

Permit¹

Environmental Protection Act 1994

Environmental authority – EPPR00516713

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

Permit¹ number: EPPR00516713

Environmental authority takes effect on 08th Aug 2016.

The anniversary date of this environmental authority remains as 09th September. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Couran Point Services Pty Ltd	21 Homebush Drive ROBINA QLD 4226

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
63-(1b)(i) Sewage treatment >100 to 1500EP - IT or IR	South Stadbroke Island and SOUTH STRADBROKE - Lot 2 Plan RP804685 (STP), Lot on Plans 0/SP151361, 0/SP113737, 0/SP159253, 5/SP208798, 4/SP208798, 2/SP208798 and Easement adjacent to the previous mentioned Lot on Plans (irrigation areas).

Additional information for applicants

Environmentally relevant activities

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

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

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation



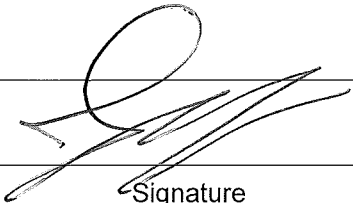
A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

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

- a notifiable **activity** (as defined in Schedule 3) that is being, or has been, carried out on the land (notice must be given within 20 business **days**)
- an event involving a hazardous contaminant on the land, or a change in the condition of the contaminated land, that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours).

For further information, including the form for giving written notice, refer to the Queensland Government website <http://www.qld.gov.au/> (using the search term 'managing contaminated land').


Signature

Tariq Khan
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

8/8/2016
Date

Enquiries:
Department of Environment and Heritage
Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: 07 3330 6037
palm@ehp.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

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

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

Conditions of environmental authority

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of 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: a) Inflows to the Sewage Treatment works must not exceed the peak design capacity of 75kL on any day [calculated as the daily average taken over any monthly period]. b) A minimum irrigation area of 1000m² must be available for disposing each kL of treated effluent. c) A minimum irrigation area of 6.6 hectares must be available when the property is fully developed. (i.e. irrigating 75kL on any day).
G2	All reasonable and practicable measures must be taken to prevent the likelihood of environmental harm being caused.
G3	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable, or at most, within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G4	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
G8	A receiving environment monitoring program must be designed and implemented by appropriately qualified persons to monitor the effects of the activity on land and groundwater

G9	Monitoring of Groundwater You must carry out an annual groundwater contamination impact assessment and submit a Groundwater Contamination Report to the administering authority on the inter-relationship between any discharge of effluent and groundwaters in the vicinity of the defined contaminant release/overflow release areas. The groundwater contamination impact assessment must include but not be limited to: - groundwater monitoring bore(s) installed down gradient of each defined contaminant release area to intercept any aquifer potentially affected by the irrigation using effluent; - background groundwater quality monitoring is to be carried out hydraulically upgradient of the defined contaminant release areas; - standing water levels in the monitoring bore(s) must be measured and recorded at least on each occasion that samples are obtained. Such measurement must be undertaken prior to any disturbance by sampling and be reported as the depth in metres from the established reference point to the water surface in the bore; and - any groundwater samples obtained must be collected and analysed, at the frequency and for all the quality characteristics listed in condition G11.
G10	The assessment and reports identified in conditions G9 for groundwater monitoring must be carried out in accordance with the technical guidance documentation specified in the Australian & New Zealand Environment & Conservation Council's "Guidelines for Groundwater Protection in Australia", February 2010 or the latest version.
G11	You must monitor and record the quality of groundwater to detect any possible impacts of contaminants for, at least, the following water quality characteristics: (a) Total Nitrogen (as N); (b) Nitrate nitrogen (as N); (c) Nitrite nitrogen (as N); (d) Ammonia nitrogen (as N); (e) Total Phosphorus (as P); (f) Chloride; (g) electrical conductivity; (h) Total Dissolved Solids; (i) PH; (j) total coliforms (cfu); and (k) faecal coliforms (cfu). Note 1: The parameters shall be monitored at least once prior to commencement, then six monthly after commencement for first year, and then annually thereafter.
G12	You shall implement a groundwater investigation program for any variation of water quality characteristics between groundwater monitoring bores that indicates the causation or threatening of environmental harm and or adverse effects on the environmental values of the groundwater.

