Permit

Environmental Protection Act 1994

Environmental authority EPPR00755213

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

Environmental authority number: EPPR00755213

Environmental authority takes effect on the day it is signed by the delegate.

The anniversary day of this environmental authority remains 07 August. The payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
Cook Shire Council	10 Furneaux Street COOKTOWN QLD 4895

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
Coen Landfill	
ERA 60 - Waste disposal - 1(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - less than 50,000t	1/SP116197
Gum Hole Resource Reserve	
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	15/SP208286
Lakeland Landfill	
ERA 60 - Waste disposal - 2(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) - less than 2000t	18/SP218120
Coen Sewage Treatment Plant	

ABN 46 640 294 485

Queensland Government

Environmentally relevant activities	Locations
ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	19/SP142882
Coen Sanitary Depot	
ERA 60 - Waste disposal - 1(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - less than 50,000t	19/SP142882
Cooktown Landfill	
ERA 60 - Waste disposal - 1(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - less than 50,000t	2/SP132221
ERA 60 - Waste disposal - 1(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - less than 50,000t	3/SP132221
Laura Sewage Treatment Plant	
ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	200/CP907233
Laura Landfill	
ERA 60 - Waste disposal - 2(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) - less than 2000t	200/CP907233
Bull Paddock Resource Reserve	
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	25/SP208286
Ayton Landfill	

Environmentally relevant activities	Locations
ERA 60 - Waste disposal - 1(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - less than 50,000t	35/SR822
Black Pinch Gravel Pit	
ERA 16 - Extraction and Screening - 2(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	372/SP224308
ERA 16 - Extraction and Screening - 3(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	372/SP224308
Eight Mile Resource Reserve	
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	40/SP208286
Cooktown Sewage Treatment Plant	
ERA 63 – Sewage Treatment – 1(d) – Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 4000 but not more than 10,000EP	74/BS131
Cooktown Sanitary Depot	
ERA 60 - Waste disposal - 1(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - less than 50,000t	8/C17921
Rossville Landfill	
ERA 60 - Waste disposal - 2(a) - Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) - less than 2000t	872/SP235309
Mobile and Temporary locations	
ERA 57 - Regulated Waste Transport - Transporting regulated waste	Mobile and temporary in the state of Queensland

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.

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.

The anniversary day of this environmental authority is the same day each year as the original take effect date unless you apply to change the anniversary day. The payment of the annual fee will be due each year on this day.

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

1 October 2021

Date

Liz Clarke
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Utilities and Government Organisations Assessment
Department of Environment and Science
GPO Box 2454 BRISBANE QLD 4001
Phone: 1300 130 372 (option 4)
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).

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

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

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. If you are unsure that you have the most current version of the environmental authority relating to this site please visit https://apps.des.qld.gov.au/env-authorities/ to access all environmental authorities currently approved.

Conditions of environmental authority

This environmental authority consists of the following parts:

Applicable Part	Environmentally Relevant Activity (ERA)	Location
Part 1	Applicable to the Environmentally Relevant Activities authorised under this environmental authority, Part 2 to Part 13.	Applicable to the Environmentally Relevant Activities authorised under this environmental authority, Part 2 to Part 13.
Part 2	ERA 63(1d) – Sewage Treatment 4000 – 10000 EP	**Cooktown Sewage Treatment Plant** Lot 74 on BS131 **Boundary** Street, Cooktown, 4895
Part 3	ERA 63(1bi) – Sewage Treatment 100 – 1500 EP	**Coen Sewage Treatment Plant** Lot 19 SP142882 Sheppard Street, Coen, 4892
Part 4	ERA 16(2a) Extractive 5000 – 100000t per year ERA 16(3a) Screening 5000 – 100000t per year	**Black Pinch Gravel Pit** Lease G on SP215747 within Lot 372 SP224308; Bloomfield Road, Cooktown, 4871
Part 5	ERA 60(1A) Waste Disposal <50000t per year	**Cooktown Landfill** Lots' 2 and 3 on SP132221 Endeavour Valley Road, Cooktown, 4895
Part 6	ERA 60(1A) Waste Disposal <50000t per year	**Coen Landfill** Lot 1 on SP116197 Oscar Creek Road, Coen, 4892
Part 7	ERA 60(1A) Waste Disposal <50000t per year	**Ayton Landfill** Lot 35 on SR822 Rossville – Bloomfield Road, Ayton, 4871
Part 8	ERA 60(2A) Waste Disposal Facility 50-2000t per year	**Lakeland Landfill** Lot 18 on SP218120 Peninsula Development Road, Lakeland, 4871
Part 9	ERA 60(2A) Waste Disposal Facility less than 2000t per year	**Rossville Landfill** Lot 872 on SP235309 Rossville – Bloomfield Road, Rossville, 4871
Part 10	ERA 60(2A) Waste Disposal Facility less than 2000t per year	**Laura Landfill** Lot 200 on CP907233 Peninsula Development Road, Laura, 4892
Part 11	ERA 60(1A) Waste Disposal <50000t per year	**Cooktown Sanitary Depot** Lot 8 on C17921 John Street, Cooktown, 4895
Part 12	ERA 60(1A) Waste Disposal <50000t per year	**Coen Sanitary Depot** Lot 19 on SP142882 Shepard Street, Coen, 4892

Part 13	ERA 57(2a) Regulated Waste Transport (Other than tyres) in 1 – 5 vehicles.	**Regulated Waste Transport** Mobile and Temporary
Part 14	ERA 16 2(b) Extractive, more than 100,000t but not more than 1,000,000t per year.	**Bull Paddock Resource Reserve** Lot 25 on SP208286
		Eight Mile Resource Reserve Lot 40 on SP208286
		Gum Hole Resource Reserve Lot 15 on SP208286
Part 15	ERA63(1bi) – Sewage Treatment 100 – 1500 EP	**Laura Sewage Treatment Plant** Lot 200 on CP907233 Peninsula Development Road, Laura QLD 4871

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

Part 1

Environmentally relevant activity	Location
ERA 63(1d) – Sewage Treatment 4000 – 10000 EP	**Cooktown Sewage Treatment Plant** Lot 74 on BS131 **Boundary** Street, Cooktown, 4895
ERA 63(1bi) – Sewage Treatment 100 – 1500 EP	**Coen Sewage Treatment Plant** Lot 19 SP142882 Sheppard Street, Coen, 4892
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ERA 60(2A) Waste Disposal Facility less than 2000t per year	**Rossville Landfill** Lot 872 on SP235309 Rossville – Bloomfield Road, Rossville, 4871
ERA 60(2A) Waste Disposal Facility less than 2000t per year	**Laura Landfill** Lot 200 on CP907233 Peninsula Development Road, Laura, 4892
ERA 60(1A) Waste Disposal <50000t per year	**Cooktown Sanitary Depot** Lot 8 on C17921 John Street, Cooktown, 4895
ERA 60(1A) Waste Disposal <50000t per year	**Coen Sanitary Depot** Lot 19 on SP142882 Shepard Street, Coen, 4892
ERA 57(2a) Regulated Waste Transport (Other than tyres) in 1 – 5 vehicles.	**Regulated Waste Transport** Mobile and Temporary

Agency interest: General	
Condition number	**Condition**
P1-G1	Only activities authorised in this environmental authority are permitted to be undertaken at the authorised site.
P1-G2	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
P1-G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** within 24 hours of becoming aware of the breach and record full details of the breach and any subsequent actions.
P1-G4	All information and records that are required by the conditions of this environmental authority must be kept for a period of at least 5 years.
P1-G5	If you become aware of any adverse impact on an environmental value you must notify the **administering authority** in writing of the full details of the adverse impact within 24 hours of becoming aware of the impact.
P1-G6	A **suitably qualified person(s)** must monitor, interpret and record all parameters that are required to be monitored as specified within this environmental authority.
P1-G7	All analysis and tests required under this approval must be carried out by a laboratory that has **NATA** certification for any analysis and tests.
P1-G8	A Site Based Management Plan (SBMP) must be implemented at the following sites: a) Cooktown Sewage Treatment Plant; b) Coen Sewage Treatment Plant; c) Black Pinch Gravel Pit; d) Four Mile Gravel Pit; e) Mt Tully Gravel Pit; f) Cooktown Landfill; g) Ayton Landfill; h) Lakeland Landfill; i) Rossville Landfill; j) Coen Landfill; k) Cooktown Sanitary Deport; and l) Coen Sanitary Depot. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for and review and continual improvement in the overall environmental performance of all activities that are carried out. The SBMP must address the following matters: a) Environmental commitments **–** a commitment by senior management to achieve specified and relevant environmental goals; b) Identification of environmental issues and potential impacts; c) Control measures for routine operation to minimise likelihood of environmental harm; d) Contingency plans and emergency procedures for non-routine situation; e) Organisational structure and responsibility;

	f) Effective communication; g) Monitoring of contaminant releases; h) Conducting environmental impact assessments; i) Staff training; j) Record keeping; and k) Periodic review of environmental performance and continual improvement.
P1-G9	The SBMP must include a Site Development Plan (SDP) that outlines any past present or future areas of land to be impacted whilst undertaking the authorised **activity** at the following locations: a) Cooktown Landfill; b) Ayton Landfill; c) Lakeland Landfill; d) Laura Landfill e) Rossville Landfill; f) Coen Landfill; g) Cooktown Sanitary Deport; and h) Coen Sanitary Depot.
P1-G10	Any monitoring, management or post closure and care plan required to be developed as a condition of this environmental authority must have due regard and consideration for comments made by the **administering authority** in the finalisation of that document.
Agency interest: Air	
Condition number	**Condition**
P1-A1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not be released to any nuisance **sensitive place** or **commercial place.**
P1-A2	Any material received, stockpiled or handled must be managed in a way that minimises dust generation.
Agency interest: Water	
Condition number	**Condition**
P1-WT1	Contaminants must not be released to groundwater.
P1-WT2	Other than as permitted within this authority, contaminants must not be released to any **waters** or the bed and banks of any **waters.**
P1-WT3	Stormwater runoff must be diverted away from areas containing wastes or contaminants.
P1-WT4	Stormwater runoff that has been in contact with any contaminants at the site must not be released to any **waters**, roadside gutters or stormwater drains.
Agency interest: Noise	
Condition number	**Condition**
P1-N1	Noise from the authorised **activity** must not cause environmental harm at any nuisance **sensitive place** or **commercial place.**

