Permit

Environmental Protection Act 1994

Environmental authority EPPR00718613

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

Environmental authority number: EPPR00718613

Environmental authority takes effect on 1 September 2025.

The anniversary date of this environmental authority remains 16 October. The payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
Department of Environment, Science and Innovation	400 George Street BRISBANE CITY QLD 4000

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Dundubara Campground - Lot 21 Plan AP23770
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Eurong Ranger Station - Lot 23 Plan FS81
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Waddy Point Camping Area - Lot 21 Plan AP23770

Queensland Government

Environmentally relevant activities	Locations
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Central Station Camping Ground - Lot 21 Plan AP23770
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Great Sandy NP, Cooloola Section Freshwater Campground - Lot 1 Plan AP23771

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 land give written notice to the administering authority if they become aware of the following:

- the presence of, or happening of an event involving, a hazardous contaminant on the land that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours); or
- if the land is contaminated land – a change in the condition of the land that is causing, or is reasonably likely to cause, serious or material environmental harm (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 land (notice must be given within 20 business days).

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.

Signature	30/08/2024 Date

Rebecca Griffiths
Department of Environment, Science and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Industry and Development Business Centre
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)

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. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access State controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

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, Science and Innovation to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

PART 1: Common conditions for all sites

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Dundubara Campground - Lot 21 Plan AP23770
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Eurong Ranger Station - Lot 23 Plan FS81
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Waddy Point Camping Area - Lot 21 Plan AP23770
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Central Station Camping Ground - Lot 21 Plan AP23770
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Great Sandy NP, Cooloola Section Freshwater Campground - Lot 1 Plan AP23771

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following general conditions of approval.

Agency interest: General	
Condition number	**Condition**
1-G1.0	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused, or likely to be caused, by the **activity**.
1-G2.0	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to increase, the risk of environmental harm above that expressly provided by this approval.

1-G3.0	Unless specifically authorised by a condition of this environmental authority, this environmental authority does not authorise a relevant act, which is: a) an act that causes serious or material environmental harm or an environmental nuisance; or b) an act that contravenes a noise standard; or c) a deposit of a contaminant, or release of stormwater run-off, mentioned in section 440ZG of the *Environmental Protection Act 1994*.
1-G4.0	**Contravention of conditions** Unless specifically authorised by a condition of this environmental authority, details of any contravention of a condition of this environmental authority must: a) be reported to the **administering authority** within 24 hours of becoming aware of the contravention; and b) include the nature and circumstances of the contravention and any immediate actions taken.
1-G4.1	As soon as reasonably practicable but no later than 20 business days of a report made under condition 1-G4.0 (or a longer period agreed to in writing by the **administering authority**), an investigation must be undertaken to determine: a) the potential circumstances and actions that may have contributed to the contravention; and b) the environmental impact of the contravention; and c) reasonable and practicable **measures** that will be implemented to address the cause of the contravention to prevent future contraventions of this nature.
1-G4.2	As soon as reasonably practicable but no later than 20 business days of investigating a contravention under condition 1-G4.1 (or a longer period agreed to in writing by the **administering authority**), the reasonable and practicable **measures** identified in the investigation must be implemented.
1-G4.3	The outcome of the investigation carried out under condition 1-G4.1 and the reasonable and practicable **measures** implemented under condition 1-G4.2 must be recorded.
1-G5.0	**Complaints** The following details must be recorded for all **complaints** received and provided to the **administering authority** upon request: a) date and time the **complaint** was received; and b) if authorised by the person making the **complaint**, their name and contact details; and c) nature and details of the **complaint**.

1-G5.1	As soon as reasonably practicable but no later than 5 business days of receiving a **complaint** (or a longer period agreed to in writing by the **administering authority**), an investigation must be undertaken to determine: a) the potential circumstances and actions on **site** that may have contributed to the basis of the **complaint**; and b) reasonable and practicable **measures** that will be implemented to address the **complaint**.
1-G5.2	As soon as reasonably practicable but no later than 5 business days of investigating a **complaint** under condition 1-G5.1 (or a longer period agreed to in writing by the **administering authority**), the reasonable and practicable **measures** identified in the investigation must be implemented.
1-G5.3	The outcome of the investigation carried out under condition 1-G5.1 and the reasonable and practicable **measures** implemented under condition 1-G5.2 must be recorded.
1-G5.4	When requested in writing 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 to the **administering authority** upon request.
1-G6.0	**Environmental risk management procedures** Written procedures must be developed and implemented by an **appropriately qualified person** that ensure: a) all potential risks to the environment from the carrying out of the **activity** are identified and assessed, including: i) during routine operations; and ii) outside routine operations (e.g., maintenance, start up and shut down); and iii) during preparation, rehabilitation, and closure; and iv) in an emergency (e.g., fire, flood or other natural disaster); and b) for each potential risk identified, any necessary **measures** to prevent or minimise the potential for environmental harm are implemented; and c) staff understand their obligations under this environmental authority and the *Environmental Protection Act 1994*; and d) environmental risk management procedures are continually reviewed and improved, based on a reasonable risk-management approach.
1-G7.0	**Plant and equipment** An **appropriately qualified person** must install, operate, calibrate, and maintain the plant and equipment required to carry out the **activity** (including **monitoring** devices) in a proper and effective manner.
1-G7.1	**Records** of installation, calibration, and maintenance carried out under condition 1-G7.0 must be kept.

1-G8.0	**Record keeping** Unless otherwise specified by a condition of this environmental authority, **records** must be: a) kept for the period outlined in *Table 1 – Record keeping requirements*; and b) provided to the **administering authority** upon request and in the format requested. **Table 1 – Record keeping requirements** **Description of records** | **Retention requirement** **Monitoring** results | Retain for 15 years. All other **records** | Retain for 5 years.
1-G9.0	**Chemical storage** Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system**.
1-G10.0	**Monitoring and sampling** All **monitoring** and sampling required by the conditions of this environmental authority must be carried out, interpreted, and recorded by an **appropriately qualified person** in accordance with the methods prescribed in the latest edition of the **administering authority**'s *Monitoring and sampling manual* (available of the Queensland Government website) unless otherwise approved by the **administering authority**.
1-G10.1	Unless otherwise authorised in writing by the **administering authority**, all laboratory analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) accreditation for such analyses. The only exception to this condition is for *in situ* **monitoring** of pH, dissolved oxygen, electronic conductivity, and total chlorine.
1-G11.0	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
Schedule: Air	
1-A1.0	Odours or airborne contaminants from the **activity** must not cause environmental nuisance at a **sensitive place** or **commercial place**.
Schedule: Water	
1-WT1.0	Contaminants must not be released to any **waters**.
Schedule: Noise	
1-N1.0	Noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
Schedule: Waste	
1-W1.0	All waste generated in carrying out the **activity** must be lawfully reused, recycled or lawfully removed to a facility that can lawfully accept the waste.

PART 2: Site Specific conditions – Dundubara Campground

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Dundubara Campground – Lot 21 Plan AP23770

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site-specific conditions of approval.

Schedule: General	
Condition number	**Condition**
2-G1.0	**Activities** conducted under Part 2 of this environmental authority must not be conducted contrary to any of the following limitations: 1. inflows must not exceed the peak design capacity of 20kL/**day** equivalent to 100 equivalent persons (EP); 2. the disposal of treated **effluent** to **land** must be via sub surface irrigation; 3. **effluent** irrigation area must not be less than 0.35 hectares; 4. the disposal of **effluent** must be located in the designated areas depicted within plan titled 'Existing and Proposed STP Layout' for Dundubara Rangers Station and Campground STP upgrade, Design number: NPSR1657Crev14.9.16, dated 14/09/2016, provided by True Water Australia for Department of National Parks, Recreation, Sports and Racing, as provided as Appendix 1; and 5. the capacity of the wet weather storage must not be less than 90,000 litres.
2-G2.0	A Receiving Environment Monitoring Program (REMP) must be designed and implemented by **appropriately qualified persons** to **monitor** the effects of the **activity** on the environment.
2-G2.1	An Annual Monitoring Report must be prepared by an **appropriately qualified person** by 30 November each year, for the preceding financial year, and must be submitted to the **administering authority** upon request and within a timeframe (which must be at least 1 business day) specified by the **administering authority**.

Schedule: Land

2-L1.0

The only contaminants to be released to **land** are treated **effluent** to areas shown in Appendix 1 in accordance with the release limits stated in *Table 2 – Treated effluent release limits to land* and the associated requirements.

Table 2 – Treated effluent release limits to land

Monitoring Point	Parameter (units)	Release limits			Minimum Monitoring Frequency
		Minimum	80th %tile	Maximum	
Outlet of TWS (7)	Volume (L/ha/**day**) (4)	-	-	10,500L/**day** or equivalent to 3mm/**day** over 0.35ha	Daily
	BOD5 (mg/L) (5)	-	-	20	Quarterly
	Total Suspended Solids (mg/L) (5)	-	-	10	Quarterly
	Total Nitrogen (mg/L as N) (6)	-	20	25	Quarterly
	Total Phosphorus (mg/L as P) (6)	-	5	8	Quarterly
	Turbidity (NTU)	-	-	5	Quarterly
	pH (pH units)	5	-	8.5	Quarterly
	E.coli (CFU/100ml)	-	-	1000	Quarterly
	Total Dissolved Solids (mg/L)	-	-	1000	Quarterly
	Residual chlorine (mg/L)	-	-	1.5	Quarterly

Associated requirements

(1) Total **effluent** release area must not be less than 0.35 hectares as outlined in Appendix 1.

(2) **Monitoring** must be in accordance with the **administering authority**'s Water Quality Sampling Manual and all **monitoring** devices must be effectively calibrated and maintained.

(3) Releases of treated **effluent** must not be outside of the 'Irrigation Area' indicated in Appendix 1.

(4) Volume of release must be calculated based on the total irrigation area when releasing the maximum volume for the area of application based on the actual volume released.

