Permit

Environmental Protection Act 1994

Environmental authority EPPR00509513

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

Environmental authority number: EPPR00509513

Environmental authority takes effect on 18 September 2017

Environmental authority holder(s)

Name(s)	Registered address
DEPARTMENT OF EDUCATION AND TRAINING	Asset Maintenance Unit 30 Mary Street BRISBANE CITY QLD 4000

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, 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 47/WD5790

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
- 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.

Department of Environment and Heritage Protection
www.ehp.qld.gov.au ABN 46 640 294 485

Queensland Government

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.

Christine Mooney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 18 September 2017

Enquiries:
Heritage, Utilities and Government Assessment
Department of Environment and Heritage Protection
Phone: 1300 130 372
Email: palm@ehp.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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Conditions of Environmental Authority

General

G1 **Activities** conducted under this approval must not be conducted contrary to any of the following limitations:

(a) The total daily treatment design capacity of the sewage treatment plant must not exceed 35 equivalent persons (EP)

(b) Treated effluent must be disposed of via the sub surface Advanced Enviro-Septic (AES) infiltration beds; and

(c) The AES infiltration beds for each AES system must be located in the designated areas depicted in the drawings in Attachment 1 labelled:

- 1A Chardon Bridge Road, Cedar Creek QLD 4207, On-site wastewater and effluent disposal system locality plan - TE170439 – C- SL1, dated 9 August 2017;
- 1A Chardon Bridge Road, Cedar Creek QLD 4207, On-site wastewater and effluent disposal system, Detailed Site Plan - TE170439 – C – SL2, dated 9 August 2017.

G2 All reasonable and practicable **measures** must be taken to prevent the likelihood of environmental harm being caused.

G3 Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable, or at most, within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.

G4 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.

G5 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.

G6 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.

G7 An annual monitoring report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.

G8 **You** must record the following details for all environmental complaints received:
a) date and time complaint was received
b) name and contact details of the complainant
c) nature of the complaint
d) investigations undertaken
e) conclusions formed
f) actions taken.

G9 When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.

G10 Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.

G11 A **receiving environment monitoring program** must be designed and implemented by **appropriately qualified persons** to monitor the effects of the activity on land and groundwater.

G12 The **receiving environment monitoring program** required by condition G11 must be undertaken within 6 months of the date of this approval and annually thereafter and include at least the following:

For Land:

a) Monitor the capacity of the effluent disposal area to sustainably assimilate nutrient loads arising from the release of treated effluent from the sewage treatment works;
b) Include soil samples taken within 1m of the AES beds and at the depth of the base of the AES bed;
c) Soil and subsoil analysis, including assessment of the soils from reference and representative locations, including type, structure, pH, phosphorus adsorption level and capacity, nutrient status, salinity and sodicity and cation exchange capacity of the release areas;
d) Ensure the water balance of the soil, within and in the immediate vicinity of the effluent disposal area, is not adversely affected by the disposal of treated effluent;
e) Ensure vegetation is not damaged by the disposal of effluent;
f) Establish an inspection regime to ensure no surface ponding of effluent occurs from the disposal of effluent;
g) Ensure no migration of effluent beyond the area designated for the release of treated effluent;
h) Report the monitoring results and an assessment of the impact of the effluent releases to land.

Groundwater monitoring should:

a) be able to determine the impacts of the licensed activity on the groundwater quality in the underlying aquifer; and
b) include, but not be limited to, a sufficient number of bores (minimum of three) installed at locations and depths which yield representative groundwater samples from at least the upper-most aquifer so as to:
    i. establish the quality of groundwater that has not been affected by seepage or drainage of contaminants to groundwater from the activity; and

ii. detect any seepage of contaminants to groundwater from the licensed place; and
c) include monitoring of background groundwater quality, hydraulically up-gradient of any release of contaminants to groundwater; and
d) include monitoring of upstream groundwater quality, hydraulically down gradient of all storage ponds, sewage treatment plant and irrigation areas;
e) consider the potential use of groundwater in the vicinity.

G13 If you become aware that the disposal area has been adversely affected by the disposal of effluent, you must:
a) Within one (1) month of becoming aware of the adverse effect on the disposal area – give or send a written notice to the administering authority advising that the disposal area has been found to have been adversely affected; and
b) Within three (3) months of becoming aware of the adverse effect on the disposal area –
(i) Undertake, or commission the undertaking of, a study to identify appropriate remedial actions, including where necessary, identification of a new disposal area(s) that is suitable for the release of treated effluent; and
(ii) Give or send a complete and final report of the study to the administering authority.

