation rate and return period to ensure sustainable use of the irrigation area; and 4. reporting of monitoring results and an assessment of the impact of the releases on the irrigation areas.
G9	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (**NATA)** certification, or an equivalent certification, for such analyses.
G10	An annual monitoring report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.
G11	**You** must record the following details for all environmental complaints received: 1. date and time complaint was received 2. name and contact details of the complainant when provided and authorised by the complainant 3. nature of the complaint 4. investigations undertaken 5. conclusions formed 6. actions taken.
G12	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority** to investigate a complaint of **environmental nuisance** arising from the **activity**. The monitoring results must be provided within 10 business days to the **administering authority** upon its request.
G13	The **activity** must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the **activity** during routine operations, closure and an emergency 2. establish and maintain control **measures** that minimise the potential for environmental harm 3. ensure plant, equipment and **measures** are maintained in a proper and effective condition 4. ensure plant, equipment and **measures** are operated in a proper and effective manner *5.* ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994* *6.* ensure that reviews of environmental performance are undertaken at least annually.

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Agency interest: Air	
Condition number	**Condition**
A1	Other than as permitted within this **environmental authority**, odours or airborne contaminants must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
Agency interest: Noise	
Condition number	**Condition**
N1	Other than as permitted within this environmental authority, noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place.**
Agency interest: Land	
Condition number	**Condition**
L1	The only contaminant to be released to land is treated effluent in accordance with *Table 1 – Treated effluent release limits to irrigation area* and the associated requirements.

Table - Treated effluent release limits to irrigation area

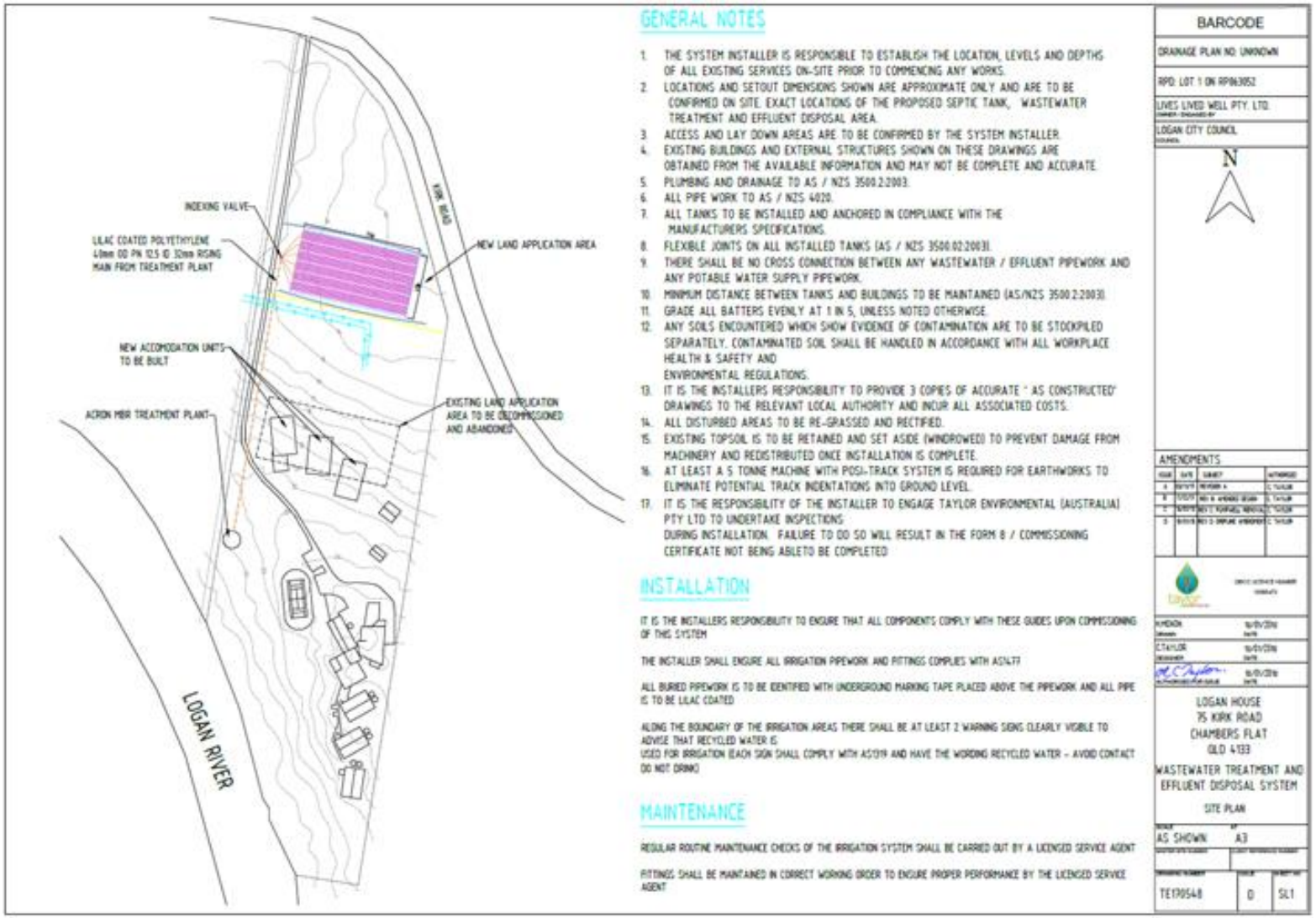
Quality Characteristic (units)	Release Limit	Limit Type	Monitoring frequency
Volume (L/day)	8,000	Maximum	Daily
BOD5 (mg/L)	15	Maximum	Quarterly
Total Suspended Solids (mg/L)	10	Maximum	Quarterly
Total Nitrogen (mg/L as N)	60	Maximum	Quarterly
Total Phosphorus (mg/L as P)	20	Maximum	Quarterly
pH (pH units)	5.0 - 8.5	Range	Quarterly

