Permit

Environmental Protection Act 1994

Environmental authority EA0001945

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

Environmental authority number: EA0001945

Environmental authority takes effect on 22 October 2019.

The anniversary day of this environmental authority is **22 October**. The payment of the annual fee will be due each year on this day. An annual return will be due each year on **1 March.**

Environmental authority holder(s)

Name(s)	Registered address
Oasis Lifestyle Village Pty Ltd	1-9 Muntalunga Road NOME QLD 4816

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-ii) more than 100 but not more than 1500EP otherwise	Lot 1 on RP740607

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).

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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.

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 _____

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

Date 08/11/19

Enquiries:
Utilities and Government Organisations Assessment
Department of Environment and Science

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

Obligations under the *Environmental Protection Act 1994*

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

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

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.

Development Approval

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

Environmental authority

Conditions of environmental authority

Environmentally relevant activity	Location
63-(1b)(ii) Sewage treatment >100 to 1500 EP	1 Mutalunga Drive Nome Qld 4816 Lot 1 Plan RP740607

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**
G1	**Activities** conducted under this environmental authority must not be conducted contrary to any of the following limitations: 1. Operation of a sewage treatment plant with a **design average dry weather flow** capacity of 60kL/day.
G2	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the **activities**.
G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G4	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G5	All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the **administering authority** upon request and in the format requested.
G6	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (**NATA**) certification, or an equivalent certification, for such analyses. The only exception to this condition is for *in situ* monitoring of pH and electrical conductivity.
G8	An annual monitoring report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.

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G10	**You** must record the following details for all environmental complaints received: 1. date and time complaint was received 2. name and contact details of the complainant when provided and authorised by the complainant 3. nature of the complaint 4. investigations undertaken 5. conclusions formed 6. actions taken.
G11	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority** to investigate a complaint of **environmental nuisance** arising from the **activity**. The monitoring results must be provided within 10 business days to the **administering authority** upon its request.
G12	Treated sewage effluent may be removed from the site and used for an alternate purpose with the written consent of any third party involved.

Agency interest: Air

Condition number	**Condition**
A1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.

Agency interest: Land

Condition number	**Condition**
L1	The only contaminants to be released to land are treated effluent in accordance with the *Table 1 - Treated effluent release limits to irrigation areas* and the associated requirements.

Table 1- Treated effluent release limits to irrigation areas

Quality Characteristic (units)	Minimum	Long Term Median	Maximum	Minimum frequency
Volume (kL/ha/day)	-	30	86	Daily
BOD5 (mg/L)	-	-	20	3 monthly
Total Suspended Solids (mg/L)	-	-	1	3 monthly

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	Total Nitrogen (mg/L as N)	-	1	10	3 monthly
	Total Phosphorus (mg/L as P)	-	1	10	3 monthly
	pH (pH units)	6.5	-	8.0	3 monthly
	Enterococci /E.coli CFU/100ml)	-	10	100	3 monthly
	Electrical Conductivity (µS/cm)	-	50	100	3 monthly

Associated requirements

1. The area utilised for irrigation must be a minimum of 0.7 ha and must be in accordance with drawing ACS-DWG-18836-WTLND 22/22 shown in *Appendix 1: Authorised irrigation areas*.
2. Monitoring must be in accordance with the **administering authority**'s Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
3. Treated effluent must be distributed evenly across the irrigation areas.
4. Releases of treated effluent must not be outside of the irrigation areas indicated in *Appendix 1: Authorised irrigation areas.*
5. Monitoring must be undertaken when treated sewage effluent is being irrigated, unless irrigation has ceased for longer than the relevant parameters specified minimum frequency.
6. The monitoring point is the suction point for irrigation at the constructed wetland overflow spillway. The latter is indicated in *Appendix 1: Authorised irrigation areas*.
7. 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.
8. Indicators for TN and TP are recommended to be sampled as grab samples.

L2	Treated effluent released to land must be done in accordance with documentation that ensures: 1. drainage to **groundwater** and subsurface flows of contaminants to surface waters are minimise; and 2. surface pondage and run-off of effluent is prevented; and 3. degradation of soil structure is minimised; and 4. soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; and 5. spray drift or overspray does not carry beyond effluent disposal areas; and 6. effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; and 7. sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.