(5) **BOD5** and Total Suspended Solids are about determining that the sewage treatment plant is achieving design outputs.

	(6) Indicators for **Total Nitrogen** and **Total Phosphorus** are recommended to be done as grab samples. (7) TWS: treated water storage facility as indicated in Appendix 2 Diagram of the Kubota Sewage Treatment Plant Plan View.
2-L2.0	Treated **effluent** released to **land** must be done in accordance with documentation that ensures: 1. drainage to groundwater and subsurface flows of contaminants to surface **waters** are prevented; 2. surface pondage and run-off of **effluent** is prevented; 3. degradation of soil structure is minimised; 4. soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; 5. spray drift or overspray does not carry beyond **effluent** disposal areas; 6. **effluent** disposal areas are maintained with an appropriate crop in a **viable state** for transpiration and nutrient uptake; and 7. sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
2-L3.0	When weather conditions or soil conditions preclude the release of treated sewage **effluent** to **land**, **effluent** must not be irrigated to **land**.
Schedule: Water	
2-WT1.0	The REMP required by condition 2-G2.0, must include at least the following for groundwater **monitoring**: 1. be able to determine the impacts of the licensed **activity** on the groundwater quality in the underlying aquifer; and 2. 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: a) establish the quality of groundwater that has not been affected by seepage or drainage of contaminants to groundwater from the **activity**; and b) detect any seepage of contaminants to groundwater from the licensed place; and 3. include **monitoring** of background groundwater quality, hydraulically up-gradient of any release of contaminants to groundwater; and 4. include **monitoring** of upstream groundwater quality, hydraulically down gradient of all storage ponds, sewage treatment plant and irrigation areas; 5. include, but not limited to, annually **monitoring** of the quality of groundwater to detect any possible release(s) of contaminants; and 6. consider the potential use of groundwater in the vicinity.
2-WT1.1	Should contaminant levels measured in groundwater **monitoring** bores indicate an increase above 10% of the background reading, the **administering authority** must be immediately notified about the **monitoring** results, an investigation conducted to determine whether the increase has been caused by **effluent** irrigation, and the results submitted to the **administering authority** within 5 weeks from the date the **administering authority** was notified about the **monitoring** results.

PART 3: Site Specific conditions – Eurong Ranger Station

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Eurong Ranger Station – Lot 23 Plan FS81

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site-specific conditions of approval.

Schedule: General	
Condition number	**Condition**
3-G1.0	**Activities** conducted under Part 3 of this environmental authority must not be conducted contrary to any of the following limitations: 1. inflows must not exceed the peak design capacity of 10kL/**day** equivalent to 50 equivalent persons (EP); 2. the disposal of treated **effluent** to **land** must be via sub surface irrigation; 3. **effluent** irrigation area must not be less than 0.15 hectares; 4. the disposal of treated **effluent** must be located in the designated areas depicted within plan titled 'Works as Executed", Design number: NPSR1656C, dated 07/12/2016, provided by True Water Australia for Department of National Parks, Recreation, Sports and Racing, as provided as Appendix 3; and 5. the capacity of the wet weather storage must not be less than 25,000 litres.
3-G2.0	A Receiving Environment Monitoring Program (REMP) must be designed and implemented by **appropriately qualified persons** to **monitor** the effects of the **activity** on the environment.
3-G2.1	An Annual Monitoring Report must be prepared by an **appropriately qualified person** by 30 November each year, for the preceding financial year, and must be submitted to the **administering authority** upon request and within a timeframe (which must be at least 1 business day) specified by the **administering authority**.

Schedule: Land

3-L1.0

The only contaminants to be released to **land** are treated **effluent** to areas shown in Appendix 3 in accordance with the release limits stated in *Table 3 – Treated effluent release limits to land* and the associated requirements.

Table 3 – Treated effluent release limits to land

Monitoring Point	Parameter (units)	Release limits			Minimum Monitoring Frequency
		Minimum	80th %tile	Maximum	
Outlet of TWS (7)	Volume (L/ha/**day**) (4)	-	-	3,750L/**day** or equivalent to 2.5mm/**day** over 0.15ha	Daily
	BOD5 (mg/L) (5)	-	-	20	Quarterly
	Total Suspended Solids (mg/L) (5)	-	-	10	Quarterly
	Total Nitrogen (mg/L as N) (6)	-	20	25	Quarterly
	Total Phosphorus (mg/L as P) (6)	-	5	8	Quarterly
	pH (pH units)	5	-	8.5	Quarterly
	Turbidity (NTU)	-	-	5	Quarterly
	E.coli (CFU/100ml)	-	-	1000	Quarterly
	Total Dissolved Solids (mg/L)	-	-	1000	Quarterly
	Residual chlorine (mg/L)	-	-	1.5	Quarterly

Associated requirements

(1) Total **effluent** release area must not be less than 0.15 hectares as outlined in Appendix 3.

(2) **Monitoring** must be in accordance with the **administering authority**'s Water Quality Sampling Manual and all **monitoring** devices must be effectively calibrated and maintained.

(3) Releases of treated **effluent** must not be outside of the 'Irrigation Zones' indicated in Appendix 3.

(4) Volume of release must be calculated based on the total **effluent** release area when releasing the maximum volume or the worked out for the area of application based on the actual volume released.

(5) **BOD5** and Total Suspended Solids are about determining that the sewage treatment plant is achieving design outputs.

	(6) Indicators for **Total Nitrogen** and **Total Phosphorus** are recommended to be done as grab samples. (7) TWS: treated water storage facility as indicated in Appendix 4 diagram of the Eurong Rangers Station STP Schematic & General Arrangement.
3-L2.0	Treated **effluent** released to **land** must be done in accordance with documentation that ensures: 1. drainage to groundwater and subsurface flows of contaminants to surface **waters** are prevented; 2. surface pondage and run-off of **effluent** is prevented; 3. degradation of soil structure is minimised; 4. soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; 5. spray drift or overspray does not carry beyond **effluent** disposal areas; 6. **effluent** disposal areas are maintained with an appropriate crop in a **viable state** for transpiration and nutrient uptake; and 7. sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
3-L3.0	When weather conditions or soil conditions preclude the release of treated sewage **effluent** to **land**, **effluent** must not be irrigated to **land**.
Schedule: Water	
3-WT1.0	The REMP required by condition 3-G2.0, must include at least the following for groundwater **monitoring**: 1. be able to determine the impacts of the licensed **activity** on the groundwater quality in the underlying aquifer; and 2. 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: a) establish the quality of groundwater that has not been affected by seepage or drainage of contaminants to groundwater from the **activity**; and b) detect any seepage of contaminants to groundwater from the licensed place; and 3. include **monitoring** of background groundwater quality, hydraulically up-gradient of any release of contaminants to groundwater; and 4. include **monitoring** of upstream groundwater quality, hydraulically down gradient of all storage ponds, sewage treatment plant and irrigation areas; 5. include, but not limited to, annually **monitoring** of the quality of groundwater to detect any possible release(s) of contaminants; and 6. consider the potential use of groundwater in the vicinity.
3-WT1.1	Should contaminant levels measured in groundwater **monitoring** bores indicate an increase above 10% of the background reading, the **administering authority** must be immediately notified about the **monitoring** results, an investigation conducted to determine whether the increase has been caused by **effluent** irrigation, and the results submitted to the **administering authority** within 5 weeks from the date the **administering authority** was notified about the **monitoring** results.

PART 4A: Site Specific conditions – Waddy Point Camping Area (Stage 1)

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Waddy Point Camping Area – Lot 21 Plan AP23770

Stage 1 of the environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site-specific conditions of approval.

Schedule: General	
Condition number	**Condition**
4A-G1.0	The **activity** conducted under Part 4A of this environmental authority must not be conducted contrary to any of the following limitations: a) inflows must not exceed the peak design capacity of 17.43kL/**day** equivalent to 87.15 equivalent persons (EP); b) disposal of **effluent** to be carried out within the dedicated area depicted in the attached plan titled 'Potential Irrigation Areas' for Waddy Point Top Camping Area, Job Number: 3832-110215-1.0, Client: QPWS and provided as Appendix 7; c) **effluent** irrigation area must not be less than 0.55 hectares; and d) the capacity of the wet weather storage must not be less than 80,000 litres; and e) sewage treatment must only be carried out in accordance with **Stage 1** of the **activity**.
4A-G2.0	A receiving environment monitoring program (REMP) must be designed and implemented by **appropriately qualified persons** to **monitor** the effects of the **activity** on the environment.
4A-G2.1	An Annual Monitoring Report must be prepared by an **appropriately qualified person** by 30 November each year, for the preceding financial year, and must be submitted to the **administering authority** upon request and within a timeframe (which must be at least 1 business day) specified by the **administering authority**.

Schedule: Land	
4A-L1.0	The only contaminants to be released to **land** are treated **effluent** to areas shown in Appendix 7 in accordance with the release limits stated in *Table 4A – Treated effluent release limits to land* and the associated requirements.

Table 4A – Treated effluent release limits to land

Monitoring location	**Parameter (units)**	**Release limits**		**Minimum monitoring frequency**
		Minimum	**Maximum**	
M1(6)	**BOD5** (mg/L)(4)	-	20	Monthly
	Total Suspended Solids (mg/L)(4)	-	30	Monthly
	Total Nitrogen (mg/L as N)(5)	-	10	Monthly
	Total Phosphorus (mg/L as P)(5)	-	5	Monthly
	pH (pH units)	6	8.5	Monthly
	E. coli (cfu/100ml)	-	100	Monthly

Associated requirements

(1) Total **effluent** irrigation area must not be less than 0.55 hectares as outlined in Appendix 7.
(2) **Monitoring** must be in accordance with the **administering authority**'s Water Quality Sampling Manual and all **monitoring** devices must be effectively calibrated and maintained.
(3) Releases of treated **effluent** must not be outside of the 'Potential Irrigation Areas' indicated in Appendix 7.
(4) **BOD5** and Total Suspended Solids are about determining that the sewage treatment plant is achieving design outputs.
(5) Indicators for **Total Nitrogen** and **Total Phosphorus** are recommended to be done as grab samples.
(6) M1: **Monitoring** samples shall be taken from a designated sampling point on the **effluent** discharge line, immediately downstream of the disinfection system.