	<table><tr><td>Enterococci /E.coli CFU/100ml)</td><td>1000</td><td>Maximum</td><td>Quarterly</td></tr><tr><td>Electrical Conductivity (µS/cm)</td><td>1600</td><td>Maximum</td><td>Quarterly</td></tr><tr><td>Residual Chlorine (mg/L)</td><td>1</td><td>Maximum</td><td>Quarterly</td></tr></table> **Associated requirements** 1. Monitoring must be in accordance with the **administering authority**'s Water Quality Sampling Manual and <INSERT any additional relevant guidelines if necessary> and all monitoring devices must be effectively calibrated and maintained. 2. Releases of treated effluent must not be outside of the land application area indicated in *Appendix 1 – Land Application Area*. 3. Monitoring must be undertaken when treated sewage effluent is being irrigated, unless irrigation has ceased for longer than the relevant parameters specified minimum frequency (e.g. if TSS was only required to be monitored once a week, then a TSS sample would not be required after the first week following cessation of the release). 4. Volume of release must be calculated based on the total irrigation area when irrigating the maximum volume or the worked out for the area of application based on the actual volume irrigated. 5. Indicators for TN and TP are recommended to be done as grab samples.
L2	Treated effluent released to land must be done in accordance with documentation that ensures: a) drainage to **groundwater** and subsurface flows of contaminants to surface waters are prevented b) surface pondage and run-off of effluent is prevented c) degradation of soil structure is minimised d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised e) spray drift or overspray does not carry beyond effluent disposal areas f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; and g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L3	When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.
Agency interest: Water	
Condition number	**Condition**
W1	Stormwater contaminated by the activity must be managed to minimise or prevent any adverse effect on the environmental values of the receiving environment.

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Agency interest: Waste	
Condition number	**Condition**
R1	Other than effluent released to land in accordance with conditions (G1), (L1) and (L2), all waste generated in carrying out the activity must be reused, recycled or lawfully disposed of offsite.