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<table>
<tr><td>L3</td><td>When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.</td></tr>
<tr><td colspan="2">Agency interest: Water</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>WT1</td><td>The only contaminants to be released to surface waters are treated effluent from the constructed wetland and adjacent tank overflow outlet in accordance with Table 2- Surface water release limits and the associated requirements.

Table 2- Surface water release limits
<table>
<tr><th>Release Point Name</th><th>Quality characteristic (units)</th><th>Minimum</th><th>Long-term Median</th><th>Maximum</th></tr>
<tr><td>RP</td><td>BOD5 (mg/L)</td><td>-</td><td>-</td><td>20</td></tr>
<tr><td>RP</td><td>Total Suspended Solids (mg/L)</td><td>-</td><td>-</td><td>1</td></tr>
<tr><td>RP</td><td>Annual volume[1] (kL)</td><td>-</td><td>-</td><td>4500</td></tr>
<tr><td>RP</td><td>Total Nitrogen (mg/L as N)</td><td>-</td><td>1</td><td>10</td></tr>
<tr><td>RP</td><td>Total Phosphorus (mg/L as P)</td><td>-</td><td>1</td><td>10</td></tr>
<tr><td>RP</td><td>pH (pH units)</td><td>6.5</td><td>-</td><td>8.0</td></tr>
<tr><td>RP</td><td>E. coli (cfu/100ml)</td><td>-</td><td>10</td><td>100</td></tr>
<tr><td>RP</td><td>Electrical Conductivity (µS/cm)</td><td>-</td><td>50</td><td>100</td></tr>
</table>
Associated requirements

1. The total volume of releases on any day must not exceed 10% of the flow volume for that day as measured at the Alligator Ck gauge 118106A.

2. Release point RP is as described by 'RP' shown in drawing ACS-DWG-18836-WTLND 3/22 – see Appendix 2: Authorised surface water release location.

3. Indicators for TN and TP must be done as 24 hour composite samples.

4. Annual Volume must be calculated quarterly on a rolling basis.</td></tr>
<tr><td>WT2</td><td>Monitoring of contaminant releases to waters must be undertaken in accordance with Table 3 - Monitoring frequency and the associated monitoring requirements and records of the results must be kept.</td></tr>
</table>

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Table 3 - Monitoring frequency

Quality Indicator (units)	Measurement (units)	Minimum frequency	Monitoring Location
BOD5	(mg/L)	Once each release event	MP
Total Suspended Solids	(mg/L)	Once each release event	MP
Volume (release from spillway)	(kL)	Daily during release events	MP
Volume (inflow to STP)	(kL)	Daily	STP inflow pipe
Total Nitrogen	(mg/L as N)	Once each release event	MP
Total Phosphorus	(mg/L as P)	Once each release event	MP
pH	(pH units)	Once each release event	MP
Dissolved Oxygen	(mg/L)	Once each release event	MP
Electrical Conductivity	(µS/cm)	Once each release event	MP
E. Coli	(CFU/100mL)	Once each release event	MP

Associated monitoring requirements

1. Monitoring point MP is as described by 'MP' shown in drawing ACS-DWG-18836-WTLND 3/22 – see *Appendix 2: Authorised surface water release location.*
2. Monitoring must be in accordance with the "Water Quality Sampling Manual" and all monitoring devices must be effectively calibrated and maintained.
3. Monitoring must be undertaken when the **activity** is in operation and samples must be taken at the commencement of a release.

WT3	In addition to WT1, the release 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 visually objectionable matter.
Agency interest: Waste	
Condition number	**Condition**
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.

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 activities, whether resource activities or prescribed activities, to which the environmental authority relates.

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

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

BOD5 means the 5 day biochemical oxygen demand determined using standard tests (e.g. those used by

NATA laboratories). This test is not inhibited for nitrification, otherwise would be referred to as "carbonaceous" BOD.

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

Day means any 24 hour period.

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

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

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

Long Term (water release limit) means a limit applied to consecutive samples taken over a one year period (calculated quarterly on a rolling basis) where consecutive samples are taken at each release event.

Long Term (land release limit) means a limit applied to 4 consecutive samples taken over a one year period (calculated quarterly on a rolling basis) where consecutive samples are taken at approximately equal quarterly intervals (plus or minus 2 days).