4A-L2.0	Designated **effluent** irrigation areas must only be located within previously cleared or disturbed areas.
4A-L3.0	The flow to each irrigation area must be **monitored** and recorded on at least a quarterly basis over a 7 **day** period. At least one quarterly **monitoring** period each year must occur during a period of which several days of peak flow from the development would be expected to occur (i.e. Christmas, Easter or School Holidays).

4A-L4.0	The REMP required by condition 4A-G2.0, must include at least the following soil **monitoring**: A soil survey that ensures that the capacity of the **land** to assimilate nitrogen, phosphorus, salts and organic matter is not exceeded. The survey needs to include: a) 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 b) soil **monitoring** to be undertaken biennially; and c) determination of the quantity and quality of contaminants applied to the soils from the recycled water irrigation; and d) 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 e) reporting of **monitoring** results and an assessment of the impact of the releases on the irrigation areas.
Schedule: Water	
4A-WT1.0	The REMP required by condition 4A-G2.0, must include at least the following for groundwater **monitoring**: 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) include, but not limited to, annually **monitoring** of the quality of groundwater to detect any possible release(s) of contaminants; and f) consider the potential use of groundwater in the vicinity.
4A-WT1.1	Should contaminant levels measured in groundwater monitoring bores indicate an increase above 10% of the background reading, the **administering authority** must be immediately notified about the **monitoring** results, an investigation conducted to determine whether the increase has been caused by effluent irrigation, and the results submitted to the **administering authority** within 5 weeks from the date the **administering authority** was notified about the monitoring results.

PART 4B: Site Specific conditions – Waddy Point Camping Area (Stage 2)

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Waddy Point Camping Area - Lot 21 Plan AP23770

Stage 2 of the environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site-specific conditions of approval.

Schedule: General	
4B-G1.0	The **activity** conducted under Part 4B of this environmental authority must not be conducted contrary to any of the following limitations: a) inflows into the sewage treatment plant must not exceed 20,000 litres on any **day**; and b) sewage treatment must only be carried out in accordance with **Stage 2** of the **activity**.
4B-G2.0	A Receiving Environment Monitoring Program (REMP) must be designed and implemented by an **appropriately qualified person** to **monitor** the effects of the **activity** on the environment.
4B-G2.1	The REMP required by condition 4B-G2.0, must include at least the following monitoring programs in accordance with conditions of this environmental authority: a) a Land Monitoring Program as required by condition 4B-L4.0; and b) a Vegetation Monitoring Program as required by condition 4B-L5.0; and c) a Groundwater Monitoring Program as required by condition 4B-WT1.0.
4B-G2.2	The REMP required by condition 4B-G2.0 must be submitted to the **administering authority** upon request and within a timeframe (which must be at least 1 business day) specified by the **administering authority**.
4B-G2.3	Any comments made by the **administering authority** on the REMP required by condition 4B-G2.0 must be addressed to the reasonable satisfaction and within a timeframe (which must be at least 5 business days) specified by the **administering authority**.
4B-G2.4	An Annual Monitoring Report must be prepared by an **appropriately qualified person** by 30 November each year, for the preceding financial year, and must be submitted to the **administering authority** upon request and within a timeframe (which must be at least 1 business day) specified by the **administering authority**.
Schedule: Air	
4B-A1.0	**Effluent** spray must not move beyond the **effluent** disposal area identified in Appendix 5.

4B-A2.0	Warning signs must be installed and maintained at all **land** application areas within the **effluent** disposal area with clearly visible wording that states 'Recycled Water – Avoid Contact – Do Not Drink'.
4B-A3.0	**Effluent** must only be disposed to the **effluent** disposal area, identified in Appendix 5, via subsurface irrigation or heavy droplet/low plume surface irrigation.
Schedule: Land	
4B-L1.0	Contaminants generated by the **activity** must only be released to the **effluent** disposal area identified in Appendix 5.
4B-L1.1	Contaminants generated by the **activity** must only be released to the **effluent** disposal area, identified in Appendix 5, where the following requirements are complied with: a) the release limits for each parameter are complied with at the **monitoring** location as specified in *Table 4B – Contaminant limits for releases to land*; and b) releases are **monitored** at the **monitoring** location and at the minimum **monitoring** frequency for each parameter specified in *Table 4B – Contaminant limits for releases to land*.

Table 4B – Contaminant limits for releases to land

Monitoring location	Parameter (units)	Release limits			Minimum monitoring frequency
		Minimum	Mean	Maximum	
Waddy Point wastewater treatment plant (WWTP) compound located at Easting 533880 and Northing 7238672 (GDA2020 MGA zone 56), from a sample point located after disinfection and prior to release to land.	Irrigation volume (L/**day**)	-	9,500	-	Daily
	Irrigation rate (mm/**day**)	-	1.2	3	Daily
	Total Nitrogen, TN (mg/L as N)	-	30	60	Monthly
	Total Phosphorus, TP (mg/L as P)	-	10	20	Monthly
	E. coli (cfu/100mL)	-	-	10	Monthly
	pH (pH units)	6	-	8.5	Quarterly
	Electrical Conductivity (EC) (µS/cm)	-	-	2,000	Quarterly

4B-L1.2	**Monitoring** required by condition 4B-L1.1 must be undertaken when **effluent** is being disposed, unless **effluent** disposal has ceased for longer than the relevant parameters specified minimum frequency (e.g., if pH was only required to be **monitored** once a week, then a pH sample would not be required after the first week following cessation of the release).
4B-L1.3	The irrigation rate **monitoring** required by condition 4B-L1.1 must be determined for each **day** that irrigation occurs, and the following **records** must be kept: a) a determination of the daily irrigation rate (mm/**day**); and b) the relevant date(s) for each daily irrigation rate determined; and c) the method for determining the daily irrigation rate.
4B-L1.4	**Mean** calculations required by condition 4B-L1.1 must be taken as a Long-Term Rolling Limit, meaning a limit applied to consecutive samples taken over a 12-month period (on a rolling basis for limit calculations) where consecutive samples are taken at the minimum frequency specified in *Table 4B – Contaminant limits for releases to land*.
4B-L1.5	Volume **monitoring** required by condition 4B-L1.1 must be undertaken using a flow meter.
4B-L1.6	**Effluent** disinfection must be undertaken using UV (ultraviolet) treatment, or may be undertaken using chlorine dosing where the following requirements are complied with: a) the concentration of total chlorine (mg/L) in **effluent** released to **land** must not exceed 2 mg/L on any **day**; and b) total chlorine must be **monitored** at a minimum **monitoring** frequency of quarterly at the **monitoring** location identified in *Table 4B – Contaminant limits for releases to land*.
4B-L2.0	The **effluent** disposal area identified in Appendix 5, must have a minimum surface area of 7,900 square metres.
4B-L2.1	The release of **effluent** must be undertaken in a manner that ensures even distribution of **effluent** within any rotational areas or irrigation zones, and across the total **effluent** disposal area shown in Appendix 5.
4B-L2.2	When soil in the **effluent** disposal area is **saturated**, **effluent** must not be released to **land**.
4B-L2.3	All organic material removed from vegetation growing in the **effluent** disposal area, identified in Appendix 5, must be transported and disposed of in an area other than in the **effluent** disposal area.
4B-L2.4	Ponding of **effluent** within the **effluent** disposal area shown in Appendix 5, must not occur.
4B-L2.5	Contaminants must not run off to areas beyond the **effluent** disposal area shown in Appendix 5.
4B-L2.6	Soil structure must not be degraded as a result of the **activity**.

4B-L2.7	The build-up of nutrients, salinity, sodicity and heavy metals in the soil and subsoil must be minimised.
4B-L2.8	The **effluent** disposal area shown in Appendix 5, must be maintained with an appropriate crop in a **viable state**.
4B-L3.0	Wet weather storage, with a minimum volume of 85,000 litres must be installed and maintained on the **site** for the storage of **effluent**.
4B-L4.0	**Land Monitoring Program** By 16 March 2026, a Land Monitoring Program (LMP) must be: a) designed and implemented by an **appropriately qualified person** to **monitor** the effects of the **activity** on **land**; and b) reviewed annually by an **appropriately qualified person** and certified as being appropriate to **monitor** the effects of the **activity** on **land**.
4B-L4.1	The LMP required by condition 4B-L4.0 must include: a) taking soil samples at a soil depth range of 0-30cm and 30-60cm from **monitoring** locations specified in *Table 5 – Land Monitoring Plan*; and b) **monitoring** at the **monitoring** locations, and at the minimum **monitoring** frequency, and for the parameters specified in *Table 5 – Land Monitoring Plan*. **Table 5 – Land Monitoring Plan**

Monitoring locations	Parameter (units)	Minimum monitoring frequency
At least one (1) reference location, and three (3) representative locations within the **effluent** disposal area identified in Appendix 5.	Soil texture class	Annually
	Emerson aggregate stability test	
	pH (pH units)	
	Total kjeldahl nitrogen (mg/kg)	
	Nitrate (mg/kg)	
	Colwell phosphorus (mg/kg)	
	Electrical Conductivity (EC) (µS/cm)	
	Exchangeable sodium percentage (%)	
	Phosphorus Buffering Index (PBI)	

4B-L4.2	The LMP required by condition 4B-L4.0 must include observations recorded at the time soil samples are taken, that record the extent to which there is evidence of: a) **effluent** disposal induced surface runoff occurring to areas outside the **effluent** disposal area; and b) surface ponding of **effluent** occurring.