Agency interest: Waste	
Condition number	**Condition**
P1-WS1	Other than as permitted within this authority, waste must not be buried.
P1-WS2	Waste must only be removed from the site by using a transporter lawfully able to transport it to a place lawfully able to receive it.
P1-WS3	Waste must not be burnt.
Agency interest: Land	
Condition number	**Condition**
P1-L1	Other than as permitted within this authority, contaminants must not be released to land.
P1-L2	Treatment and management of Acid Sulfate soils must comply with the latest edition of the administering authorities manual Instructions for the *'treatment and management of acid sulfate soils, 2001'.*
P1-L3	All chemicals including petroleum products stored on the **authorised place** must be stored in an effective containment system that is impervious to the materials stored and managed to prevent release.
P1-L4	All containment systems must be constructed and maintained to the relevant Australian Standard and be designed to minimise rainfall collection.
P1-L5	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.

Part 2

Environmentally relevant activity	Location
ERA 63(1d) – Sewage Treatment 4000 – 10000 EP	**Cooktown Sewage Treatment Plant** Lot 74 on BS131 **Boundary** Street, Cooktown, 4895

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

Agency interest: General	
Condition number	**Condition**
P2-G1	The daily operation of the sewage treatment plant must be carried out by a **suitably qualified person(s)** to ensure the effective operation of the treatment system and control equipment.
P2-G2	Contaminant pumping stations must be fitted with stand by pumps and pump failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power.
Agency interest: Water	
Condition number	**Condition**
P2-WT1	**Treated sewage wastewater** must only be released from the Cooktown Sewage Treatment Plant to **waters** from the following release point: 1) Release point W1 – Cooktown Sewage Treatment Plant discharge pipe to Endeavour River at coordinates (S) 15.4653 and (E) 145.248.
P2-WT2	The release of contaminant to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter.
P2-WT3	The total quantity of **treated sewage wastewater** released from the Cooktown Sewage Treatment Plant must be determined or estimated daily. Records of daily release must be made available to the **administering authority** on request.
P2-WT4	The total quantity of **treated sewage wastewater** to be released to **waters** via release point must not exceed the limits specified in *Table 1 – Maximum release quantity*. **Table 1 – Maximum release quantity**

Maximum permitted quantity of release		
Release point	**Maximum release on any dry weather day**	**Maximum release on any one day**
W1	1,500m^3	4,500m^3

P2-WT5	The only contaminant to be released from the Cooktown Sewage Treatment Plant to **waters** is **treated sewage wastewater** in accordance and within the limits specified *in Table 2 – Release limits*. **Table 2 – Release limits**

Release Point	**Quality**	**Minimum**	**50th percentile**	**80th percentile**	**Median**	**Maximum**	**Monitoring Frequency**

	characteristic (units)						
W1	5 day Biochemical Oxygen Demand (**BOD**) in **mg/L**	-	-	5	-	10	Weekly
	Suspended Solids (SS) in **mg/L**	-	-	5	-	10	Weekly
	pH	6.5	-	-	-	8.5	Weekly
	DO **mg/L**	2	-	-	-	-	Weekly
	Total Nitrogen **mg/L**	-	5	-	-	10	Fortnightly
	Ammonia Nitrogen **mg/L**	-	1	-	-	3	Fortnightly
	Total Oxidised Nitrogen **mg/L**	-	-	-	-	-	Fortnightly
	Total Phosphorous (P) **mg/L**	-	1	-	-	2	Fortnightly
	Faecal Coliforms (Organisms/100ml)	-	-	-	100(1)	600	Fortnightly

1) **Median** must be based on the results of at least five (5) samples, with individual samples being collected at intervals of not less than thirty (30) minutes.

P2-WT6

Releases authorised under condition P2-WT5 must be monitored for the limits and at the frequencies specified in *Table 2 – Release limits*, from the monitoring point 15º28'26.99"S, 145º14'33.04"E, being the final effluent tank.

P2-WT7

The Endeavour River must be monitored on a monthly basis for the parameters and limits specified in *Table 3 – Endeavour River monitoring* and the associated footnotes.

Table 3 – Endeavour River monitoring

Quality Characteristic	**Unit**	**Limit**	**Limit Type**	**Monitoring frequency**
Total Nitrogen	µg/L	80th percentile(1) of reference site(2) or 250(3), whichever is higher	**Median(4)(5)**	Monthly
Total Phosphorous	µg /L	80th percentile(1) of reference site(2) or 20(3), whichever is higher	**Median(4)(5)**	Monthly
Ammonia Nitrogen	µg /L	80th percentile(1) of reference site(2) or 15(3), whichever is higher	**Median(4)(5)**	Monthly

	1) Trigger levels based on the 80th percentile are derived using ANZECC (2000) methodology and are based on the chosen reference site. 2) Reference site is a location no greater than 1000m up current of discharge location W1 within the Endeavour River. 3) Based on ANZECC (2000) trigger levels for aquatic ecosystems of slightly – moderately disturbed systems – table 3.3.4 – tropical Australian estuaries 4) The **median** must be determined based on ten (10) consecutive samples. 5) The determination of the **median** limit must be taken from a location 500m down current of discharge location W1 within the Endeavour River. 6) Water quality sampling must be undertaken in the same tidal point (e.g two hours after high tide midway between springs and neaps).
P2-WT8	If the trigger limits defined in *Table 3 – Endeavour River monitoring* are exceeded, an investigation including biological assessment into the potential for environmental harm must be undertaken and finalised and the results provided to the **administering authority** within three months of the analysis results being received.
P2-WT9	Disinfection of wastewater released to water must be undertaken using non-chemical methods such as ultraviolet radiation.

Part 3

Environmentally relevant activity	Location
ERA 63(1bi) – Sewage Treatment 100 – 1500 EP	**Coen Sewage Treatment Plant** Lot 19 SP142882 Sheppard Street, Coen, 4892

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

Agency interest: General	
Condition number	**Condition**
P3-G1	The daily operation of the sewage treatment plant must be carried out by a **suitably qualified person(s)** to ensure the effective operation of the treatment system and control equipment.
P3-G2	The Coen Sewage Treatment plant must have a backup generator installed and be capable of operating without mains electricity for a period of at least 48 hours
P3-G3	Contaminant pumping stations must be fitted with stand by pumps and pump failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power.
Agency interest: Water	
Condition number	**Condition**
P3-WT1	The only locations approved for the release of contaminants to **waters** in the event of a sewage overflow are those listed in *Table 4 – Overflow release limits*. **Table 4 - Overflow release limits**

Overflow release point	Location	Discharge Location
Pump station 2 (PS2)	Main sewer line located on Lot 19 on CO6	Tributary to Dry Creek.

P3-WT2	Any sewage overflows must be screened to prevent the release of gross solids.
Agency interest: Waste	
Condition number	**Condition**
P3-WS1	Regulated waste may be accepted into the sewage system at the approved place when such wastes are comingled with normal domestic sewage or in accordance with a trade waste policy.
P3-WS2	Records of any trade waste agreements for discharge of wastes to sewers must be made available to the **administering authority** on request.
Agency interest: Land	
Condition number	**Condition**
P3-L1	The only contaminant to be released to land from the Coen Sewage Treatment Plant is **treated sewage wastewater** in accordance and within the limits specified in *Table 5 – Release limits*. **Table 5 – Release limits**

	Quality characteristic (units)	**Minimum**	**50th percentile**	**80th percentile**	**Median**	**Maximum**	**Monitoring Frequency**
	5 day Biochemical Oxygen Demand (**BOD**) in **mg/L**	-	-	20	-	30	Once every 3 months
	Suspended Solids (SS) in **mg/L**	-	-	30	-	60	Once every 3 months
	pH	6.5	-	-	-	8.5	Once every 3 months
	Free Residual Chlorine **mg/L**	0.2	-	-	-	0.7	Once every 3 months
	Total Nitrogen **mg/L**	-	20	-	-	-	Once every 3 months
	Ammonia Nitrogen **mg/L**	-	-	2	-	5	Once every 3 months
	Total Phosphorous **mg/L**	-	10	-	-	20	Once every 3 months
	Faecal Coliforms (Organisms/100ml)	-	-	-	150	1000	Once every 3 months
	Total Dissolved Solids **mg/L**	-	-	-	-	1000	Once every 3 months
P3-L2	**Treated sewage wastewater** from the Coen Sewage Treatment Plant is only to be released to the irrigation areas defined as stage 1A, 1B and stage 2 shown on drawing 1 listed in appendix 1 of this environmental authority.						
P3-L3	A minimum of three (3) hectares of land must be provided for the irrigation of treated effluent.						
P3-L4	Any **treated sewage wastewaters** irrigated to land must be monitored at the point of discharge from the Coen Sewage Treatment Plant, for the limits specified in *Table 5 – Release limits*.						
P3-L5	Any extension of the area used for irrigation of **treated sewage wastewater** to land may only take place after an investigation has been carried out that examines the ecological sustainability and suitability of the proposed site.						
P3-L6	**Treated sewage wastewater** must be irrigated to land such that: a) Vegetation is not damaged; b) Soil erosion and soil structure damage is minimised; c) There is no surface ponding of effluent; d) The effluent is evenly distributed on the irrigation area;						