G14 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. The only exception to this condition is for *in situ* monitoring.

W1 All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Acoustic

N1 Noise generated by the activity must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.

Air

A1 Odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.

Land

L1 Other than as permitted within this environmental authority, contaminants must not be released to land.

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
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**.

L4 All grass/vegetation clippings must be removed from the contaminant release area upon harvesting.

Water

WT1 Other than as permitted within this environmental authority, contaminants must not be released to any **waters**.

Definition

DEF 1 **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 Heritage Protection or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

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.

Design Average Dry Weather Flow (DADWF) means the average dry weather flow of the treatment plant at the design horizon.

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.

Land means any land, whether above or below the ordinary high-water mark at spring tides (i.e. includes tidal land).

Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

NATA means National Association of Testing Authorities.

Noxious means harmful or injurious to health or physical well-being.

Offensive means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

Prescribed contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

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.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:
a) a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
b) a motel, hotel or hostel; or
c) a kindergarten, school, university or other educational institution; or
d) a medical centre or hospital; or
e) a protected area under the Nature Conservation Act 1992, the Marine Parks Act 1992 or a World Heritage Area; or
f) a public thoroughfare, park or gardens; or
g) 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.

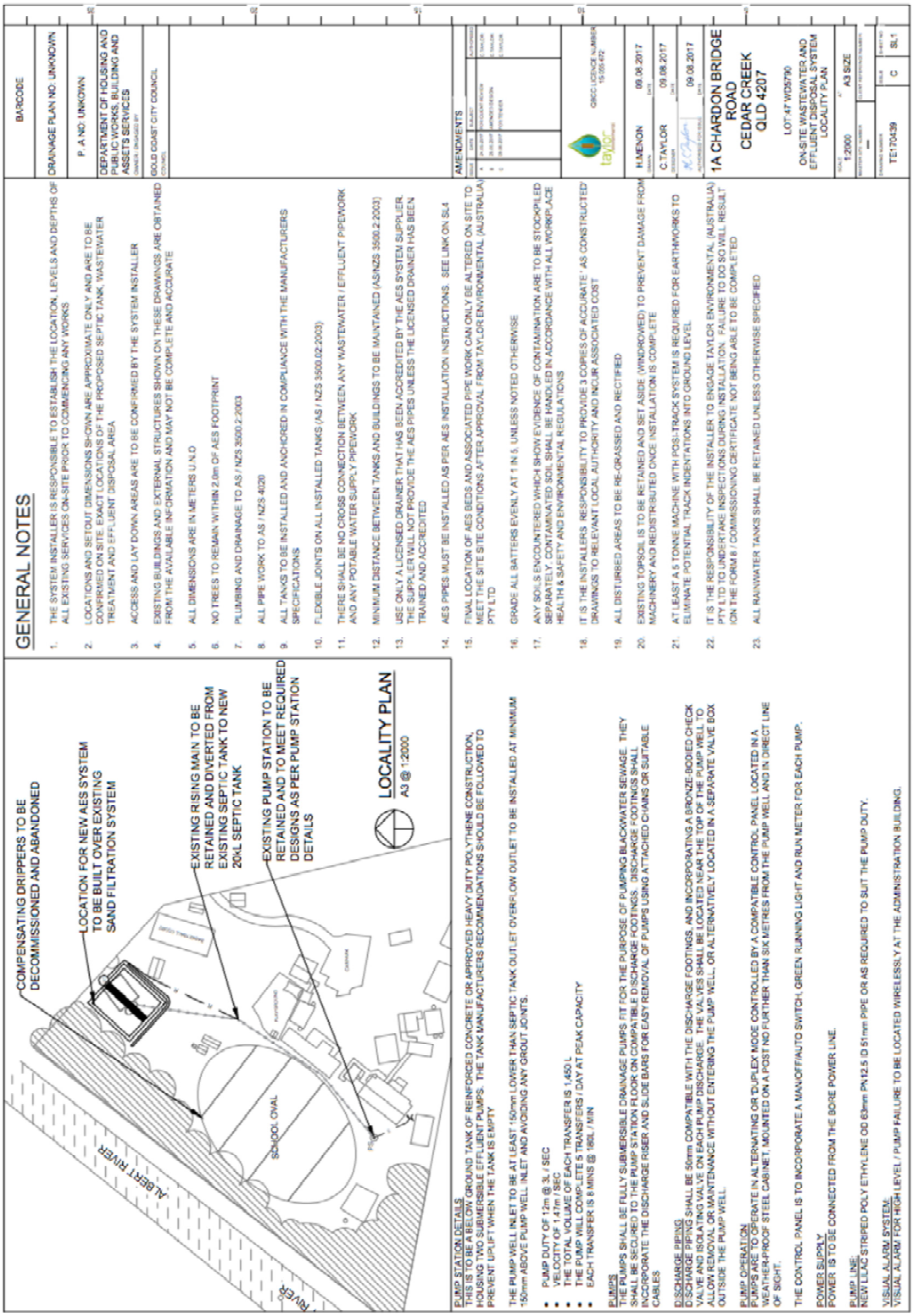
Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