4B-L4.3	The LMP required by condition 4B-L4.0 must include: a) the development of trigger values; and b) the development of management actions to mitigate any adverse impacts caused, or likely to be caused, by the **activity**; and c) the implementation of the management actions if an LMP trigger value is reached.
4B-L4.4	A report summarising the results of the LMP (LMP Report) must be prepared by an **appropriately qualified person** and included within the Annual Monitoring Report required under condition 4B-G2.4.
4B-L4.5	The LMP Report required by condition 4B-L4.4 must include: a) a summary of the **monitoring** data obtained under the LMP in the relevant financial year; and b) an evaluation of all relevant data obtained under the LMP, and include graphical representations showing all relevant historical data and a comparison of data trends against LMP trigger values; and c) a description of all actions taken to minimise the environmental risk in response to information obtained through the LMP, including actions taken where trigger values in the LMP were reached; and d) the results of those management actions.
4B-L4.6	The LMP Report required by condition 4B-L4.4 must include analysis and interpretation of **monitoring** results by an **appropriately qualified person** that, for the **effluent** disposal area identified in Appendix 5, determines: a) the ongoing capacity of the **effluent** disposal area to sustainably receive **effluent** releases from the **activity**, including but not limited to the capacity of the **effluent** disposal area to sustainably adsorb nutrient loads from the **activity**; and b) whether the **effluent** disposal area is sufficient in size for the volume of **effluent** disposed of to **land**; and c) whether contaminants generated by the **activity** have migrated beyond the **effluent** disposal area; and d) how the soil in the **effluent** disposal area has been impacted by the **activity**.
4B-L4.7	The LMP Report required by condition 4B-L4.4 must include recommended action(s) to mitigate any adverse impacts caused, or likely to be caused, by the **activity** in respect of **effluent** releases to **land**.
4B-L4.8	Any action(s) recommended under condition 4B-L4.7 in the LMP Report must be undertaken: a) as soon as practicable, but no later than 10 business days after receiving the LMP Report; or b) another period agreed to in writing by the **administering authority**.

4B-L5.0	**Vegetation Monitoring Program** By 16 March 2026, a Vegetation Monitoring Program (VMP) must be: a) designed and implemented by an **appropriately qualified person** to **monitor** the effects of the **activity** on the vegetation within the **effluent** disposal area identified in Appendix 5; and b) reviewed annually by an **appropriately qualified person** and certified as being appropriate to **monitor** the effects of the **activity** on the vegetation within the **effluent** disposal area identified in Appendix 5.
4B-L5.1	The VMP required by condition 4B-L5.0 must include quarterly **monitoring** that, for the **effluent** disposal area identified in Appendix 5, includes: a) visual **monitoring** of vegetation within the **effluent** disposal area; and b) representative photographs of vegetation within the **effluent** disposal area; and c) a calculation of the total percentage of **vegetation cover** in a **viable state** over the **effluent** disposal area; and d) a comparison of results of the **monitoring** undertaken with previous **monitoring**, including (photo)graphical representations showing relevant limits, and trends.
4B-L5.2	If a calculation made under the VMP demonstrates that the percentage of **vegetation cover** in a **viable state** within the **effluent** disposal area, shown in Appendix 5, is below 85%: a) within 10 business days of that calculation being made, recommended action(s) to restore at least 85% of the **vegetation cover** to a **viable state** in the **effluent** disposal area must be prepared by an **appropriately qualified person**; and b) within 20 business days of receiving those recommended action(s), **measures** must be taken to implement the recommended action(s), or a different timeframe for taking such action(s) agreed to in writing by the **administering authority**.
4B-L5.3	A report summarising the results of the VMP (VMP Report) must be prepared by an **appropriately qualified person** and included within the Annual Monitoring Report required under condition 4B-G2.4.
4B-L5.4	The VMP Report required by condition 4B-L5.3 must include: a) a summary of the previous 12 months **monitoring** data obtained under the VMP; and b) an evaluation of all relevant data obtained under the VMP, including all relevant historical data and any data trends; and c) a description of all actions taken to improve the **viable state** of vegetation in the **effluent** disposal area in response to a requirement under condition 4B-L5.2.

Schedule: Water	
4B-WT1.0	**Groundwater Monitoring Program** By 16 March 2026, a Groundwater Monitoring Program (GWMP) must be: a) designed and implemented by an **appropriately qualified person** with experience and qualifications in groundwater **monitoring**, to **monitor** the effects of the **activity** on groundwaters; and b) reviewed annually by an **appropriately qualified person** and certified as being appropriate to **monitor** the effects of the **activity** on groundwaters.
4B-WT1.1	The GWMP required by condition 4B-WT1.0 must include: a) clearly stated aims and objectives; and b) a **monitoring** program that is developed using the latest version of the **administering authority**'s guideline *Using monitoring data to assess groundwater quality and potential environmental impacts*, and that specifies: i) groundwater flow characteristics, including hydraulic gradient, for the groundwater that could be impacted by the **activity** (potentially impacted GW); and ii) surface **waters** that could interact with potentially impacted GW (potentially impacted SW); and iii) the environmental values of the potentially impacted GW and the potentially impacted SW; and iv) cumulative impacts on the potentially impacted GW; and v) the spatial extent of the **monitoring** program, including the location of **monitoring** bores required under condition 4B-WT1.2; and vi) the temporal context of the **monitoring** program, including timing and frequency of sampling.
4B-WT1.2	An **appropriately qualified person** must install groundwater **monitoring** bores that enable **monitoring** from: a) the uppermost aquifer; and b) control location(s) that are suitable for establishing a background or other referable environmental value for the potentially impacted GW; and c) test location(s) that are suitable for determining the extent to which the potentially impacted GW are, or are potentially, being impacted by the **activity**; and d) for potentially impacted GW, hydraulically up-gradient bore(s) and hydraulically down-gradient bore(s) of the **activity**.

<table>
<tr><td>4B-WT1.3</td><td>
Monitoring under the GWMP required by condition 4B-WT1.0 must include:
monitoring of the receiving environment at the monitoring location(s), and at the minimum monitoring frequency, and for the parameters specified in Table 6 – Groundwater Monitoring Program.
Table 6 – Groundwater Monitoring Program
<table>
<tr><th>Monitoring locations</th><th>Parameter (units)</th><th>Minimum monitoring frequency</th></tr>
<tr><td rowspan="6">A sufficient number of bores (minimum of three) installed at locations and depths which yield representative groundwater samples in accordance with condition 4B-WT1.2.</td><td>pH</td><td rowspan="6">Annually</td></tr>
<tr><td>Electrical Conductivity (µS/cm)</td></tr>
<tr><td>Total Nitrogen TN (mg/L)</td></tr>
<tr><td>Total Phosphorus TP (mg/L)</td></tr>
<tr><td>Calcium, Chloride, Potassium, Magnesium, Sodium, Sulphate, Bicarbonate, and Carbonate (mg/L)</td></tr>
<tr><td>Standing groundwater level (m)</td></tr>
</table>
</td></tr>
<tr><td>4B-WT1.4</td><td>
The GWMP required by condition 4B-WT1.0 must include:
the development of trigger values for the potentially impacted GW; and
procedures to determine when trigger values are reached; and
the development of management actions to mitigate any adverse impacts caused, or likely to be caused, by the activity; and
the implementation of the management actions if an GWMP trigger value is reached.
</td></tr>
<tr><td>4B-WT1.5</td><td>A report summarising the results of the GWMP (GWMP Report) must be prepared by an appropriately qualified person and included within the Annual Monitoring Report required under condition 4B-G2.4.</td></tr>
<tr><td>4B-WT1.6</td><td>
The GWMP Report required by condition 4B-WT1.5 must include:
a summary of the monitoring data obtained under the GWMP in the relevant financial year; and
an evaluation of all relevant data obtained under the GWMP, including graphical representations showing all relevant historical data and a comparison of data trends against the GWMP trigger values; and
a description of all actions taken to minimise the environmental risk in response to data or other information obtained during the GWMP, including actions taken where GMPW trigger values were reached; and
the results of those management actions.
</td></tr>
</table>

4B-WT1.7	The GWMP Report required by condition 4B-WT1.5 must include analysis and interpretation of **monitoring** results by an **appropriately qualified person** that determines: a) whether any deep drainage of contaminants from the **activity** into groundwater has occurred; and b) how the groundwater has been impacted by the **activity**.
4B-WT1.8	The GWMP Report required by condition 4B-WT1.5 must include recommended action(s) to mitigate any adverse impacts caused, or likely to be caused, by the **activity** in respect of potentially impacted GW.
4B-WT1.9	Any action(s) recommended by the GWMP Report must be undertaken: a) as soon as practicable, and no more than 10 business days after receiving the GWMP Report; or b) another period agreed to in writing by the **administering authority**.
Schedule: Waste	
4B-W1.0	Written procedures must be developed and implemented which identify **measures** to ensure that fluctuations in inflow rates to the sewage treatment plant throughout the year do not adversely impact the ability of the sewage treatment plant to treat sewage.

PART 5: Site Specific conditions – Central Station Camping Ground

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Central Station Camping Ground - Lot 21 Plan AP23770

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site-specific conditions of approval.

Schedule: General	
5-G1.0	Inflows into the sewage treatment plant must not exceed 10,000 litres on any **day**.
5-G2.0	A Receiving Environment Monitoring Program (REMP) must be designed and implemented by an **appropriately qualified person** to **monitor** the effects of the **activity** on the environment.
5-G2.1	The REMP required by condition 5-G2.0, must include at least the following **monitoring** programs in accordance with conditions of this environmental authority; a) a Land Monitoring Program as required by condition 5-L4.0; and b) a Vegetation Monitoring Program as required by condition 5-L5.0.
5-G2.2	The REMP required by condition 5-G2.0 must be submitted to the **administering authority** upon request and within a timeframe (which must be at least 1 business day) specified by the **administering authority**.
5-G2.3	Any comments made by the **administering authority** on the REMP required by condition 5-G2.0 must be addressed to the reasonable satisfaction and within a timeframe (which must be at least 5 business days) specified by the **administering authority**.
5-G2.4	An Annual Monitoring Report must be prepared by an **appropriately qualified person** by 30 November each year, for the preceding financial year, and must be submitted to the **administering authority** upon request and within a timeframe (which must be at least 1 business day) specified by the **administering authority**.
Schedule: Air	
5-A1.0	**Effluent** spray must not move beyond the **effluent** disposal area identified in Appendix 6.
5-A2.0	Warning signs must be installed and maintained at all **land** application areas within the **effluent** disposal area with clearly visible wording that states ‘Recycled Water – Avoid Contact – Do Not Drink’.