<table>
<tr><td></td><td>e) There is no spray drift or overspray outside the effluent irrigation area;
f) The infiltration of effluent beyond the plant root zone is minimised;
g) Each portion of the irrigation area is irrigated at an application rate and frequency that optimises plant growth; and
h) Soil compaction by stock is prevented.</td></tr>
<tr><td>P3-L7</td><td>An Environmental Monitoring Program (EMP) that is sufficient to determine any potential impacts from the activity on ground waters must be designed and implemented by 30 September 2014.</td></tr>
<tr><td>P3-L8</td><td>The EMP must include the following information as a minimum:
a) Identification of any groundwater systems likely to be affected by the irrigation of treated sewage wastewater;
b) Details and locations including geospatial coordinates for all sampling locations;
c) At least one up gradient sampling location from the irrigation area to determine the baseline ground water characteristics;
d) At least one down gradient sampling location from the irrigation area to determine the ongoing impacts from the activity; and
e) Details of ongoing monitoring for the parameters and frequencies specified in Table 6 - Groundwater monitoring.
Table 6 – Groundwater monitoring
<table>
<tr><th>Quality Characteristic</th><th>Unit</th><th>Monitoring frequency</th></tr>
<tr><td>Faecal Coliforms</td><td>Organisms /100ml</td><td>At least once every three months</td></tr>
<tr><td>Total Nitrogen</td><td>mg/L</td><td>At least once every three months</td></tr>
</table></td></tr>
<tr><td>P3-L9</td><td>The quantity of treated sewage effluent must be measured and recorded on a daily basis. This information must be available to the administering authority on request.</td></tr>
<tr><td>P3-L10</td><td>If the parameters defined in Table 5 - Release limits are exceeded, an investigation including biological assessment into the potential for environmental harm must be undertaken and finalised and the results provided to the administering authority within three months of the analysis results being received. The investigation results must be available to the administering authority on request.</td></tr>
<tr><td>P3-L11</td><td>Any area used for the irrigation of treated sewage wastewater must have limited public access to prevent exposure to pathogens.</td></tr>
</table>

Part 4

Environmentally relevant activity	Location
ERA 16(2a) Extractive 5000 – 100000t per year ERA 16(3a) Screening 5000 – 100000t per year	**Black Pinch Gravel Pit** Lease G on SP215747 within Lot 372 SP224308; Bloomfield Road, Cooktown, 4871

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

Agency interest: Water	
Condition number	**Condition**
P4-WT1	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.
P4-WT2	There must be no disturbance, filling or obstruction of any **water(s)**.
Agency interest: Noise	
Condition number	**Condition**
P4-N1	Vibration emitted from the **activity** must not cause **environmental nuisance** at any sensitive place and not exceed the levels specified in *Table 7 – Vibration Limits*.

Table 7 – Vibration Limits

	Vibration measured at a sensitive place	
	Monday to Friday 9am – 3pm Saturday 9am – 1pm	**Monday to Friday 9am – 3pm Saturday 9am – 1pm**
Houses and low rise residential buildings and commercial buildings not included below.	10 mm/s	10 mm/s
Commercial and industrial buildings or structures of reinforced concrete or steel construction	25 mm/s	25 mm/s

Agency interest: Waste	
Condition number	**Condition**
P4-WS1	No wastes are permitted to be accepted for storage or disposal.
Agency interest: Land	
Condition number	**Condition**
P4-L1	Any disturbed areas of land must be rehabilitated such that: a) Native species of vegetation are planted and established;

	b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is profiled so that it is stable and not likely to slump or erode.
P4-L2	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.
P4-L3	Mulched green waste may be spread across the site where it can be demonstrated that it assists in facilitating land rehabilitation.

Part 5

Environmentally relevant activity	Location
ERA 60(1A) Waste Disposal <50000t per year	**Cooktown Landfill** Lots' 2 and 3 on SP132221 Endeavour Valley Road, Cooktown, 4895

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

Agency interest: General	
Condition number	**Condition**
P5-G1	An Environmental Monitoring Program (EMP) that is sufficient to determine any potential impacts from the **activity** on surface **waters** and ground **waters** must be designed and implemented by 30 September 2014.
P5-G2	The EMP must include the following information as a minimum: a) Identification of any ground water and surface water systems likely to be affected by the **activity;** b) Details and locations including geospatial coordinates for all sampling locations; c) At least one up gradient and upstream sampling location to determine the baseline ground water characteristics; d) At least one down gradient and downstream sampling location to determine the ongoing impacts from the **activity**; and e) Details of ongoing monitoring at the frequency and for the parameters specified in *Table 8 – Monitoring requirements*.

Table 8 – Monitoring requirements

Contaminant	Monitoring frequency
PH	Groundwater must be monitored no less than once every six months. Surface water must be monitored at least four times every twelve months.
Electrical conductivity	
Total dissolved solids	
Dissolved oxygen	
Nitrate	
Calcium	
Chloride	
Sodium	
Lead	
Zinc	
Iron	
Chemical Oxygen Demand	
Total organochlorin pesticides	
Ammonia-N	
Manganese	

	Sulphate	

Agency interest: Air	
Condition number	**Condition**
P5-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.

Agency interest: Waste	
Condition number	**Condition**
P5-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P5-WS2	Temporary storage of any regulated waste must be undertaken in a manner that prevents environmental harm.
P5-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
P5-WS4	The following wastes are permitted to be received for disposal on the **authorised place**: a) **Construction** and **Demolition Waste**; and b) **Industrial Waste**; and c) **Commercial waste**; and d) **Green waste**; and e) **Domestic waste**; and f) **Asbestos waste** or **asbestos waste-containing material**; and g) Tyres.
P5-WS5	Used wet cell batteries may be temporarily stored at the **authorised place** if they are palletised and plastic wrapped and stored in a covered bunded area.
P5-WS6	Used oils may be temporarily stored at the **authorised place** within a bunded area.
P5-WS7	**Asbestos waste** or **asbestos waste-containing material** must be buried in a manner that prevents environmental harm as soon as practicable after receipt.
P5-WS8	Car bodies and scrap metal may be temporarily stored at the **authorised place** within a specified area.
P5-WS9	The following additional wastes are permitted to be received for **temporary storage** on the **authorised place** within a specified area: a) **Construction** and **Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; e) **Domestic waste**; f) **Asbestos waste** or **asbestos waste-containing material**; and g) Tyres; h) Paint and Chemicals; i) **Biosolids**/Sewage Sludge; and j) E-waste.
P5-WS10	The following wastes are not permitted to be received on site:

	a) pyrophoric wastes (where co-disposed with other potentially combustible material); b) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; c) liquescent waste streams or any waste capable of yielding free liquids; d) Untreated infectious waste, **pharmaceutical wastes**, pathogenic wastes, sharps and **cytotoxic wastes**; and e) Any regulated wastes other than those specified under condition number (P5-WS5, P5-WS6, P5-WS8 and P5-WS9).
Agency interest: Land	
Condition number	**Condition**
P5-L1	**Leachate** is not permitted to be directly or indirectly released to any land beyond the **authorised place**.
P5-L2	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P5-L3	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) To sewer in accordance with a trade waste agreement; and c) By recirculation back into the **authorised place**.
P5-L4	Any future waste storage areas must be constructed in a manner that prevents or minimises the release of **leachate** through the base and embankments.
P5-L5	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P5-L6	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P5-L7	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P5-L8	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P5-L9	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P5-L10	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 6

Environmentally relevant activity	Location
ERA 60(1A) Waste Disposal <50000t per year	**Coen Landfill** Lot 1 on SP116197 Oscar Creek Road, Coen, 4892