Appendix 1 – Land Application Area



GENERAL NOTES

1. THE SYSTEM INSTALLER IS RESPONSIBLE TO ESTABLISH THE LOCATION, LEVELS AND DEPTHS OF ALL EXISTING SERVICES ON-SITE PRIOR TO COMMENCING ANY WORKS.
2. LOCATIONS AND SETOUT DIMENSIONS SHOWN ARE APPROXIMATE ONLY AND ARE TO BE CONFIRMED ON SITE. EXACT LOCATIONS OF THE PROPOSED SEPTIC TANK, WASTEWATER TREATMENT AND EFFLUENT DISPOSAL AREA.
3. ACCESS AND LAY DOWN AREAS ARE TO BE CONFIRMED BY THE SYSTEM INSTALLER.
4. EXISTING BUILDINGS AND EXTERNAL STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED FROM THE AVAILABLE INFORMATION AND MAY NOT BE COMPLETE AND ACCURATE.
5. PLUMBING AND DRAINAGE TO AS / NZS 3500.2:2003.
6. ALL PIPE WORK TO AS / NZS 4020.
7. ALL TANKS TO BE INSTALLED AND ANCHORED IN COMPLIANCE WITH THE MANUFACTURERS SPECIFICATIONS.
8. FLEXIBLE JOINTS ON ALL INSTALLED TANKS (AS / NZS 3500.02:2003).
9. THERE SHALL BE NO CROSS CONNECTION BETWEEN ANY WASTEWATER / EFFLUENT PIPEWORK AND ANY POTABLE WATER SUPPLY PIPEWORK.
10. MINIMUM DISTANCE BETWEEN TANKS AND BUILDINGS TO BE MAINTAINED (AS/NZS 3500.2:2003).
11. GRADE ALL BATTERS EVENLY AT 1 IN 5, UNLESS NOTED OTHERWISE.
12. ANY SOILS ENCOUNTERED WHICH SHOW EVIDENCE OF CONTAMINATION ARE TO BE STOCKPILED SEPARATELY. CONTAMINATED SOIL SHALL BE HANDLED IN ACCORDANCE WITH ALL WORKPLACE HEALTH & SAFETY AND ENVIRONMENTAL REGULATIONS.
13. IT IS THE INSTALLERS RESPONSIBILITY TO PROVIDE 3 COPIES OF ACCURATE ' AS CONSTRUCTED' DRAWINGS TO THE RELEVANT LOCAL AUTHORITY AND INCUR ALL ASSOCIATED COSTS.
14. ALL DISTURBED AREAS TO BE RE-GRASSED AND RECTIFIED.
15. EXISTING TOPSOIL IS TO BE RETAINED AND SET ASIDE (WINDROWED) TO PREVENT DAMAGE FROM MACHINERY AND REDISTRIBUTED ONCE INSTALLATION IS COMPLETE.
16. AT LEAST A 5 TONNE MACHINE WITH POSI-TRACK SYSTEM IS REQUIRED FOR EARTHWORKS TO ELIMINATE POTENTIAL TRACK INDENTATIONS INTO GROUND LEVEL.
17. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENGAGE TAYLOR ENVIRONMENTAL (AUSTRALIA) PTY LTD TO UNDERTAKE INSPECTIONS DURING INSTALLATION. FAILURE TO DO SO WILL RESULT IN THE FORM 8 / COMMISSIONING CERTIFICATE NOT BEING ABLETO BE COMPLETED

INSTALLATION

IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE THAT ALL COMPONENTS COMPLY WITH THESE GUIDES UPON COMMISSIONING OF THIS SYSTEM

THE INSTALLER SHALL ENSURE ALL IRRIGATION PIPEWORK AND FITTINGS COMPLIES WITH AS1477

ALL BURIED PIPEWORK IS TO BE IDENTIFIED WITH UNDERGROUND MARKING TAPE PLACED ABOVE THE PIPEWORK AND ALL PIPE IS TO BE LILAC COATED

ALONG THE BOUNDARY OF THE IRRIGATION AREAS THERE SHALL BE AT LEAST 2 WARNING SIGNS CLEARLY VISIBLE TO ADVISE THAT RECYCLED WATER IS USED FOR IRRIGATION (EACH SIGN SHALL COMPLY WITH AS1319 AND HAVE THE WORDING RECYCLED WATER - AVOID CONTACT DO NOT DRINK)

MAINTENANCE

REGULAR ROUTINE MAINTENANCE CHECKS OF THE IRRIGATION SYSTEM SHALL BE CARRIED OUT BY A LICENSED SERVICE AGENT

FITTINGS SHALL BE MAINTAINED IN CORRECT WORKING ORDER TO ENSURE PROPER PERFORMANCE BY THE LICENSED SERVICE AGENT

BARCODE

DRAINAGE PLAN NO: UNKNOWN

RPD: LOT 1 ON RP863052

LIVES LIVED WELL PTY. LTD.

LOGAN CITY COUNCIL

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AMENDMENTS

ISSUE	DATE	SUBJECT	AUTHORISED
A	10/11/15	REVISION A	C.TAYLOR
B	1/12/15	NO. 6 WINDOWS DELETED	C.TAYLOR
C	5/01/16	NOTE 7 FURTHER REVISED	C.TAYLOR
D	8/01/16	NO. 3 DRIVE WINDOWS	C.TAYLOR