Schedule: Land	
5-L1.0	Contaminants generated by the **activity** must only be released to the **effluent** disposal area identified in Appendix 6.
5-L1.1	Contaminants generated by the **activity** must only be released to the **effluent** disposal area, identified in Appendix 6, where the following requirements are complied with: a) the release limits for each parameter are complied with at the **monitoring** location as specified in *Table 7 – Contaminant limits for releases to land*; and b) releases are **monitored** at the **monitoring** location and at the minimum **monitoring** frequency for each parameter specified in *Table 7 – Contaminant limits for releases to land*.

Table 7 – Contaminant limits for releases to land

Monitoring location	**Parameter (units)**	**Release limits**			**Minimum monitoring frequency**
		Minimum	**Mean**	**Maximum**	
Central Station wastewater treatment plant (WWTP) compound located at Easting 505849 and Northing 7182562 (GDA2020 MGA zone 56), from a sample point located after disinfection and prior to release to land.	Irrigation volume (L/**day**)	-	7,500	-	Daily
	Irrigation rate (mm/**day**)	-	0.5	2	Daily
	Total Nitrogen, TN (mg/L as N)	-	30	60	Monthly
	Total Phosphorus, TP (mg/L as P)	-	10	20	Monthly
	E. coli (cfu/100mL)	-	-	100	Monthly
	pH (pH units)	6	-	8.5	Quarterly
	Electrical Conductivity (EC) (µS/cm)	-	-	2,000	Quarterly

5-L1.2	**Monitoring** required by condition 5-L1.1 must be undertaken when **effluent** is being disposed, unless **effluent** disposal has ceased for longer than the relevant parameters specified minimum frequency (e.g., if pH was only required to be **monitored** once a week, then a pH sample would not be required after the first week following cessation of the release).
5-L1.3	The irrigation rate **monitoring** required by condition 5-L1.1 must be determined for each **day** that irrigation occurs, and the following **records** must be kept: a) a determination of the daily irrigation rate (mm/**day**); and b) the relevant date(s) for each daily irrigation rate determined; and c) the method for determining the daily irrigation rate.

5-L1.4	**Mean** calculations required by condition 5-L1.1 must be taken as a Long-Term Rolling Limit, meaning a limit applied to consecutive samples taken over a 12-month period (on a rolling basis for limit calculations) where consecutive samples are taken at the minimum frequency specified in *Table 7 – Contaminant limits for releases to land*.
5-L1.5	Volume **monitoring** required by condition 5-L1.1 must be undertaken using a flow meter.
5-L1.6	**Effluent** disinfection must be undertaken using UV (ultraviolet) treatment, or may be undertaken using chlorine dosing where the following requirements are complied with: a) the concentration of total chlorine (mg/L) in **effluent** released to **land** must not exceed 2 mg/L on any **day**; and b) total chlorine must be **monitored** at a minimum **monitoring** frequency of quarterly at the **monitoring** location identified in *Table 7 – Contaminant limits for releases to land*.
5-L2.0	The **effluent** disposal area identified in Appendix 6, must have a minimum surface area of 15,000 square metres.
5-L2.1	The release of **effluent** must be undertaken in a manner that ensures even distribution of **effluent** within any rotational areas or irrigation zones, and across the total **effluent** disposal area shown in Appendix 6.
5-L2.2	When soil in the **effluent** disposal area is **saturated**, **effluent** must not be released to **land**.
5-L2.3	All organic material removed from vegetation growing in the **effluent** disposal area, identified in Appendix 6, must be transported and disposed of in an area other than in the **effluent** disposal area.
5-L2.4	Ponding of **effluent** within the **effluent** disposal area shown in Appendix 6, must not occur.
5-L2.5	Contaminants must not run off to areas beyond the **effluent** disposal area shown in Appendix 6.
5-L2.6	Soil structure must not be degraded as a result of the **activity**.
5-L2.7	The build-up of nutrients, salinity, sodicity and heavy metals in the soil and subsoil must be minimised.
5-L2.8	The **effluent** disposal area shown in Appendix 6, must be maintained with an appropriate crop in a **viable state**.
5-L3.0	Wet weather storage, with a minimum volume of 50,000 litres must be installed and maintained on the **site** for the storage of **effluent**.

5-L4.0	**Land Monitoring Program** By 1 November 2025, a Land Monitoring Program (LMP) must be: a) designed and implemented by an **appropriately qualified person** to **monitor** the effects of the **activity** on **land**; and b) reviewed annually by an **appropriately qualified person** and certified as being appropriate to **monitor** the effects of the **activity** on **land**.
5-L4.1	The LMP required by condition 5-L4.0 must include: a) taking soil samples at a soil depth range of 0-30cm and 30-60cm from **monitoring** locations specified in *Table 8 – Land Monitoring Plan*; and b) **monitoring** at the **monitoring** locations, and at the minimum **monitoring** frequency, and for the parameters specified in *Table 8 – Land Monitoring Plan*. **Table 8 – Land Monitoring Plan**

Monitoring locations	Parameter (units)	Minimum monitoring frequency
At least one (1) reference location, and three (3) representative locations within the **effluent** disposal area identified in Appendix 6.	Soil texture class	Annually
	Emerson aggregate stability test	
	pH (pH units)	
	Total kjeldahl nitrogen (mg/kg)	
	Nitrate (mg/kg)	
	Colwell phosphorus (mg/kg)	
	Electrical Conductivity (EC) (µS/cm)	
	Exchangeable sodium percentage (%)	
	Phosphorus Buffering Index (PBI)	

5-L4.2	The LMP required by condition 5-L4.0 must include observations recorded at the time soil samples are taken, that record the extent to which there is evidence of: a) **effluent** disposal induced surface runoff occurring to areas outside the **effluent** disposal area; and b) surface ponding of **effluent** occurring.
5-L4.3	The LMP required by condition 5-L4.0 must include: a) the development of trigger values; and b) the development of management actions to mitigate any adverse impacts caused, or likely to be caused, by the **activity**; and c) the implementation of the management actions if an LMP trigger value is reached.
5-L4.4	A report summarising the results of the LMP (LMP Report) must be prepared by an **appropriately qualified person** and included within the Annual Monitoring Report required under condition 5-G2.4.

5-L4.5	The LMP Report required by condition 5-L4.4 must include: a) a summary of the **monitoring** data obtained under the LMP in the relevant financial year; and b) an evaluation of all relevant data obtained under the LMP, and include graphical representations showing all relevant historical data and a comparison of data trends against LMP trigger values; and c) a description of all actions taken to minimise the environmental risk in response to information obtained through the LMP, including actions taken where trigger values in the LMP were reached; and d) the results of those management actions.
5-L4.6	The LMP Report required by condition 5-L4.4 must include analysis and interpretation of **monitoring** results by an **appropriately qualified person** that, for the **effluent** disposal area identified in Appendix 6, determines: a) the ongoing capacity of the **effluent** disposal area to sustainably receive **effluent** releases from the **activity**, including but not limited to the capacity of the **effluent** disposal area to sustainably adsorb nutrient loads from the **activity**; and b) whether the **effluent** disposal area is sufficient in size for the volume of **effluent** disposed of to **land**; and c) whether contaminants generated by the **activity** have migrated beyond the **effluent** disposal area; and d) how the soil in the **effluent** disposal area has been impacted by the **activity**.
5-L4.7	The LMP Report required by condition 5-L4.4 must include recommended action(s) to mitigate any adverse impacts caused, or likely to be caused, by the **activity** in respect of **effluent** releases to **land**.
5-L4.8	Any action(s) recommended under condition 5-L4.7 in the LMP Report must be undertaken: a) as soon as practicable, but no later than 10 business days after receiving the LMP Report; or b) another period agreed to in writing by the **administering authority**.
5-L5.0	**Vegetation Monitoring Program** By 1 November 2025, a Vegetation Monitoring Program (VMP) must be: a) designed and implemented by an **appropriately qualified person** to **monitor** the effects of the activity on the vegetation within the **effluent** disposal area identified in Appendix 6; and b) reviewed annually by an **appropriately qualified person** and certified as being appropriate to **monitor** the effects of the **activity** on the vegetation within the **effluent** disposal area identified in Appendix 6.

5-L5.1	The VMP required by condition 5-L5.0 must include quarterly **monitoring** that, for the **effluent** disposal area identified in Appendix 6, includes: a) visual **monitoring** of vegetation within the **effluent** disposal area; and b) representative photographs of vegetation within the **effluent** disposal area; and c) a calculation of the total percentage of **vegetation cover** in a **viable state** over the **effluent** disposal area; and d) a comparison of results of the **monitoring** undertaken with previous **monitoring**, including (photo)graphical representations showing relevant limits, and trends.
5-L5.2	If a calculation made under the VMP demonstrates that the percentage of **vegetation cover** in a **viable state** within the **effluent** disposal area, shown in Appendix 6, is below 85%: a) within 10 business days of that calculation being made, recommended action(s) to restore at least 85% of the **vegetation cover** to a **viable state** in the **effluent** disposal area must be prepared by an **appropriately qualified person**; and b) within 20 business days of receiving those recommended action(s), **measures** must be taken to implement the recommended action(s), or a different timeframe for taking such action(s) agreed to in writing by the **administering authority**.
5-L5.3	A report summarising the results of the VMP (VMP Report) must be prepared by an **appropriately qualified person** and included within the Annual Monitoring Report required under condition 5-G2.4.
5-L5.4	The VMP Report required by condition 5-L5.3 must include: a) a summary of the previous 12 months **monitoring** data obtained under the VMP; and b) an evaluation of all relevant data obtained under the VMP, including all relevant historical data and any data trends; and c) a description of all actions taken to improve the **viable state** of vegetation in the **effluent** disposal area in response to a requirement under condition 5-L5.2.
Schedule: Waste	
5-W1.0	Written procedures must be developed and implemented which identify **measures** to ensure that fluctuations in inflow rates to the sewage treatment plant throughout the year do not adversely impact the ability of the sewage treatment plant to treat sewage.