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

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.

NATA means National Association of Testing Authorities.

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

Release of a contaminant into the environment means to:

1. deposit, discharge, emit or disturb the contaminant
2. cause or allow the contaminant to be deposited, discharged, emitted or disturbed
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed
4. allow the contaminant to escape
5. fail to prevent the contaminant from escaping.

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

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public thoroughfare, park or gardens; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019.

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

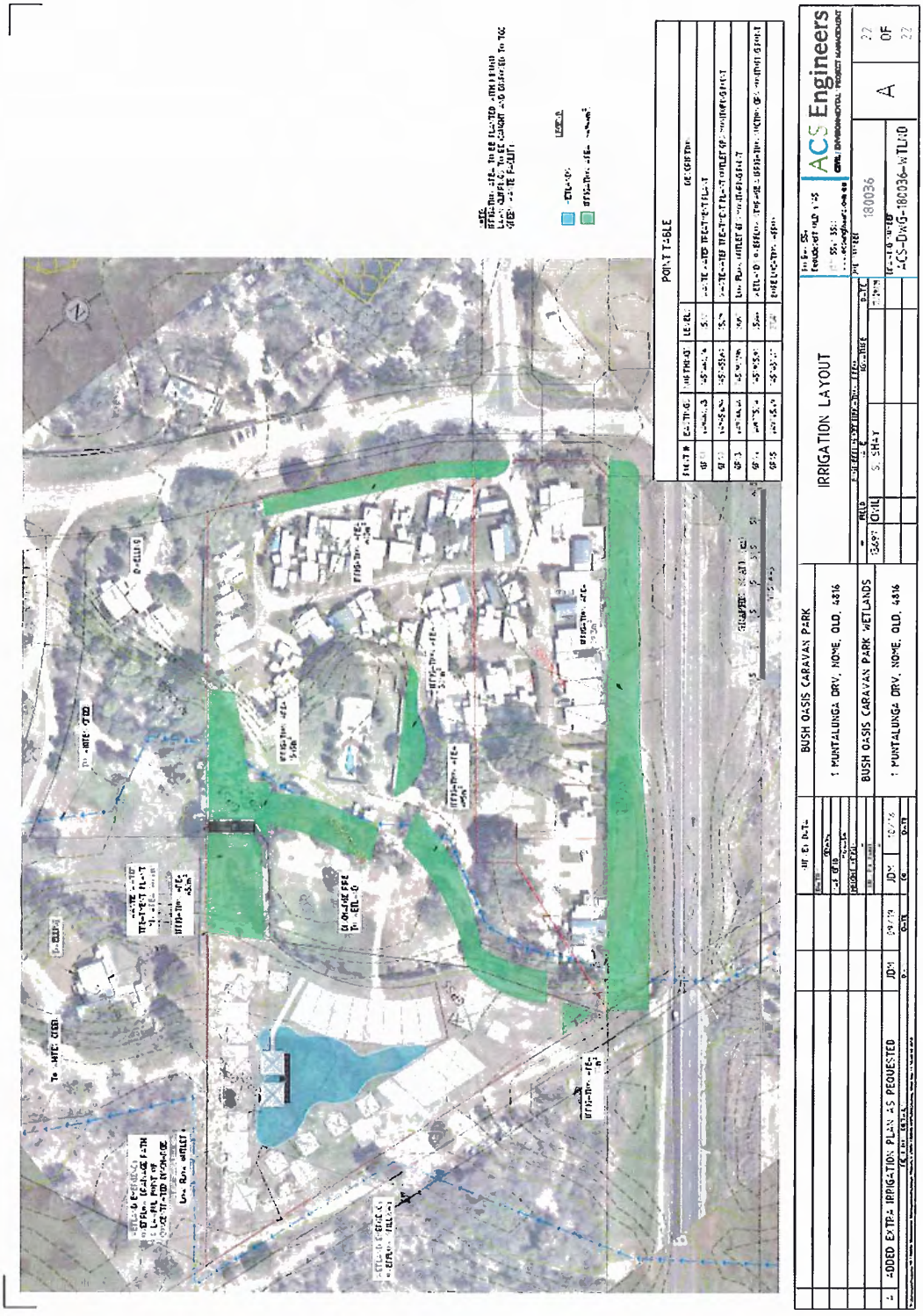
Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

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

Wet Weather Day means a day which is not a dry weather day.