M.HENDRA 10/01/2016

C.TAYLOR 10/01/2016

LOGAN HOUSE
75 KIRK ROAD
CHAMBERS FLAT
QLD 4133

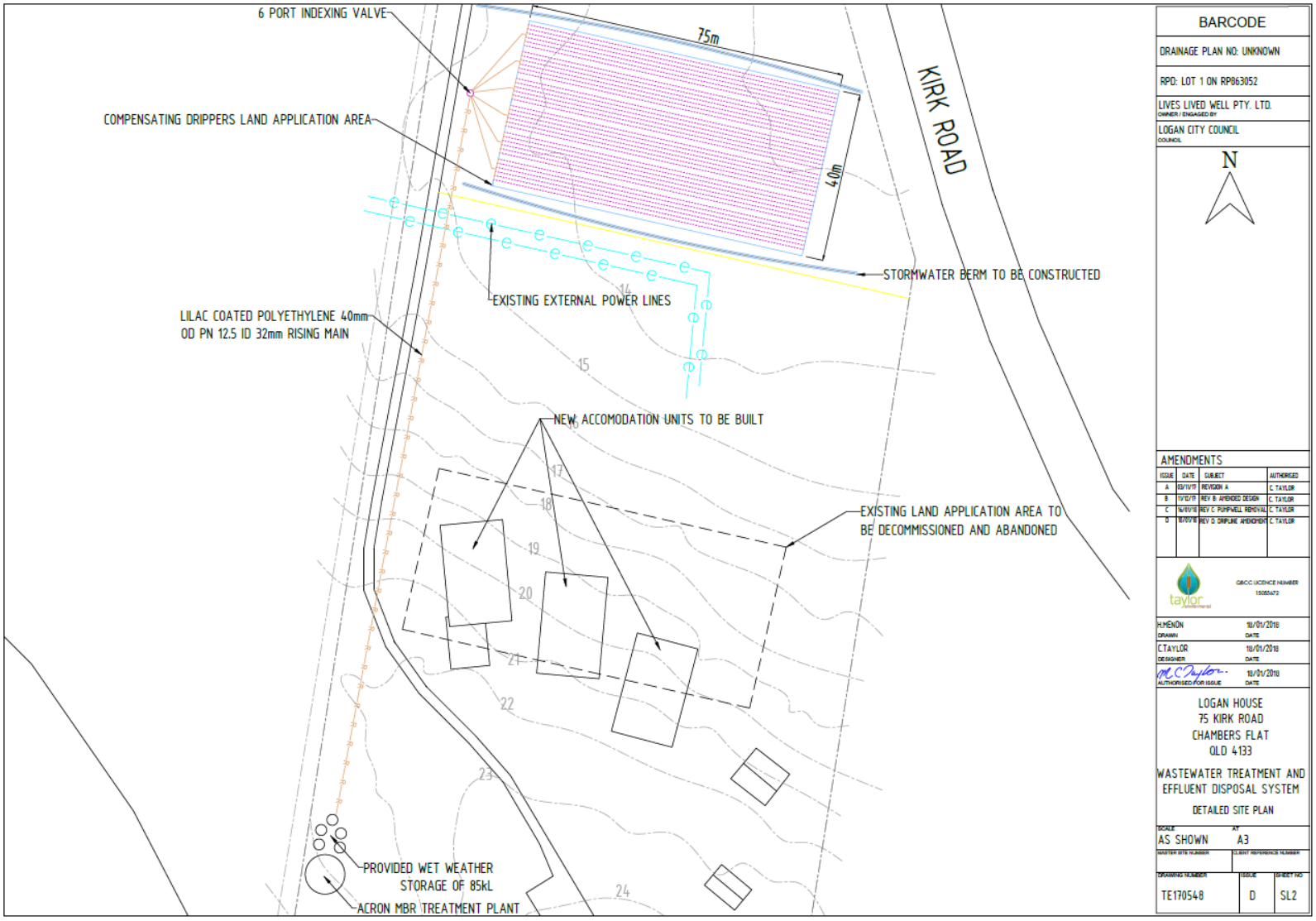
WASTEWATER TREATMENT AND EFFLUENT DISPOSAL SYSTEM

SITE PLAN

AS SHOWN A3

TE170548 D SL1

Land Application Area



Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Science or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to the EA requirements and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods or literature.

BOD5 means the 5 day biochemical oxygen demand determined using standard tests (e.g. those used by **NATA** laboratories). This test is not inhibited for nitrification, otherwise would be referred to as "carbonaceous" BOD.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Day means any 24 hour period.

Environmental nuisance as defined under Chapter 1 of the *Environmental Protection Act 1994.*

Environmental value as defined under Chapter 1 of the *Environmental Protection Act 1994.*

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

NATA means National Association of Testing Authorities.

Receiving environment monitoring program means a monitoring program designed to monitor and assess the potential impacts of controlled and/or uncontrolled releases of contaminants to the environment from the **activity**.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant into the environment means to:

(a) deposit, discharge, emit or disturb the contaminant
(b) cause or allow the contaminant to be deposited, discharged, emitted or disturbed
(c) fail to prevent the contaminant from being deposited, discharged emitted or disturbed
(d) allow the contaminant to escape
(e) fail to prevent the contaminant from escaping.

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Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
6. a public thoroughfare, park or gardens; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Total Nitrogen (TN) means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus**.**

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and **groundwater** and any part thereof.

You means the holder of the environmental authority.

END OF PERMIT