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

Agency interest: Air	
Condition number	**Condition**
P6-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.
Agency interest: Waste	
Condition number	**Condition**
P6-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P6-WS2	Temporary storage of any regulated waste must be undertaken in a manner that prevents environmental harm.
P6-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
P6-WS4	The following wastes are permitted to be received for disposal on the **authorised place**: **a) Construction and Demolition waste**; **b) Industrial waste**; **c) Commercial waste**; **d) Green waste**; e) **Domestic waste;** f) Tyres; and g) Untreated infectious waste including, **pharmaceutical wastes**, pathogenic wastes, sharps and **cytotoxic wastes**.
P6-WS5	Used wet cell batteries may be temporarily stored at the **authorised place** if they are palletised and plastic wrapped and stored in a covered bunded area.
P6-WS6	Used oils may be temporarily stored at the **authorised place** within a bunded area.
P6-WS7	Untreated infectious waste must be buried in a manner that prevents environmental harm as soon as practicable after receipt.
P6-WS8	Car bodies and scrap metal may be temporarily stored at the **authorised place** within a specified area
P6-WS9	The following additional wastes are permitted to be received for temporary storage on the **authorised place** within a specified area: a) **Construction** and **Demolition waste**; b) **Industrial waste**; c) **Commercial waste**; d) **Green waste**; e) **Domestic waste**;

	f) Tyres; g) Untreated infectious waste including, **pharmaceutical wastes**, pathogenic wastes, sharps and **cytotoxic wastes**; h) **Asbestos Waste (only during a disaster)** i) Paint and Chemicals; j) **Biosolids**/Sewage Sludge; and k) E-waste.
P6-WS10	The following wastes are not permitted to be received on site: a) pyrophoric wastes (where co-disposed with other potentially combustible material); b) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; c) liquescent waste streams or any waste capable of yielding free liquids; and d) Any regulated wastes other than those specified under condition number (P5-WS5, P5-WS6, P5-WS8 and P6-WS9).
Agency interest: Land	
Condition number	**Condition**
P6-L1	**Leachate** is not permitted to be directly or indirectly released to any land beyond the **authorised place**.
P6-L2	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P6-L3	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) To sewer in accordance with a trade waste agreement; and c) By recirculation back into the **authorised place**.
P6-L4	Any future waste storage areas must be constructed in a manner that prevents or minimises the release of **leachate** through the base and embankments.
P6-L5	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P6-L6	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P6-L7	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P6-L8	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P6-L9	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P6-L10	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 7

Environmentally relevant activity	Location
ERA 60(1A) Waste Disposal <50000t per year	**Ayton Landfill** Lot 35 on SR822 Rossville – Bloomfield Road, Ayton, 4871

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

Agency interest: Air	
Condition number	**Condition**
P7-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.
Agency interest: Waste	
Condition number	**Condition**
P7-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P7-WS2	Temporary storage of any regulated waste must be undertaken in a manner that prevents environmental harm.
P7-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
P7-WS4	The following wastes are permitted to be received for disposal on the **authorised place**: a) **Construction and Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; e) **Domestic waste**; and f) Tyres.
P7-WS5	Used wet cell batteries may be temporarily stored at the **authorised place** if they are palletised and plastic wrapped and stored in a covered bunded area.
P7-WS6	Used oils and oily waste may be temporarily stored at the **authorised place** within a bunded area.
P7-WS7	Car bodies and scrap metal may be temporarily stored at the **authorised place** within a specified area
P7-WS8	The following additional wastes are permitted to be received for temporary storage on the **authorised place** within a specified area: a) **Construction** and **Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; **e) Domestic waste;** f) Tyres; g) Paint and Chemicals; and

	h) E-waste.
P7-WS9	The following wastes are not permitted to be received on site: a) Pyrophoric wastes (where co-disposed with other potentially combustible material); b) Explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; c) Liquescent waste streams or any waste capable of yielding free liquids; d) Untreated infectious wastes including **pharmaceutical wastes**, pathogenic wastes, sharps and **cytotoxic wastes**; or e) Any regulated wastes other than those specified under condition number (P7-WS5, P5-WS6, P5-WS7, and P7-WS8)
Agency interest: Land	
Condition number	**Condition**
P7-L1	**Leachate** is not permitted to be directly or indirectly released to any land beyond the **authorised place**.
P7-L2	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P7-L3	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) To sewer in accordance with a trade waste agreement; and c) By recirculation back into the **authorised place**.
P7-L4	Any future waste storage areas must be constructed in a manner that prevents or minimises the release of leachate through the base and embankments.
P7-L5	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P7-L6	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P7-L7	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P7-L8	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P7-L9	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P7-L10	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 8

Environmentally relevant activity	Location
ERA 60(2A) Waste Disposal Facility less than 2000t per year	**Lakeland Landfill** Lot 18 on SP218120 Peninsula Development Road, Lakeland, 4871

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

Agency interest: Air	
Condition number	**Condition**
P8-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.
Agency interest: Waste	
Condition number	**Condition**
P8-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P8-WS2	Temporary storage of any regulated waste must be undertaken in a manner that prevents environmental harm.
P8-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
P8-WS4	The following wastes are permitted to be received for disposal on the **authorised place**: a) **Construction** and **Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; e) **Domestic waste**; f) Tyres; and g) Bacterial sludges
P8-WS5	Used wet cell batteries may be temporarily stored at the **authorised place** if they are palletised and plastic wrapped and stored in a covered bunded area.
P8-WS6	Used oils and oily waste may be temporarily stored at the **authorised place** within a bunded area.
P8-WS7	Car bodies and scrap metal may be temporarily stored at the a**uthorised place** within a specified area
P8-WS8	The following additional wastes are permitted to be received for temporary storage on the **authorised place** within a specified area: a) **Construction** and **Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; e) **Domestic waste**; f) Tyres; g) Bacterial sludges;

	h) Paint and Chemicals; and i) E-waste.
P8-WS9	The following wastes are not permitted to be received on site: a) pyrophoric wastes (where co-disposed with other potentially combustible material); b) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; c) liquescent waste streams or any waste capable of yielding free liquids; d) untreated infectious waste including **pharmaceutical wastes**, pathogenic wastes, sharps and **cytotoxic wastes**; or e) Any regulated wastes other than those specified under condition number (P8-WS5, P5-WS6, P5-WS7, and P8- WS8)
Agency interest: Land	
Condition number	**Condition**
P8-L1	**Leachate** is not permitted to be directly or indirectly released to any land beyond the **authorised place**.
P8-L2	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P8-L3	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) To sewer in accordance with a trade waste agreement; and c) By recirculation back into the **authorised place**.
P8-L4	Any future waste storage areas must be constructed in a manner that prevents or minimises the release of **leachate** through the base and embankments.
P8-L5	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P8-L6	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P8-L7	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P8-L8	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P8-L9	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P8-L10	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 9

Environmentally relevant activity	Location
ERA 60(2A) Waste Disposal Facility less than 2000t per year	**Rossville Landfill** Lot 872 on SP235309 Rossville – Bloomfield Road, Rossville, 4871

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

Agency interest: Air	
Condition number	**Condition**
P9-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.
Agency interest: Waste	
Condition number	**Condition**
P9-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P9-WS2	Temporary storage of any regulated waste must be undertaken in a manner that prevents environmental harm.
P9-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
P9-WS4	The following wastes are permitted to be received for disposal on the **authorised place**: a) **Construction** and **Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; e) **Domestic waste**; f) Tyres; and g) Bacterial sludges.
P9-WS5	Used wet cell batteries may be temporarily stored at the **authorised place** if they are palletised and plastic wrapped and stored in a covered bunded area.
P9-WS6	Used oils may be temporarily stored at the **authorised place** within a bunded area.
P9-WS7	Car bodies and scrap metal may be temporarily stored at the **authorised place** within a specified area
P9-WS8	The following wastes are not permitted to be received on site: a) Pyrophoric wastes (where co-disposed with other potentially combustible material); b) Explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; c) Liquescent waste streams or any waste capable of yielding free liquids; d) Untreated infectious waste including **pharmaceutical wastes**, pathogenic wastes, sharps and **cytotoxic wastes**; or e) Any regulated wastes other than those specified under condition number (P9-WS4)
Agency interest: Land	

Condition number	Condition
P9-L1	**Leachate** is not permitted to be directly or indirectly released to any land beyond the **authorised place**.
P9-L2	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P9-L3	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) To sewer in accordance with a trade waste agreement; and c) By recirculation back into the **authorised place**.
P9-L4	Any future waste storage areas must be constructed in a manner that prevents or minimises the release of **leachate** through the base and embankments.
P9-L5	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P9-L6	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P9-L7	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P9-L8	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P9-L9	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P9-L10	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 10

Environmentally relevant activity	Location
ERA 60(2A) Waste Disposal Facility less than 2000t per year	**Laura Landfill** Lot 200 on CP907233 Peninsula Development Road, Laura, 4892

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

Agency interest: Air	
Condition number	**Condition**
P10-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.
Agency interest: Waste	
Condition number	**Condition**
P10-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P10-WS2	Temporary storage of any regulated waste must be undertaken in a manner that prevents environmental harm.
P10-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
P10-WS4	The following wastes are permitted to be received for disposal on the **authorised place**: a) **Construction** and **Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; e) Domestic waste; f) Tyres; and g) Bacterial sludges.
P10-WS5	Used wet cell batteries may be temporarily stored at the **authorised place** if they are palletised and plastic wrapped and stored in a covered bunded area.
P10-WS6	Used oils and oily waste may be temporarily stored at the **authorised place** within a bunded area.
P10-WS7	Car bodies and scrap metal may be temporarily stored at the **authorised place** within a specified area.
P10-WS8	The following additional wastes are permitted to be received for temporary storage on the **authorised place** within a specified area: a) **Construction** and **Demolition Waste**; b) **Industrial Waste**; c) **Commercial waste**; d) **Green waste**; e) **Domestic waste**; f) Tyres; g) Bacterial sludges

	h) Paint and Chemicals; and i) E-waste.
P10-WS9	The following wastes are not permitted to be received on site: a) pyrophoric wastes (where co-disposed with other potentially combustible material); b) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; c) liquescent waste streams or any waste capable of yielding free liquids; d) untreated infectious waste including **pharmaceutical wastes**, pathogenic wastes, sharps and **cytotoxic wastes**; or e) Any regulated wastes other than those specified under condition number (P10-WS5, P5-WS6, P5-WS7, and P10-WS8)
Agency interest: Land	
Condition number	**Condition**
P10-L1	**Leachate** is not permitted to be directly or indirectly released to any land beyond the **authorised place**.
P10-L2	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P10-L3	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) To sewer in accordance with a trade waste agreement; and c) By recirculation back into the **authorised place**.
P10-L4	Any future waste storage areas must be constructed in a manner that prevents or minimises the release of **leachate** through the base and embankments.
P10-L5	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P10-L6	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P10-L7	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P10-L8	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P10-L9	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P10-L10	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 11