You means the holder of the environmental authority.

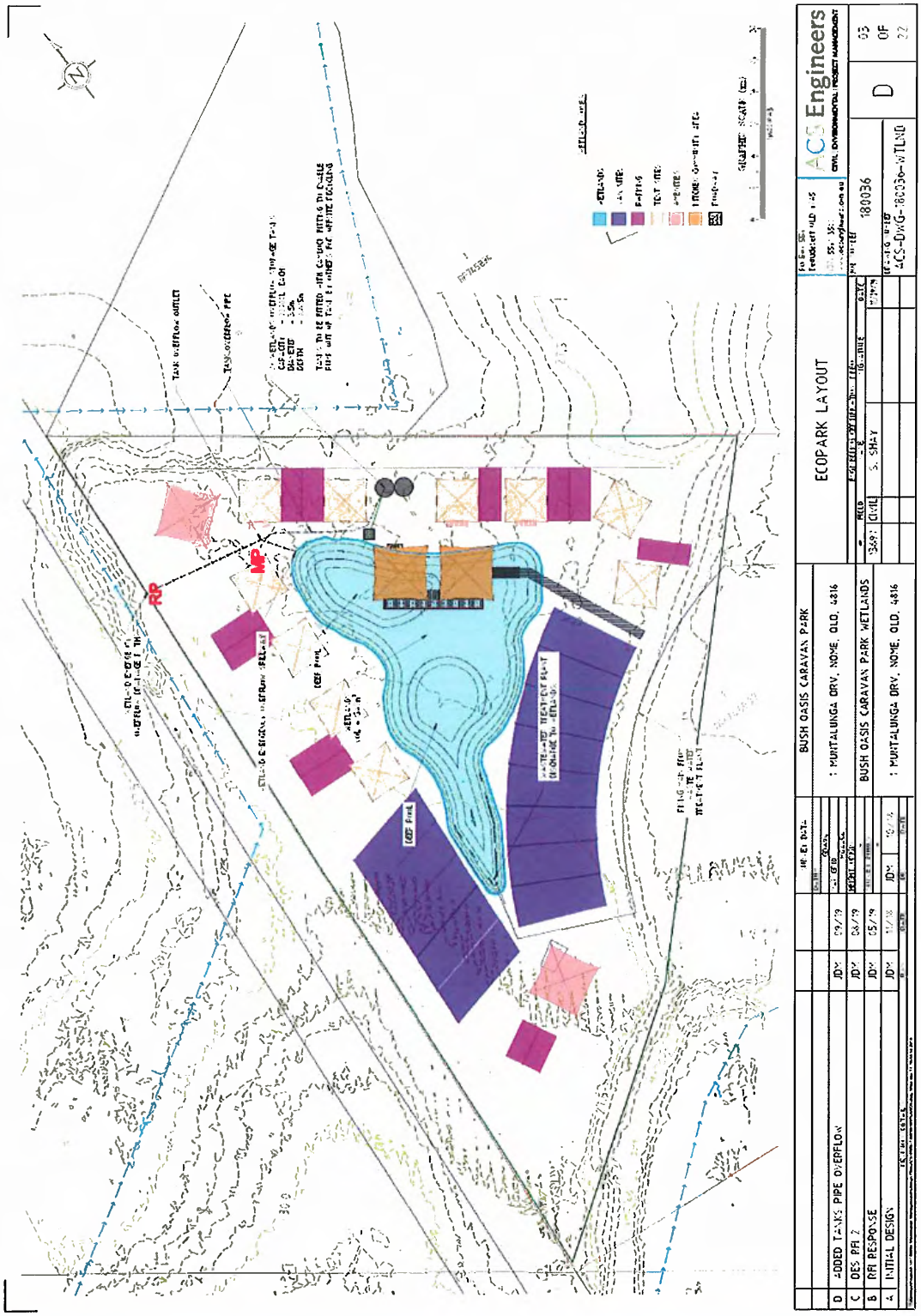
Appendix 1: Authorised irrigation areas



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Queensland Government

Appendix 2 – Authorised surface water release location



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