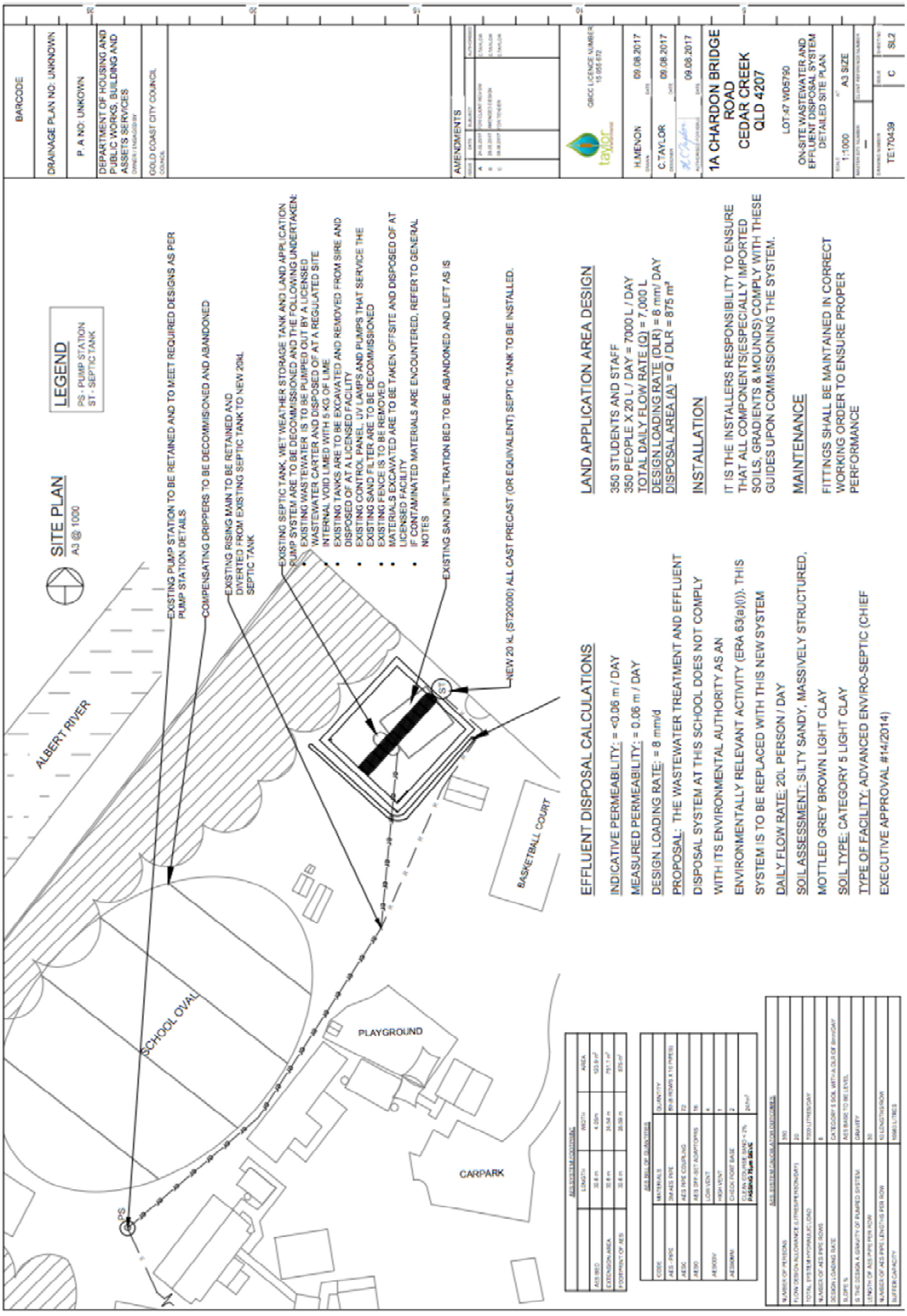
Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off,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

WaTERS is the Water Tracking and Electronic Reporting System database formally known as the Point Source Database.

You means the holder of the environmental authority.