Environmentally relevant activity	Location
ERA 60(1A) Waste Disposal <50000t per year	**Cooktown Sanitary Depot** Lot 8 on C17921 John Street, Cooktown, 4895

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

Agency interest: General	
Condition number	**Condition**
P11-G1	An Environmental Monitoring Program (EMP) that is sufficient to determine any potential impacts from the **activity** on surface **waters** and ground **waters** must be designed and implemented by 30 September 2014.
P11-G2	The EMP must include the following information as a minimum: a) Identification of any ground water and surface water systems likely to be affected by the **activity;** b) Details and locations including geospatial coordinates for all sampling locations; c) At least one up gradient and upstream sampling location to determine the baseline ground water characteristics; d) At least one down gradient and downstream sampling location to determine the ongoing impacts from the **activity**; and *e)* Details of ongoing monitoring at the frequency and for the parameters specified in *Table 9 – monitoring requirements.* **Table 9 – Monitoring requirements.**

Contaminant	Monitoring frequency
PH	Groundwater must be monitored no less than once every three months. Surface water must be monitored no less than once every three months.
Electrical conductivity	
Dissolved oxygen	
Faecal Coliforms	

Agency interest: Air	
Condition number	**Condition**
P11-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.

Agency interest: Waste	
Condition number	**Condition**
P11-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P11-WS2	Only the following wastes may be received for disposal: a) Nightsoil; b) Bacterial sludge; and c) Grease traps effluent and residues.

P11-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
Agency interest: Land	
Condition number	**Condition**
P11-L1	Any areas used for waste disposal must be constructed in an appropriate manner to minimise the release of **leachate** through the base and embankments.
P11-L2	Livestock must not have access to any waste deposited in any active waste disposal area on the **authorised place**.
P11-L3	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P11-L4	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) By irrigation over exposed wastes; and c) By reticulation back into the **authorised place**.
P11-L5	**Leachate** must not be irrigated to any areas not used for the disposal of waste or that has undergone or is undergoing land rehabilitation.
P11-L6	Any future waste disposal areas must be constructed in a manner that prevents or minimises the release of **leachate** through the base and embankments.
P11-L7	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P11-L8	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P11-L9	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P11-L10	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P11-L11	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P11-L12	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 12

Environmentally relevant activity	Location/s
ERA 60(1A) Waste Disposal <50000t per year	**Coen Sanitary Depot** Lot 19 on SP142882 Shepard Street, Coen, 4892

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

Agency interest: General	
Condition number	**Condition**
P12-G1	An Environmental Monitoring Program (EMP) that is sufficient to determine any potential impacts from the **activity** on surface **waters** and ground **waters** must be designed and implemented by 30 September 2014.
P12-G2	The EMP must include the following information as a minimum: a) Identification of any ground water and surface water systems likely to be affected by the **activity;** b) Details and locations including geospatial coordinates for all sampling locations; c) At least one up gradient and upstream sampling location to determine the baseline ground water characteristics; d) At least one down gradient and downstream sampling location to determine the ongoing impacts from the **activity**; and e) Details of ongoing monitoring at the frequency and for the parameters specified in *Table 10 – monitoring requirements.* **Table 10 – Monitoring requirements**

Contaminant	Monitoring frequency
PH	Groundwater must be monitored no less than once every three months. Surface water must be monitored no less than once every three months.
Electrical conductivity	
Dissolved oxygen	
Faecal Coliforms	

Agency interest: Air	
Condition number	**Condition**
P12-A1	All wastes received must be handled or stockpiled in a manner that minimises dust generation.

Agency interest: Waste	
Condition number	**Condition**
P12-WS1	Waste disposal must be undertaken in a manner that prevents environmental harm.
P12-WS2	Only the following wastes may be received for disposal: a) **Nightsoil**; b) Bacterial sludge; and

	c) Grease traps effluent and residues.
P12-WS3	Waste disposal activities must not extend beyond the **boundary** of the **authorised place**.
Agency interest: Land	
Condition number	**Condition**
P12-L1	Any areas used for waste disposal must be constructed in an appropriate manner to minimise the release of **leachate** through the base and embankments.
P12-L2	Livestock must not have access to any waste deposited in any active waste disposal area on the **authorised place**.
P12-L3	All reasonable and practicable measures must be taken to minimise the generation of **leachate**.
P12-L4	**Leachate** or contaminated stormwater may only be disposed of: a) By evaporation at the **authorised place**; b) By irrigation over exposed wastes; and c) By reticulation back into the **authorised place**.
P12-L5	**Leachate** must not be irrigated to any areas not used for the disposal of waste or that has undergone or is undergoing land rehabilitation.
P12-L6	Any future waste disposal areas must be constructed in a manner that prevents or minimises the release of **leachate** through the base and embankments.
P12-L7	Any disturbed land must be rehabilitated such that: a) Native species of vegetation are planted and established; b) Potential soil erosion is mitigated; c) Water leaving the site does not contain contaminants that may cause environmental harm; and d) The landform is stable and not likely to slump.
P12-L8	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of waste disposal are commenced.
P12-L9	Rehabilitation of disturbed areas must comply with contemporary rehabilitation standards.
P12-L10	A closure and post closure plan for the waste disposal facility must be developed which extends for a nominal period of at least 30 years after cessation of waste disposal activities.
P12-L11	The closure and post closure plan must include the following: a) Future land use; and b) Maintenance of rehabilitated areas.
P12-L12	At least twelve months before the cessation of waste disposal activities at the waste disposal facility the closure and post closure plan must be submitted to the **administering authority**.

Part 13

Environmentally relevant activity	Location/s
ERA 57(2a) Regulated Waste Transport (Other than tyres) in 1 – 5 vehicles.	**Regulated Waste Transport** Mobile and Temporary

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

Agency interest: Waste	
Condition number	**Condition**
P13-1	If any vehicle registration details change, or any vehicles are added to or removed from the fleet of vehicles used to transport **regulated waste**, details of these changes must be provided to the **administering authority:** a) As soon as practicable after the changes occur; or b) If transporting other **regulated wastes —** when paying the annual fee to the **administering authority** for the environmental authority.
P13-2	**Incompatible wastes** must not be: a) Placed in the same container; or b) Transported in such a way that mixing may occur.
P13-3	**Regulated waste** must only be transported in suitably designed vehicles, tanks, containers or secondary containers that are appropriate for containing the waste being transported.
P13-4	All vehicles, tanks, containers and secondary containers used to transport **regulated waste**: a) Must be maintained in a good condition at all times to prevent any spillage or leakage of **regulated waste** or other contaminants; and b) Kept free of **regulated waste** residues at all times when not in use.
P13-5	A solid impervious partition must be provided to separate the load compartment/area of the **regulated waste** transport vehicle from the driver's compartment.
P13-6	**Regulated waste** must not be removed or released from any vehicle other than: a) At a facility that can lawfully receive the **regulated waste**; or b) For the purpose of consolidation grease trap and/or other oily wastes in a larger road tank vehicle where access to the waste source is restricted to smaller road tank vehicles.
P13-7	**Regulated waste** must not leak or spill from the vehicle.
P13-8	Notwithstanding condition P13-7, any leakage or spillage of **regulated wastes** must be contained immediately, recovered and disposed of to a facility that can lawfully accept the waste.
P13-9	An appropriate spill kit, personal protective equipment and relevant instructions for the management of the **regulated wastes** transported must be maintained and kept in each vehicle.
P13-10	If operating interstate, any spillage, leak, escape or other loss of **regulated waste** from the vehicle must be reported as soon as practicable to the relevant **regulatory agency** of the State or Territory in which the vehicle is travelling when the incident occurs.
P13-11	When operating in Queensland, any **release** of contaminants not in accordance with the conditions of this environmental authority must be reported by telephone to the **administering authorities** Pollution Hotline or regional office located in the area where the **release** occurred.