PART 6: Site Specific conditions – Great Sandy NP, Cooloola Section Freshwater Campground

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— 21 to 100EP— if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Great Sandy NP, Cooloola Section Freshwater Campground - Lot 1 Plan AP23771

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site-specific conditions of approval.

Schedule: General	
6-G1.0	**Study of Environmental Impacts** 1. The holder of this approval must conduct a study on all its sewage treatment works that are ERAs covered by this approval, to identify the environmental impacts of the **activities** and **measures** to address the impacts. 2. A report on the study must be submitted to the **administering authority** by 21 April 1998 and must address the following matters: a) Population served by the sewage treatment works in terms of:- (i) number of resident persons; and (ii) number of overnight visitors; and (iii) number of day visitors; and (iv) variations in each of these numbers on a daily and seasonal basis; b) Capacity of existing treatment units not including transpiration or absorption trenches; c) Locations of any existing discharges to **waters**; d) Length and suitability of existing trenches for **effluent** disposal; e) Proposed modifications to address any treatment or disposal shortfall.
6-G2.0	The holder of this approval must: 1. Develop and implement an Integrated Environmental Management System (IEMS) which provides for the following functions: a) The **monitoring** of releases of contaminants into the environment and an environmental assessment of the releases; and b) Staff straining and awareness of environmental issues; and c) The conduct of environmental and energy audits; and waste prevention; treatment and disposal. 2. Lodge with the **administering authority** on or before 21 February 1997 and at 3 monthly intervals thereafter until 21 February 1998, a brief report describing the progress in developing and implementing the IEMS; and 3. On or before 21 May 1998, have completed and implemented the IEMS; and 4. On or before 21 July 1998, lodge a detailed description of the IEMS and its documentation with the **administering authority** for its review and comment, and 5. Have due regard to that comment in the finalisation of the IEMS.

6-G2.1	A description of the IEMS must be kept at the approved place where practical.

Definitions

Key terms and/or phrases used in this document are defined in this section. Where a term is not defined, the definition and meaning given must be in accordance with the following (in order of priority):

1. in the *Environmental Protection Act 1994*, its regulations or environmental protection policies;
2. the *Acts Interpretation Act 1954*;
3. the Macquarie Dictionary (taking account of the context in which the word or phrase is used in this document).

For example, **environmental value**, **environmental harm**, **environmental nuisance**, and **material environmental harm** are defined in the EP Act and **groundwater** is defined in the *Environmental Protection Regulation 2019*. Additionally, **person** is described by the *Acts Interpretation Act 1954*.

Activity or **activities** means the environmentally relevant activity or activities to which this environmental authority relates. An activity may be undertaken on the whole or a part of a **site**.

Administering authority means the Chief Executive administering the *Environmental Protection Act 1994*.

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

Complaints means an expression of dissatisfaction, concern or report, whether written or verbal, about the **activity** and/or its impact on environmental values.

Day means any 24-hour period of a calendar day.

Effluent means the liquid fraction of treated sewage.

Land means land excluding **waters** and the atmosphere.

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

Mean is the sum of a collection of numbers divided by the count of numbers in the collection.
E.g., (n1+n2+n3)/3.

Monitor, **monitored** and **monitoring** means monitoring the impact of an **activity** on the receiving environment and includes analysing, assessing, examining, inspecting, measuring, modelling or reporting any of the following matters—

(a) the quantity, quality, characteristics, timing and variability of the release of any contaminant; and
(b) the effectiveness of any control measure; and
(c) the characteristics of, and impact on, the receiving environment.

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

Saturated means the soil moisture level is greater than the soil field capacity. Field capacity means the amount of water retained in soil when the soil has been allowed to drain for 24hrs under normal gravity conditions.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to **land** or **waters**.

Sensitive place includes any of the following places:

(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 2004* or a World Heritage Area; or
(f) a public park or garden; or
(g) for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2019*; or
(h) the area within the curtilage of any of the above places.

Stage 1 refers to treatment of sewage at Waddy Point Camping Area on Lot 21 Plan AP23770 that is authorised from the take effect date of this environmental authority and ceases to be authorised from the commencement of **Stage 2**. Treatment of sewage during **Stage 1** must be conducted in accordance with Part 4A of this environmental authority.

Stage 2 refers to treatment of sewage at Waddy Point Camping Area on Lot 21 Plan AP23770 that is authorised from 12:00am on 12 January 2026 onwards. Treatment of sewage during **Stage 2** must be conducted in accordance with Part 4B of this environmental authority.

The site, or **site**, means the area of **land** identified as being approved for the carrying out of the **activities** as per the location descriptions and appendices contained within this environmental authority.

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**.**

Vegetation cover means the percentage of ground area occupied by vegetation or by the vertical projection of foliage (referred to as foliage projective cover).

Viable state or viability means able to live and grow.

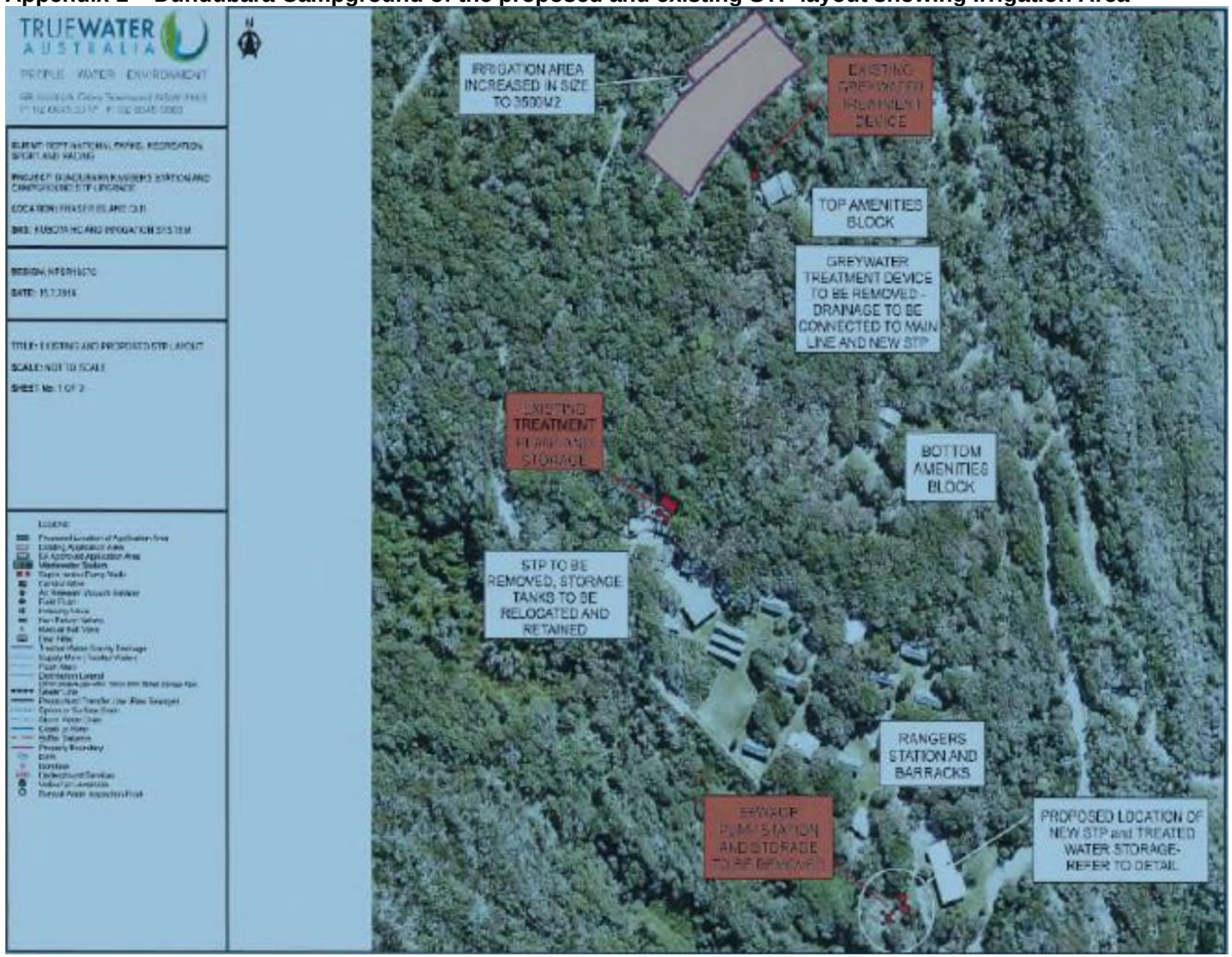
Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off,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

You means the holder of the environmental authority.