G13	You must prepare annually, a report on the sustainability of the Couran Point Effluent Irrigation Scheme, giving consideration to the Groundwater Monitoring Report referred to in condition G12 and Soil Survey and Management Report referred to in condition L4. This Sustainability Report shall include an interpretation of the results and conclusions by an expert in the field of effluent land disposal, including any recommendations to achieve sustainability and or compliance with the conditions of this Environmental Authority should monitoring indicate non-sustainability and or noncompliance with the conditions of this Environmental Authority.
G14	An annual monitoring report must be prepared and made available to the administering authority upon request. This report shall include but not be limited to: a) a summary of the previous twelve (12) months' monitoring results relating to the following:- i. quantity of wastewater generated [this includes daily flows, calculation of monthly and yearly averages] in electronic format, such as EXCEL] and in graphical format; and ii. quality and quantity of all effluent irrigation [as daily measurements and monthly averages based on daily flows], [this includes any emergency discharges, wet weather overflows], from the Couran Point Wastewater Treatment Plant and associated infrastructure [in electronic format, such as EXCEL] and in graphical format; and b) summary of the record of equipment failures [associated with the Couran Point Wastewater Treatment Plant, including sewage pump stations] or events recorded for any licensed place to which this Environmental Authority relates that resulted in serious or material environmental harm or non-compliance with this Environmental Authority; and c) summary of unauthorised releases which resulted in serious or material environmental harm and actions taken by you to minimise such environmental harm; and d) a summary of any trade waste and third party agreements entered into or amended during the year, including the nature of the industry, if applicable. e) an evaluation/explanation of the data from any monitoring programs; and f) an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs; and g) the number of "blocks" connected to the Couran Point Wastewater Treatment Plant during the previous twelve (12) months; and h) the progressive total number of "blocks" connected to the Couran Point Wastewater Treatment Plant.
G15	When required by the administering authority, monitoring must be undertaken in the manner prescribed by the administering authority, to investigate a complaint not considered by the administering authority to be frivolous or vexatious, of environmental nuisance arising from the activity. The monitoring results must be provided to the administering authority upon request.

G16	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. b) establish and maintain control measures that minimise the potential for environmental harm c) ensure plant, equipment and measures are maintained in a proper and effective condition d) ensure plant, equipment and measures are operated in a proper and effective manner e) ensure that staff are trained in and aware of their obligations under the <i>Environmental Protection Act 1994</i>. f) ensure that reviews of environmental performance are undertaken at least annually.
Agency interest: Air	
Condition number	Condition
A1	Odours or airborne contaminants must not cause environmental nuisance at a sensitive place or commercial place
Agency interest: Water	
Condition number	Condition
WT1	Contaminants must not be released to any waters .
Agency interest: Stormwater Management Plan	
Condition number	Condition
SW1	You must develop and implement a Stormwater Management Plan which provides for the following functions: a) avoidance or minimisation of contaminated stormwater; and b) reuse, treatment and disposal of contaminated stormwater. For the purpose of this Environmental Authority, contaminated water includes: a) treated effluents from the wastewater treatment plant, and associated infrastructure; b) effluent irrigation runoff, and stormwater runoff from the irrigation areas; c) leachate from sludge drying beds; d) liquids from chemical storage and washdown areas; and e) sludges from the wastewater and composting operations.



Agency interest: Noise and Vibration						
Condition number	Condition					
N1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .					
N2	Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in Table 1 – Noise limits and the associated requirements at any nuisance sensitive place or commercial place .					
Table 1 – Noise limits and the associated requirements at any nuisance sensitive place or commercial place						
Noise level measured in dB(A)	Monday to Saturday			Sunday and Public Holidays		
	7am–6pm	6pm–10pm	10pm–7am	9am–6pm	6pm–10pm	10pm–9am
	Noise measured at the nearest sensitive place					
LA10, adj, 10 mins	50	45	35	45	40	35
LA1, adj, 10 mins	55	50	40	55	50	40
	Noise measured at a commercial place					
LA10, adj, 10 mins	55	50	40	55	50	40
LA1, adj, 10 mins	65	60	50	65	60	50
N3	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 and must include: a) LA 10, adj, 10 mins b) LA 1, adj, 10 mins c) the level and frequency of occurrence of impulsive or tonal noise; atmospheric conditions including wind speed and direction; effects due to extraneous factors such as traffic noise; and location, date and time of recording.					
N4	The method of measurement and reporting of noise levels must comply with the latest edition of the Department of Environment and Heritage Protection's Noise Measurement Manual.					

Agency interest: Waste	
Condition number	Condition
W1	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Land Disposal	
Condition number	Condition
L1	The volume of wastewater generated must be determined or estimated by an appropriate method on a daily basis, for example an accurate flowmeter, and records kept of such determinations and estimates.
L2	The only contaminants to be released to land are treated sewage waters , in accordance with the Table 2 – Treated effluent release limits to irrigation area and the associated requirements.
L3	Monitoring of Land Monitoring must be undertaken and records kept of contaminant releases to land from the "Monitoring Point" specified in Table 2 – Treated effluent release limits to irrigation area. Monitoring must be for the quality characteristics at the frequency specified Table 2 – Treated effluent release limits to irrigation area. All determinations of the quality of contaminants released must be: - made in accordance with methods prescribed in the latest edition of the Department of Environment and Heritage Protection's Water Quality Sampling Manual; and - carried out on samples that are representative of the discharge.
L4	Soil Monitoring A Soil Survey and Management Report must be prepared prior to irrigation and thereafter at the frequency specified in the Soils Monitoring Protocol.
L5	The soil monitoring report must interpret soil testing results and provide advice on sustainable loadings and soil management, depending on effluent quality and the type of soils and vegetation being irrigated associated with the Effluent Irrigation Scheme, and implement such measures as to ensure sustainable loadings and soil management should the report indicate non-sustainable land disposal associated with the Effluent Irrigation Scheme.