	Any such **release** must be reported as soon as practicable, but no later than 24 hours (depending on the level of risk to the environment), after becoming aware of the **release**.
P13-12	A written notice detailing the following information must be provided to the **administering authority** within 14 days of any advice provided in accordance with condition 12: a) The name of the **operator**, including the operator's environmental authority number; b) The name and telephone number of a designated contact person; c) Substance and quantity released; d) Vehicle and vehicle registration details; e) Person/s involved (driver and any others); f) The location and time of the **release**; g) The suspected cause of the **release**; h) A description of the effects of the **release**; i) The results of any sampling performed in relation to the **release**; j) Actions taken to mitigate the risk or extent of environmental harm caused by the **release**; k) The success of any actions taken to mitigate the risk or extent of environmental harm; and l) Proposed actions to prevent a recurrence of the **release**.
P13-13	All vehicles used to transport **regulated wastes** (that are not classified as dangerous goods, or as a placard load of dangerous goods), must be covered by a policy of insurance or other form of indemnity, for a sum that is not less than $100,000, in respect of: a) personal injury, death, property damage and other damage (except consequential economic loss) arising out of fire, explosion, leakage or spillage of dangerous goods in, on or from the vehicle or a container on the vehicle; and b) costs incurred by or on behalf of a Commonwealth, State or Territory government authority in a clean-up resulting from any event of the kind referred to in subparagraph a) of this condition.
P13-14	A record of all **regulated waste** (excluding tractable waste) must be kept detailing the following information for every load of waste transported: a) Date of pickup of waste; b) Description of waste; c) Quantity of waste; d) Origin of the waste; and e) Destination of the waste.
P13-15	At all times, a copy of: a) The environmental authority issued by the **administering authority** for **regulated waste** transport activities; and b) The appropriate emergency guides in relation to the waste transported c) Must be carried in the cabin of each vehicle used to transport **regulated waste** and when requested, be presented to an authorised officer of the **administering authority** or relevant **regulatory agency** of the State or Territory in which the vehicle is travelling.
P13-16	All vehicle drivers must: a) Have access to a copy of this environmental authority in the vehicle, or through direct communication with the vehicle depot or operations base; and

	b) Be trained in the requirements of this environmental authority including the use of all equipment and procedures necessary to comply with the conditions of this environmental authority, and document all training undertaken.
P13-17	The following details must be recorded: a) Time, date, name and contact details of the complainant; b) Reasons for the complaint; c) Any investigations undertaken; d) Conclusions formed; and e) Any actions taken.
P13-18	All **asbestos waste** transported must be: a) double bagged and sealed in heavy-duty polythene bags (minimum 200m thickness); or b) contained in sealed drums or bins that are lined with heavy-duty plastic (minimum 200m thickness); or c) where the volume or size of **asbestos waste** (e.g. large **asbestos waste** cement sheets) is greater than the volume or size of a bag, drum or bin: i. For **friable asbestos waste**, sealed in double lined heavy-duty plastic sheeting (minimum 200m thickness) prior to being placed into a waste skip, vehicle tray or similar container; or ii. For non-friable **asbestos waste**, kept damp and contained in a waste skip, vehicle tray or similar container that has been double lined with heavy duty plastic sheeting (minimum 200m thickness) and then completely sealed with the plastic sheeting and adhesive tape.
P13-19	All **asbestos waste** transported must be: a) labelled with a warning statement to indicate the presence of **Asbestos waste** and that dust creation and inhalation needs to be avoided; b) securely loaded and stowed on the vehicle during transit in such a way that does not cause the packaging to rupture; c) off loaded carefully to prevent the packaging from rupturing; and d) Repackaged immediately if rupturing of the packaging does occur.
P13-20	All **clinical** and **related wastes** must be transported in a fully enclosed load compartment of a vehicle that: a) Is bunded or otherwise designed to contain any spills and leaks; b) Is lockable; and c) Has internal surfaces which are rigid and seamless to facilitate cleaning and disinfection.
P13-21	Vehicles and load compartments must be locked when unattended.
P13-22	All **clinical** and **related wastes** must be provided with rigid secondary containment during transport.
P13-23	Secondary containers used for the transportation of **clinical** and **related wastes** must be effectively cleaned and disinfected before reuse.
P13-24	**Clinical** and **related wastes** must not be transported in vehicles fitted with compaction systems.
P13-25	Noxious or offensive odours must not be released from any vehicle transporting **clinical** or **related wastes**.

Part 14

Environmentally relevant activity	Locations
ERA 16 2(b) Extractive, more than 100,000t but not more than 1,000,000t per year.	**Bull Paddock Resource Reserve** Lot 25 on SP208286
	Eight Mile Resource Reserve Lot 40 on SP208286
	Gum Hole Resource Reserve Lot 15 on SP208286

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

Agency interest: General	
Condition number	**Condition**
P14-G1	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
P14-G2	The **activity** must be undertaken in accordance with written procedures that: a) identify potential risks to the environment from the **activity** during routine operations and emergencies including flooding; b) establish control measures that minimise the potential for environmental ; c) ensure plant and equipment is maintained and operated in proper and effective condition; d) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994;* and e) ensure that reviews of environmental performance are undertaken at least annually.
P14-G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** within 24 hours of becoming aware of the breach and record full details of the breach and any subsequent actions.
P14-G4	All chemicals and fuels in bulk or in containers of greater than 15 litres must be stored within a secondary containment system and releases controlled in a manner that prevents environmental harm.
Agency interest: Water	
Condition number	**Condition**
P14-WT1	Stormwater contaminated by the **activity** must be managed to minimise or prevent any adverse impacts on the values of the receiving environment.
P14-WT2	Any water retention structures (e.g. ponds, check dams) used for the storage or treatment of wastewater or wastes must be constructed, installed and maintained to: a) prevent any release of wastewater or wastes from the ponds to any waters other than during wet weather events b) minimise overflows during wet weather c) ensure the stability of the pond structure
P14-WT3	An Erosion and Sediment Control Plan prepared by a suitably qualified person must be implemented and maintained to minimise erosion and the release of sediment.

Agency interest: Noise	
Condition number	**Condition**
P14-N1	In the event of a complaint about unreasonable noise generated on the licensed place, that the administering authority considers to be neither frivolous or vexatious, then the holder of this environmental authority must take action to ensure that the noise is no longer an unreasonable noise.
Agency interest: Waste	
Condition number	**Condition**
P14-WS1	Only remove waste from the site by using a transporter lawfully able to transport it and to a place lawfully able to receive it.
P14-WS2	Waste must not be burnt.
Agency interest: Land	
Condition number	**Condition**
P14-L1	Contaminants from the **activity** must not be released to land.
P14-L2	Before surrendering this environmental authority the site must be rehabilitated to achieve a safe, stable, non-polluting landform in accordance with the “Guideline for Access Investigation Operation and Rehabilitation of Pits V 0 2 March 07” prepared by the former Department of Main Roads.

Part 15

Environmentally relevant activity	Location/s
ERA63(1bi) – Sewage Treatment 100 – 1500 EP	**Laura Sewage Treatment Plant** Lot 200 on CP907233 Peninsula Development Road, Laura QLD 4871

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

Agency interest: General	
Condition number	**Condition**
P15-G1	All reasonable and practicable measures must be taken to prevent the likelihood of environmental harm being caused.
P15-G2	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.
P15-G3	Other than as permitted by the environmental authority, the release of contaminant into the environment must not occur
P15-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.
P15-G5	Am **appropriately qualified person(s)** must monitor record and interpret all parameters that area required to be monitored by this environmental authority and in the manner specified by this environmental authority.
P15-G6	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.
P15-G7	An annual monitoring report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.
P15-G8	You must record the following details for all environmental complaints received a) date and time complaint was received; and b) name and contact details of the complainant; and c) nature of the complaint; and d) investigations undertaken; and e) conclusions formed; and f) actions taken.
P15-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 vexations, of environmental nuisance arising from the **activity**. The monitoring results must be proved to **administering authority** upon request.
P15-G10	The **activity** must be undertaken in accordance with written procedures that:

	a) identify potential risks to the environment from the **activity** during routine operations, closure and an emergency; and b) establish and maintain control measures that minimise the potential for environmental harm; and c) ensure plant, equipment and measures are maintained in a proper and effective condition; and d) ensure plant, equipment and measures are operated in a proper and effective manner; and e) ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and f) ensure that reviews of environmental performance are undertaken at least annually.
P15-G11	Storage of chemicals and fuels in bulk or in containers of greater that 15 litres must be within a secondary containment system and releases controlled in a manner that prevents environmental harm
Agency interest: Air	
Condition number	**Condition**
P15-A1	Odours or airborne contaminants must not cause environmental nuisance at a sensitive place or commercial place.
Agency interest: Water	
Condition number	**Condition**
P15-WT1	Contaminants must not be released to **waters**.
P15-WT2	Ponds used for the storage or treatment of effluent or wastes must have an impermeable liner system and be constructed, installed and maintained to: a) prevent any release of effluent or wastes from the ponds; and b) ensure the stability of the pond structure.
P15-WT3	A receiving environment monitoring program must be designed and implemented by appropriately qualified person to monitor the effects of the **activity** on groundwater. The monitoring will: 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 uppermost 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) included monitoring of background groundwater quality, hydraulically down gradient of all storage ponds, sewage treatment plant and irrigation areas; and d) include, but not limited to, six monthly monitoring of the quality of groundwater to detect any possible release(s) of contaminants; and e) consider the potential use of groundwater in the vicinity.
Agency interest: Noise	

Condition number	Condition
P15-N1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place
Agency interest: Waste	
Condition number	**Condition**
P15-WS1	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Land	
Condition number	**Condition**
P15-L1	The only contaminants to be released to land are treated effluent in accordance with *Table 1 - Treated effluent release limits to irrigation area* and the associated requirements.