Attachment 1 – AES system locality plan and detailed site plan




BARCODE
DRAINAGE PLAN NO: UNKNOWN
P. A NO: UNKOWN
DEPARTMENT OF HOUSING AND PUBLIC WORKS, BUILDING AND ASSETS SERVICES
GOLD COAST CITY COUNCIL
AMENDMENTS
QBCC LICENCE NUMBER 15 955 672
taylor
H.MENON 09.08.2017
C.TAYLOR 09.08.2017
09.08.2017
1A CHARDON BRIDGE ROAD
CEDAR CREEK
QLD 4207
LOT 47 WD5790
ON-SITE WASTEWATER AND EFFLUENT DISPOSAL SYSTEM
DETAILED SITE PLAN
1:1000
A3 SIZE
TE170439
C
SL2
SITE PLAN
A3 @ 1000
LEGEND
PS - PUMP STATION
ST - SEPTIC TANK
EXISTING PUMP STATION TO BE RETAINED AND TO MEET REQUIRED DESIGNS AS PER PUMP STATION DETAILS
COMPENSATING DRIPPERS TO BE DECOMMISIONED AND ABANDONED
EXISTING RISING MAIN TO BE RETAINED AND DIVERTED FROM EXISTING SEPTIC TANK TO NEW 20kL SEPTIC TANK
EXISTING SEPTIC TANK, WET WEATHER STORAGE TANK AND LAND APPLICATION PUMP SYSTEM ARE TO BE DECOMMISSIONED AND THE FOLLOWING UNDERTAKEN:
EXISTING WASTEWATER IS TO BE PUMPED OUT BY A LICENSED WASTEWATER CARTER AND DISPOSED OF AT A REGULATED SITE
INTERNAL VOID LIMED WITH 5 KG OF LIME
EXISTING TANKS ARE TO BE EXCAVATED AND REMOVED FROM SIRE AND DISPOSED OF AT A LICENSED FACILITY
EXISTING CONTROL PANEL, UV LAMPS AND PUMPS THAT SERVICE THE EXISTING SAND FILTER ARE TO BE DECOMMISSIONED
EXISTING FENCE IS TO BE REMOVED
MATERIALS EXCAVATED ARE TO BE TAKEN OFFSITE AND DISPOSED OF AT LICENSED FACILITY
IF CONTAMINATED MATERIALS ARE ENCOUNTERED, REFER TO GENERAL NOTES
EXISTING SAND INFILTRATION BED TO BE ABANDONED AND LEFT AS IS
NEW 20 kL (ST20000) ALL CAST PRECAST (OR EQUIVALENT) SEPTIC TANK TO BE INSTALLED.
ALBERT RIVER
SCHOOL OVAL
PLAYGROUND
CARPARK
BASKETBALL COURT
PS
ST
EFFLUENT DISPOSAL CALCULATIONS
INDICATIVE PERMEABILITY: = <0.06 m / DAY
MEASURED PERMEABILITY: = 0.06 m / DAY
DESIGN LOADING RATE: = 8 mm/d
PROPOSAL: THE WASTEWATER TREATMENT AND EFFLUENT DISPOSAL SYSTEM AT THIS SCHOOL DOES NOT COMPLY WITH ITS ENVIRONMENTAL AUTHORITY AS AN ENVIRONMENTALLY RELEVANT ACTIVITY (ERA 63(a)(i)). THIS SYSTEM IS TO BE REPLACED WITH THIS NEW SYSTEM
DAILY FLOW RATE: 20L PERSON / DAY
SOIL ASSESSMENT: SILTY SANDY, MASSIVELY STRUCTURED, MOTTLED GREY BROWN LIGHT CLAY
SOIL TYPE: CATEGORY 5 LIGHT CLAY
TYPE OF FACILITY: ADVANCED ENVIRO-SEPTIC (CHIEF EXECUTIVE APPROVAL #14/2014)
LAND APPLICATION AREA DESIGN
350 STUDENTS AND STAFF
350 PEOPLE X 20 L / DAY = 7000 L / DAY
TOTAL DAILY FLOW RATE (Q) = 7,000 L
DESIGN LOADING RATE (DLR) = 8 mm/ DAY
DISPOSAL AREA (A) = Q / DLR = 875 m²
INSTALLATION
IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE THAT ALL COMPONENTS(ESPECIALLY IMPORTED SOILS, GRADIENTS & MOUNDS) COMPLY WITH THESE GUIDES UPON COMMISSIONING THE SYSTEM.
MAINTENANCE
FITTINGS SHALL BE MAINTAINED IN CORRECT WORKING ORDER TO ENSURE PROPER PERFORMANCE