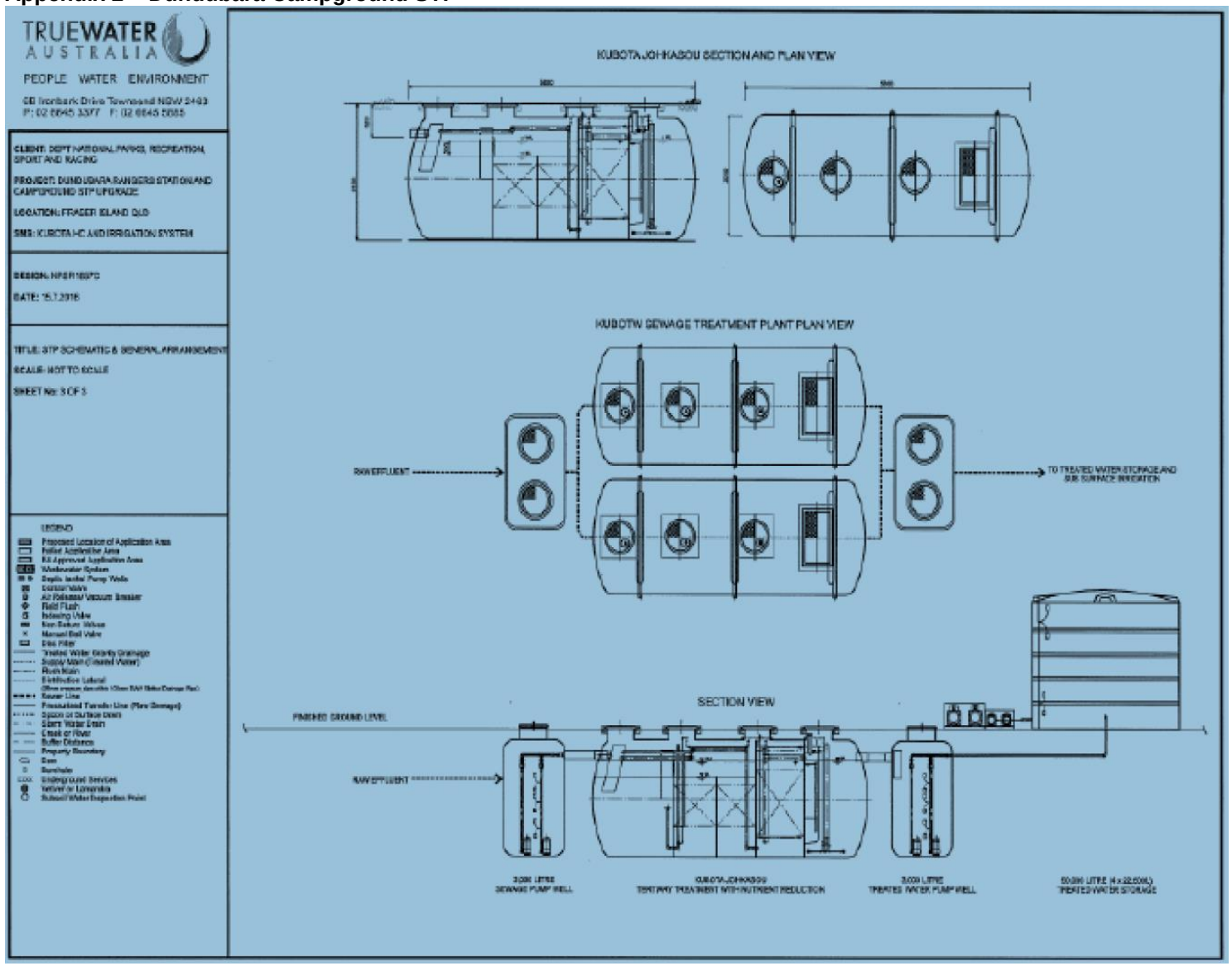
80th percentile (abbreviated as **80th %tile**) means not more than one fifth, of the measured values are to exceed the stated release limit for the limit period, for example, no more than ten (10) for any fifty (50) consecutive samples for the long term period.

Appendices

Appendix 1 – Dundubara Campground of the proposed and existing STP layout showing Irrigation Area