Table 1 - Treated effluent release limits to irrigation area

Release Point Name[2,3,4,5]	Quality Characteristics	Minimum[2]	**Median[2]**	Maximum[2]	**90th percentile[2]**	Minimum Frequency
E 225601.453 N 8278138.440	**Volume** (L/ha/**day**)[6]	-	-	75,000	-	Weekly
E 225601.453 N 8278138.440	**BOD5** (mg/L)[7]	-	-	20	-	Monthly
E 225691.453 N 8278138.440	Total Suspended Solids (mg/L)	-	-	60	-	
E 225691.453 N 8278138.440	**Total nitrogen** (mg/L as P)[8]	-	30	35	-	
E 225601.453 N 8278138.440	**Total phosphorus** (mg/L as P)[8]	-	10	15	-	
E 225601.453 N 8278138.440	pH (pH units)	5.0	-	10.0	9.5	
E 225601.453 N 8278138.440	E.coli (cfu/100ml)	-	-	<10,000	-	
E 225601.453 N 8278138.440	Electrical Conductivity (µS/cm)	-	-	1,600	-	

Associated requirements:

1) Total irrigation area (5 hectares) as outlined in attached plan titled 'Laura Sewerage Lagoons and Treatment Lagoon Layout'.
2) Monitoring will occur at the at the release point E 225601.453 N 8278138.440 as per attached plan titled 'Laura Sewerage and Multi-Purpose Facility Irrigation Plan and Details'.
3) Releases of treated effluent must not occur outside the irrigation area and overflow indicated on the plans titled 'Treatment Lagoon Layout'.
4) Monitoring must be undertaken when treated sewage effluent is being irrigated, unless irrigation has ceased for longer than the relevant parameters specified minimum frequency (e.g. if TSS was only required to be monitored once a week, then a TSS sample would not be required after the first week following cessation of the release).

	5) Monitoring must be in accordance with the **administering authority**'s Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained. 6) Volume of release must be calculated based on the total irrigation area when irrigating the maximum volume or worked out for the area of application based on the actual volume irrigated. 7) **BOD5** and Total Suspended Solids are about determining that the plant is achieving design outputs. **COD** may be monitored as an alternative to **BOD5** once a reliable correlation has been determined though analysis of a minimum number of 24 wastewater samples over a minimum period of 12 months and with the agreement of the administering authority. 8) E. coli counts may be more relevant for land irrigation where recreation is unlikely. Enterococci counts are the recommended pathogen indicator for assessing potential risks to recreational water.
P15-L2	Treated effluent release 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; and b) surface pondage and run-off of effluent is prevented; and c) degradation of soil structure is minimised; and d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; and e) spray drift or overspray does not carry beyond effluent disposal areas; and f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; and g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
P15-L3	When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.

Definitions

Note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activity (ERA), or aspect of the ERA to which this environmental authority relates.

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

ADG Code means the *Australian Code for the Transport of Dangerous Goods by Road and Rail*, 7th edition, or more recent versions as they become available. The ADG Code is available for purchase from Canprint — Telephone: (02) 6293 8383 or from the National Transport Commission website at www.ntc.gov.au

Animal waste means any discarded materials, including carcasses, body parts, blood or bedding, originating from animals contaminated with an agent infectious to humans or from animals inoculated during research, production of biological or pharmaceutical testing with infectious agents.

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.

Asbestos waste-containing material means any material, object, product or debris that contains asbestos waste.

Asbestos waste means all removed asbestos waste-containing materials and disposable items used during the asbestos waste removal work, such as plastic sheeting used for an enclosure or to cover surfaces in the asbestos waste work area, disposable coveralls, disposable respirators and rags used for cleaning etc.

Authorised place means any property description and street addresses listed on pages 1 and 2 of this environmental authority.

Biosolids means treated sewage sludge.

Boundary means within one metre of the cadastral boundary of the authorised place.

BOD5 means the 5 day biochemical oxygen demand determined using a test sample uninhibited for either carbonaceous material or nitrogen at twenty degrees centigrade.

By-pass means sewage that has by-passed full treatment at the plant as a result of the peak design of the plant being exceeded.

COD means chemical oxygen demand determined using standard tests (e.g. those used by NATA laboratories).

Construction or demolition waste means waste resulting from carrying out a construction or demolition **activity**, but does not include paper, cardboard, unseasoned timber, vegetation, paper-covered plasterboard, metals (other than steel reinforcing rods) and regulated waste.

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

Commercial waste means waste, other than green waste, recyclable waste, interceptor waste or waste discharged to a sewer, produced as a result of the ordinary use or occupation of commercial premises.

Chemical waste means waste generated from the use of chemicals in medical, dental, veterinary and laboratory procedures, including, for example, mercury, formalin and gluteraldehyde.

Clinical waste means waste that has the potential to cause disease including, for example, animal waste, discarded sharps, human tissue waste; and laboratory waste.

Cytotoxic waste means waste that is contaminated by a cytotoxic drug.

Day means any 24 hour period.

Domestic waste means waste, other than domestic clean-up waste, green waste, recyclable waste, interceptor waste or waste discharged to a sewer, produced as a result of the ordinary use or occupation of domestic premises.

Dry weather day refers to a day during which no rain falls within the catchment of the sewage treatment plant for the commencement of measurement for that day. The term also excludes days during which measurement is made which occur within three (3) days following cumulative rainfall of 100 mm over the three preceding days.

Environmental nuisance means an unreasonable interference or likely interference with an environmental value caused by:

a) Aerosols, fumes, light, noise, odour, particles or smoke;
b) An unhealthy, offensive or unsightly condition because of contamination; or
c) Another way prescribed by regulation.

Environmental value means:

a) A quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or
b) Another quality of the environment identified and declared to be an environmental value under an environmental protection policy or regulation.

Equivalent person (EP) means a wastewater flow of 230 litres per person per day.

Friable asbestos waste means asbestos waste-containing material which, when dry, is or may become crumbled, pulverised or reduced to powder by hand pressure.

Note: This may include asbestos waste containing materials that have been subjected to conditions, such as weathering, physical damage, water damage etc., that leave them in a state where they meet the above definition.

Green waste means grass cuttings, trees, bushes, shrubs, tree lopping's, bushes or shrubs, or similar matter produced as a result of the ordinary use or occupation of premises.

Incompatible waste means wastes that are likely to interact and increase the risk to human health and/or the environment when mixed or brought into contact.

Industrial waste means interceptor waste.

Leachate means a liquid that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the approved place that contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

Liquescent waste means waste tending toward a liquid state; waste that is not spadeable.

Median means the middle value, where half the data are smaller and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

mg/L means milligram per Litre.

NATA means National Association of Testing Authorities, Australia

Nightsoil means human faecal material, human urine and material mixed with human faecal material or urine, including for example, toilet paper.

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.

Oily waste means hydrocarbons and water mixtures or emulsions, including oil and water mixtures or emulsions, which is the regulated waste item 41 of Schedule 9 of the *Environmental Protection Regulation 2019.* Oily waste does not include mineral oil (item 38) that is not in a mixture or emulsion with water. Vegetable oil (item 65) is also excluded.

Operator means the person carrying out the ERA.

Pharmaceutical waste means waste arising from pharmaceutical products that have passed their recommended shelf life, pharmaceutical products discarded due to off-specification batches or

contaminated packaging, pharmaceutical products returned by patients or discarded by the public, pharmaceutical products no longer required by the public and waste generated during the manufacture of pharmaceutical products.

Packaged regulated waste means regulated waste in a container with:

a) A capacity of not more than 450 litres; and

b) A net mass of not more than 400 kilograms.

Regulated waste means waste that:

1. a) Is commercial or industrial waste, whether or not it has been immobilised or treated; and

b) Is of a type, or contains a constituent of a type, mentioned in schedule 9.

2. Waste prescribed under subsection (1) includes:

a)For an element—any chemical compound containing the element; and

b)Anything that contains residues of the waste.

Regulatory agency means the agency of a State or Territory that has responsibility for regulating the transport of regulated wastes in that State or Territory.

Related waste means waste that constitutes, or is contaminated with, chemicals, cytotoxic drugs, human body parts, pharmaceutical products or radioactive substances.

Release of a contaminant into the environment, includes:

a) To deposit, discharge, emit or disturb the contaminant;

b) To cause or allow the contaminant to be deposited, discharged, emitted or disturbed;

c) To allow the contaminant to escape; and

d) To fail to prevent the contaminant from escaping.

Rigid vehicle means a vehicle the load carrying area of which is fixed to the vehicle's chassis or frame (as defined in the ADG Code).

Risk phrase means a phrase stated in the National Occupational Health and Safety Commission's (NOHSC's) document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about the substance's hazards.

Safety phrase means a phrase stated in National Occupational Health and Safety Commission's document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about:

a) The safe use of the substance; or

b) the personal protective equipment for the substance.

50th percentile means the median value of the measured values of the quality characteristic is not to exceed the stated release limit for any five (5) consecutive samples where:

1. The consecutive samples are taken over a five (5) week period;
2. The consecutive samples are taken at approximately equal periods; and
3. The time interval between the taking of each consecutive sample is not less than six days.

80th percentile means not more than one (1) of the measured values are to exceed the stated release limit for any five (5) consecutive weekly samples where:

1. The consecutive samples are taken over a five (5) week period;
2. The consecutive samples are taken at approximately equal periods; and
3. The time interval between the taking of each consecutive sample is not less than six (6) days.

Sensitive place means 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 2004* 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 2019*.

Short-term (limit) means a limit is applied to five consecutive samples (on a rolling basis for limit calculations) where consecutive samples area taken on a weekly basis of approximately equal periods (plus or minus 2 days of days).

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

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.

Treated sewage wastewater means effluent that exits the sewage treatment plant following treatment.

Vibration means the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

Water(s) 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. Excludes waters discharged to land as part of a re-use scheme.

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

Ullage means a vapour space which is left above the liquid surface after filling, to permit a degree of thermal expansion of the liquid without loss of cargo (as defined in AS 2809.1–2008 — *Road Tank Vehicles for Dangerous Goods)*

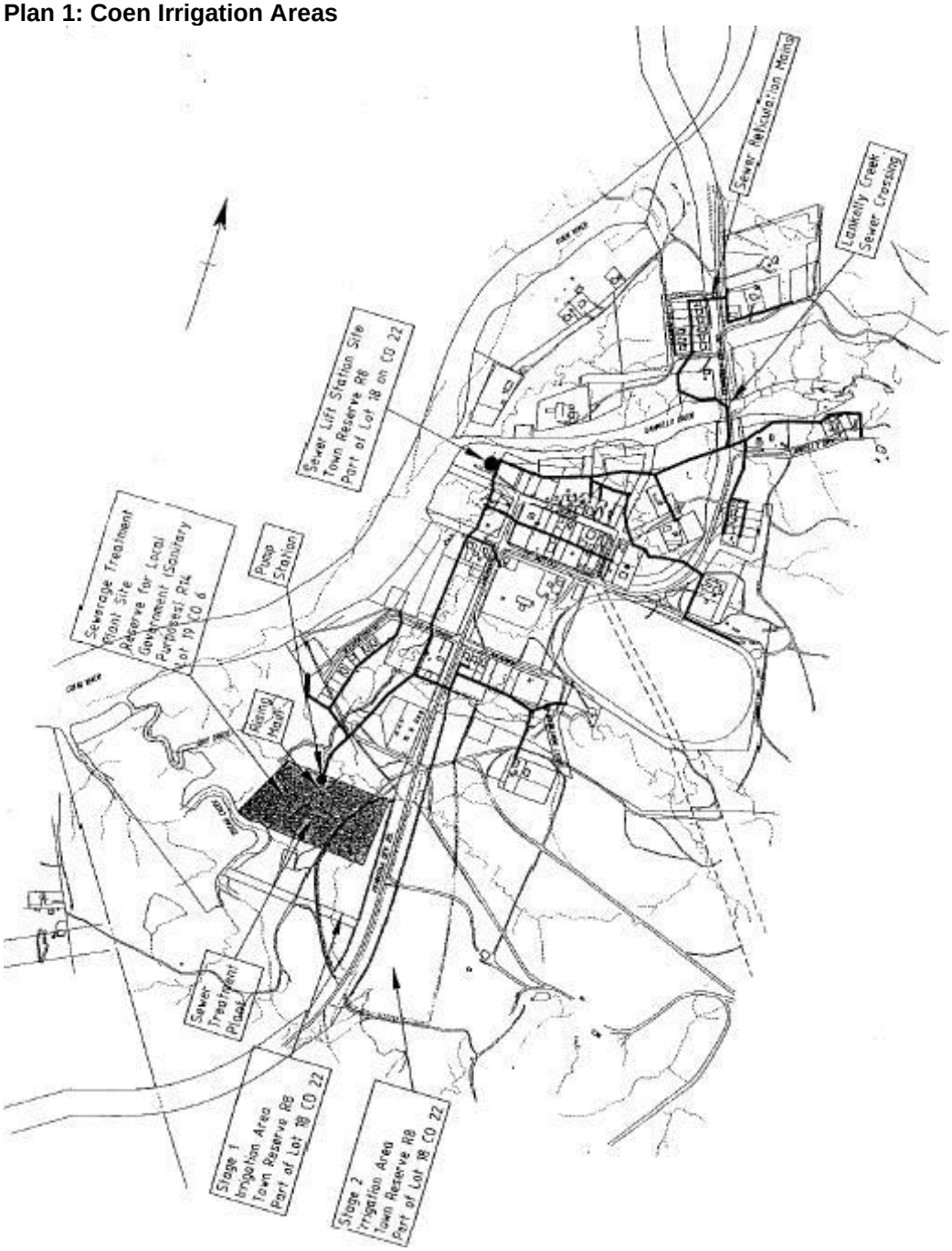
90th percentile means not more than one (1) of the measured values of the quality characteristic is to exceed the stated release limit for any ten (10) consecutive samples for a sampling point at any time during the environmental activity operation.

Appendices

Appendix 1:

Document No.	Document Name	Date
Plan 1	Coen Irrigation Areas	02 February 2001

Plan 1: Coen Irrigation Areas



Schedules

Schedule 1 – Approved plans and specifications

Document no.	Document name	Date
60217669	Application for Extraction of Gravel in Resource Reserves – Bull Paddock, Eight Mile and Gum Hole Resource Reserves	12 June 2012
60217669	Appendix B Gravel and Water Extraction - Rinyirru (Lakefield) National Park - Operational Environmental Management Plan	12 June 2012
	Guideline for Access Investigation Operation and Rehabilitation of Pits V 0 2 March 07 prepared by the former Dept. of Main Roads	March 2007

Schedule 2 – Approved plans

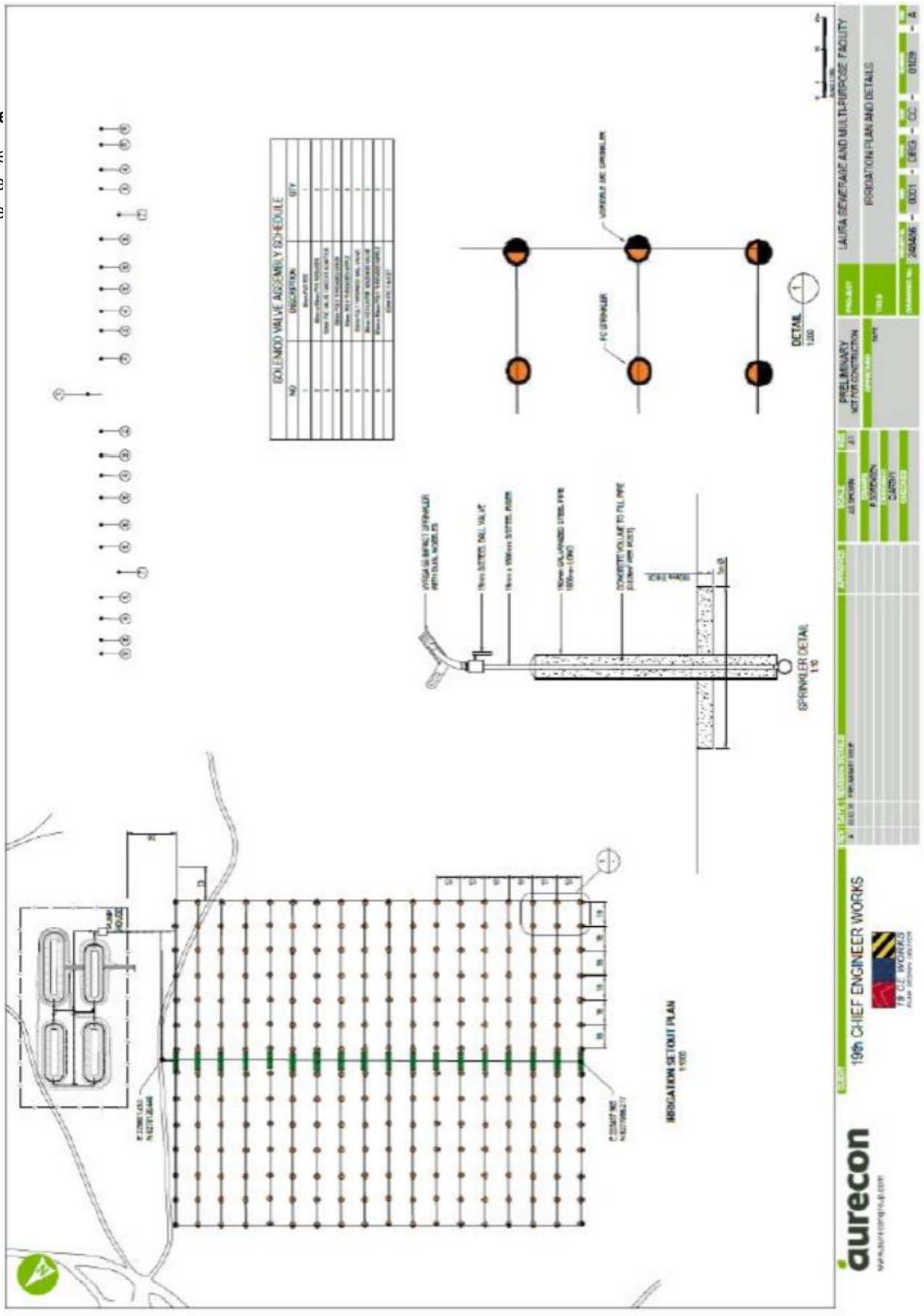
Laura Sewerage Lagoons, Treatment Lagoon Layout.
Total irrigation area (5 hectares)

Laura Sewerage and Multi-Purpose Facility, Irrigation Plan and Details.
As per this plan monitoring will occur at the release point E 225601.453 N 8278138,440


PENINSULA DEVELOPMENTAL ROAD
aurecon
19th CHIEF ENGINEER WORKS
LAURA SEWERAGE LAGOONS
TREATMENT LAGOON LAYOUT

De

Ke e
de t
be


SOLENOID VALVE ASSEMBLY SCHEDULE
DETAIL
1:20
SPRINKLER DETAIL
1:5
IRRIGATION SETOUT PLAN
1:500
PRELIMINARY
NOT FOR CONSTRUCTION
LAURA SEWERAGE AND MULTI-PURPOSE FACILITY
IRRIGATION PLAN AND DETAILS
19th CHIEF ENGINEER WORKS
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END OF ENVIRONMENTAL AUTHORITY