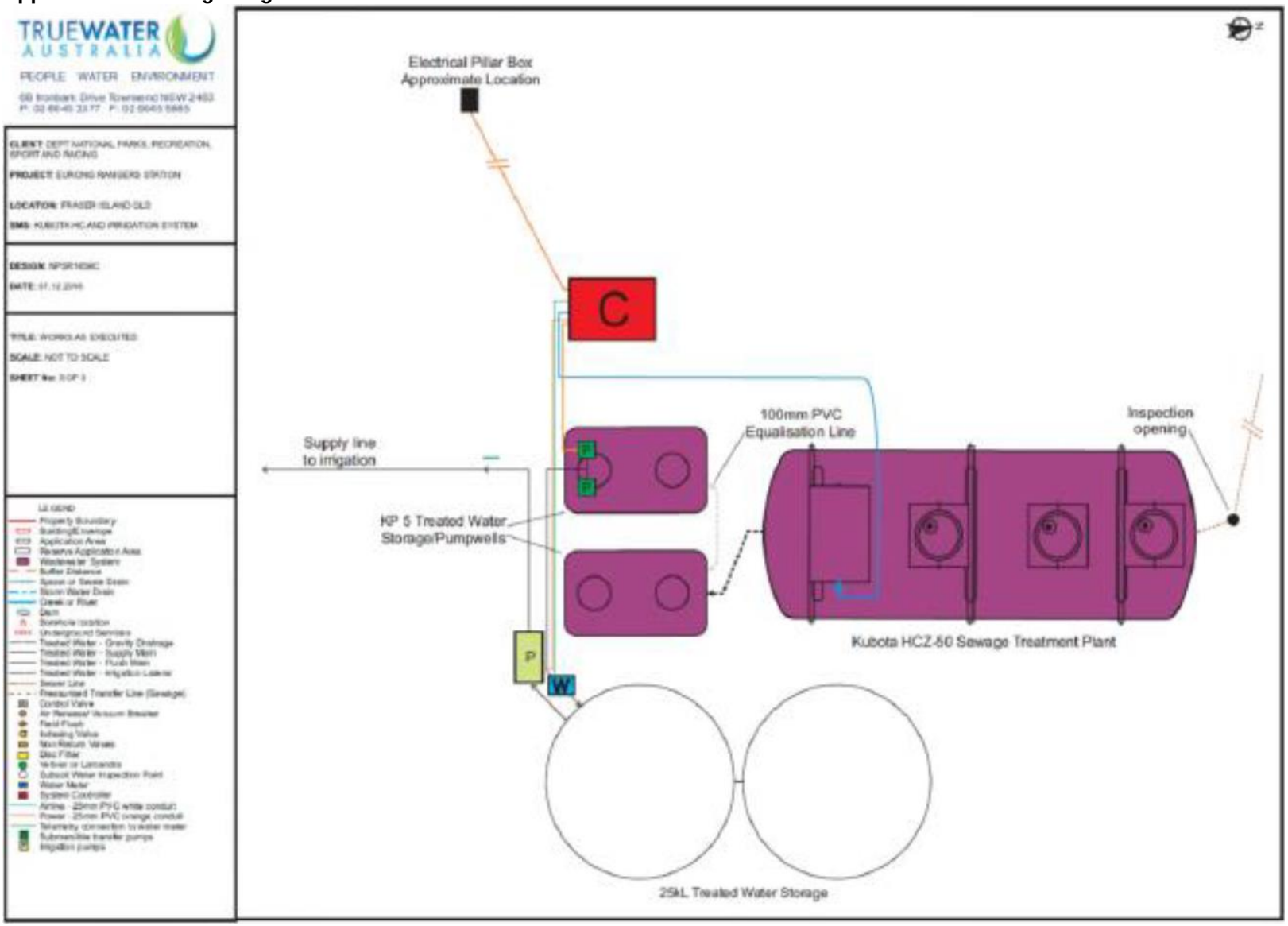


Appendix 2 – Dundubara Campground STP

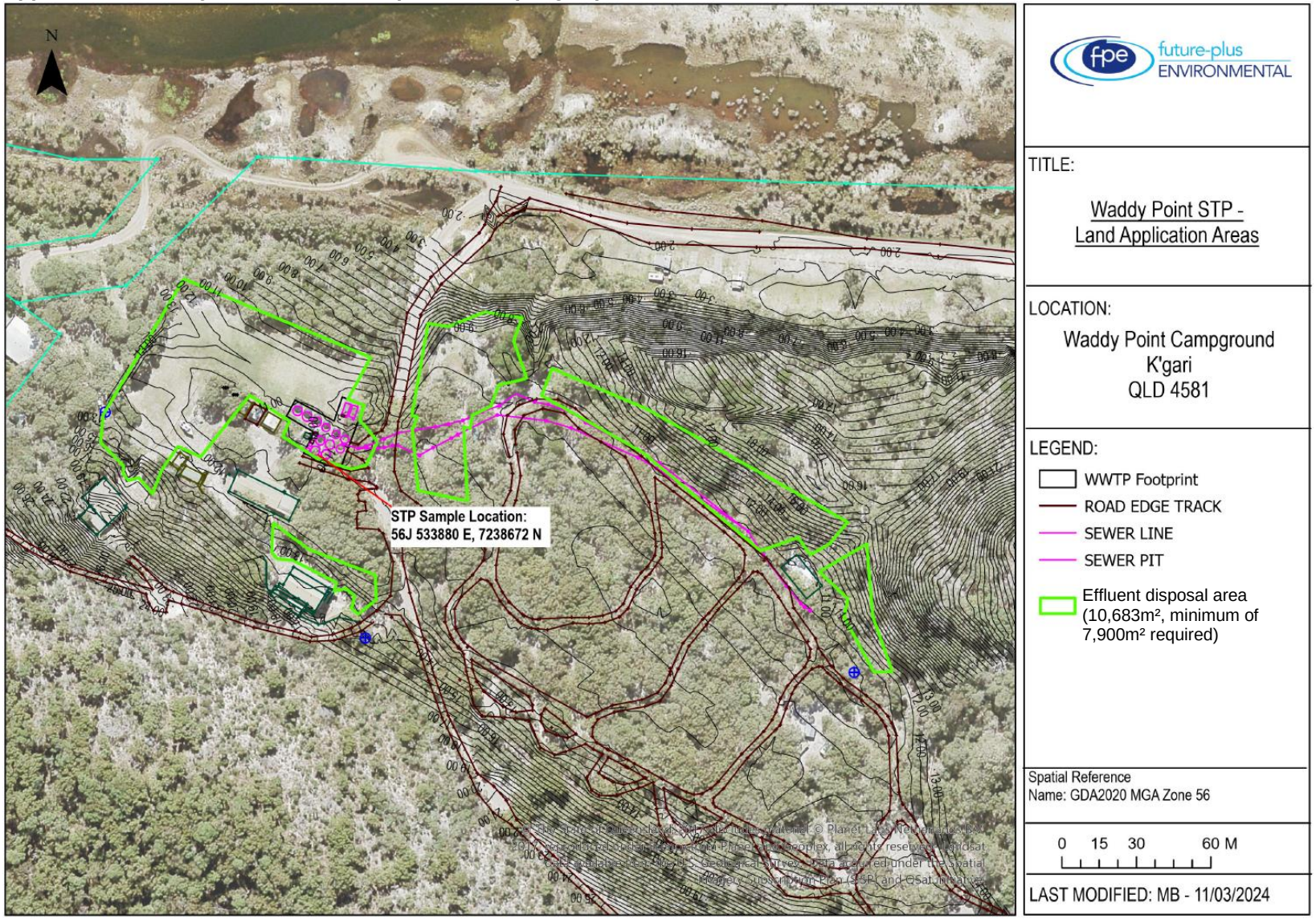


Appendix 3 – Eurong Rangers Station – Irrigation Areas

Appendix 4 – Eurong Rangers Station STP

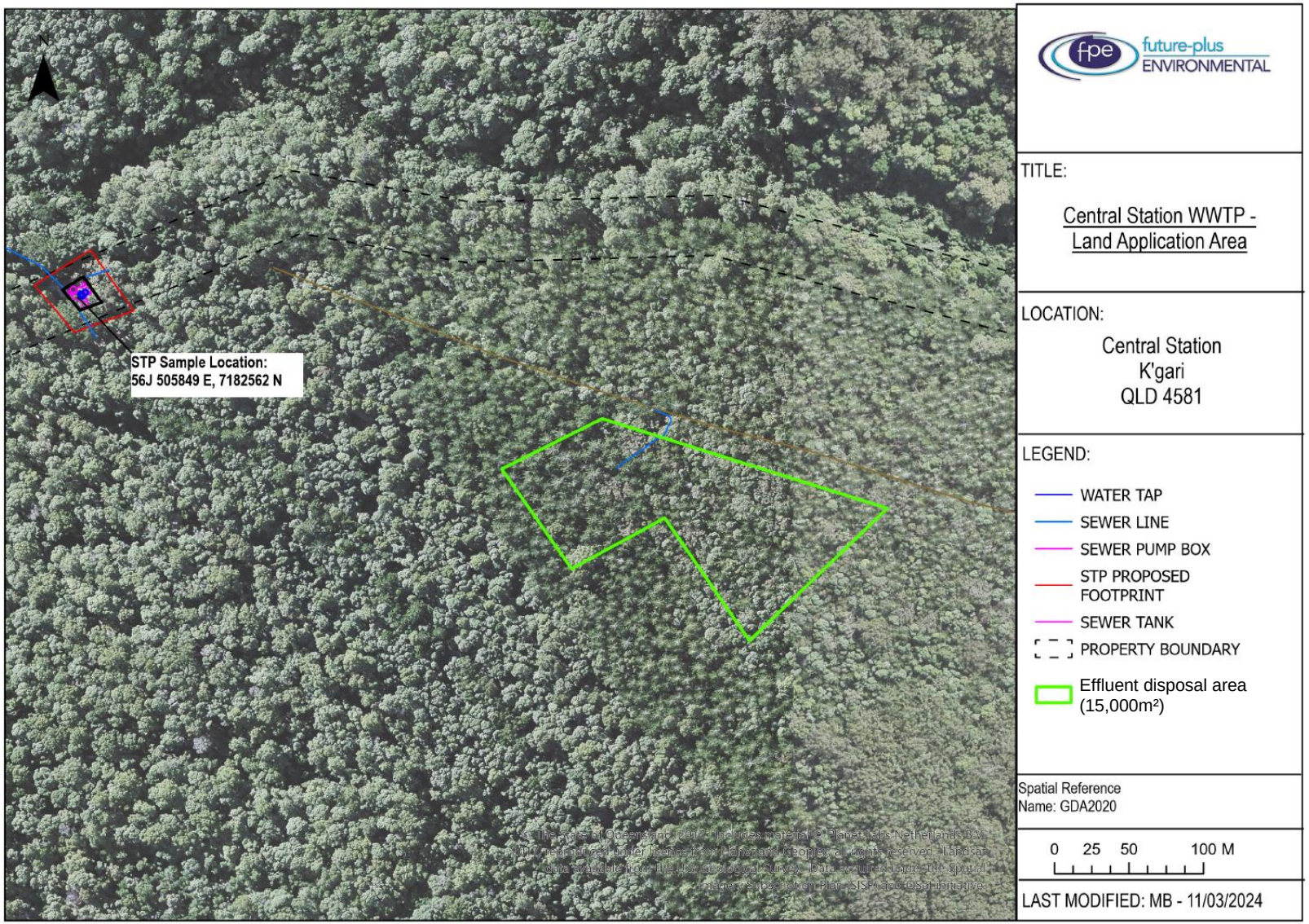


Appendix 5 – Waddy Point Effluent Disposal Area (Stage 2)



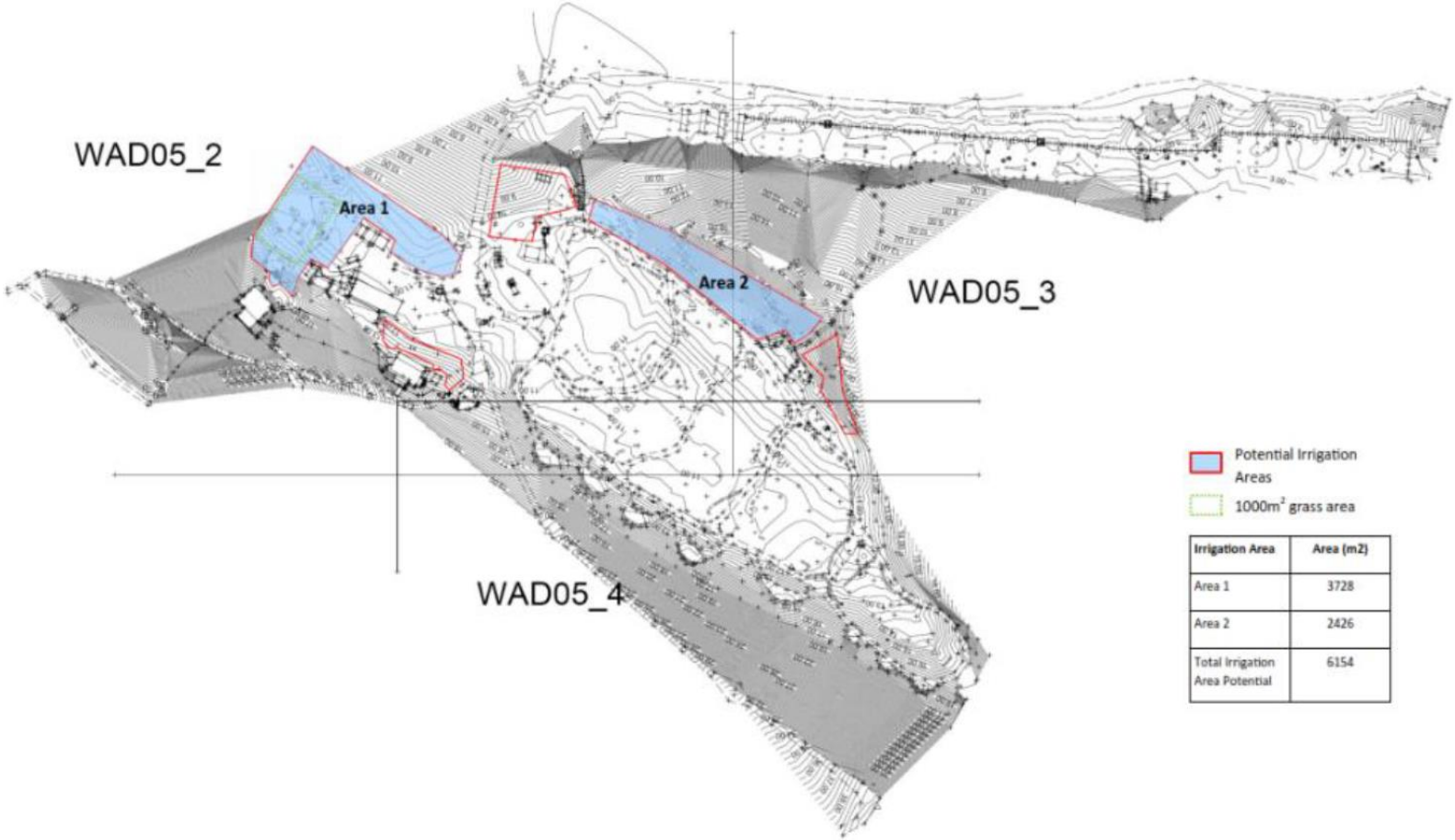
Note: The STP sample location shown on the map in Appendix 5 uses coordinate system GDA2020 MGA zone 56.

Appendix 6 – Central Station Effluent Disposal Area



Note: The STP sample location shown on the map in Appendix 6 uses coordinate system GDA2020 MGA zone 56.

Appendix 7 – Waddy Point Effluent Disposal Area (Stage 1)



Irrigation Area	Area (m2)
Area 1	3728
Area 2	2426
Total Irrigation Area Potential	6154

Scales: Not to scale	Title: Potential Irrigation Areas	Job No: 3832-110215-1.0
Figure measurements to take precedence over scale measurements	Client: QPWS	Location: Waddy Point Top Camping Area, Fraser Island, Great Sandy National Park.

END OF ENVIRONMENTAL AUTHORITY