Table 2 – Treated effluent release limits to irrigation area ¹								
Release Point Name 2,3,4	Monitoring Point	Quality Characteristic (units)* ²	Minimum ²	Median ²	50 th %ile	80 th %ile	Maximum ²	Minimum frequency ^{2,4}
Effluent Irrigation System	STP Effluent Outlet-Post Disinfection	BOD5 [inhibited] (mg/L) ⁵	-	-		10	20	Every 4 week(s)
		Suspended Solids (mg/L) ⁵	-	-		5	10	Every 4 week(s)
		Dissolved Oxygen (mg/L)	2.0	-			-	Every 4 week(s)
		Total Nitrogen (mg/L as N) ⁶	-	-	10	-	20	Every 4 week(s)
		Total Phosphorus (mg/L as P) ⁶	-	-	1	-	2	Every 4 week(s)
		pH (pH units)	6.5	-	-	-	8.5	Every 4 week(s)
		Faecal (Thermotolerant Coliforms) CFU/100ml	-	10cfu/100 mL ⁸			20cfu/100mL	Weekly
		Electrical Conductivity (µS/cm)						Every 4 week(s)
	Effluent prior to disinfection	Turbidity (NTU)					2.0	Continuous and continuously recorded
	Chlorine Contact Tank	Free Chlorine mg/L ["CT equivalent of minimum of 450mg/L.min calculated at peak flow rate and using "modal contact time of at least 90 minutes]	1.0					Daily
	Wet Weather Storage Tank(s)	Free chlorine mg/L	1.0					Daily
	Irrigation system ⁹	Free Chlorine mg/L ⁹	0.2				1.0	Daily

* Some of these quality indicators can be deleted depending on final use.

Associated requirements

1. **Minimum irrigation area** (ha) as outlined in attached Figure 2 – Group A, B, C and E 'Summary of Possible Effluent Irrigation Areas on Fully Developed Land'.
2. Monitoring must be in accordance with the **administering authority's** Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
3. Releases of treated effluent must not be outside of the **land** shown in Figure 2 – Group A, B, C and E 'Summary of Possible Effluent Irrigation Areas on Fully Developed Land'.
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. BOD and Total Suspended Solids are about determining that the plant is achieving design outputs.
6. Indicators for TN and TP are recommended to be done as grab samples.
7. Enterococci counts are the recommended pathogen indicator for assessing potential risks to recreational water, E. coli counts may be more relevant for **land** irrigation where recreation is unlikely.
8. Means median of five consecutive samples taken over 24 hours
9. Indicates at the furthest point in Effluent Irrigation System.

L6	The total quantity of effluent released to land must not exceed 75kL per day [calculated as the daily average taken over any monthly period.].
L7	An on-line real time turbidity meter must be installed prior to disinfection to monitor turbidity continuously to check compliance with Table 2 – Treated effluent release limits to irrigation area.
L8	When weather conditions or soil conditions preclude the release of treated sewage effluent to land , effluent must not be irrigated to land .
L9	You must develop and implement an Effluent Irrigation Management Plan [as part of the Site-Based Management Plan] which details how you will effectively and appropriately manage the effluent irrigation process in a safe and sustainable manner so as to comply with all conditions of this Environmental Authority, ensuring especially the environmental sustainability of the effluent reuse scheme, protection of public health and protection of environmental values of waters and lands .

L10	The Effluent Irrigation Management Plan must be based on modelling (eg "MEDLI" modelling) and on-site monitoring results and detail how irrigation is to be managed and scheduled and must have regard to at least the following: a. soil moisture results; b. weather forecasts and climate monitoring results; c. irrigation records for each effluent disposal area; d. characteristics and quantity of contaminants which are applied, including biochemical oxygen demand, suspended solids, total nitrogen, total phosphorus, conductivity, dissolved oxygen, pH, total dissolved salts, sodium, calcium, magnesium, sodium absorption ratio, potassium, chloride, sulphate, alkalinity, boron, heavy metals and microbiological effluent quality, f. characteristics of the soil in the defined contaminated release area, including pH, salinity, total dissolved salts, total nitrogen, total phosphorus, total potassium, sodium, calcium, magnesium, exchangeable cations, heavy metals; g. type of vegetation currently growing in the defined contaminant release area[s]; h. effluent quality results; i. soil quality results for the effluent disposal area(s); j. groundwater level results; k. sustainable hydraulic loadings for the defined contaminant release area; l. sustainable biological oxygen demand loadings for the defined contaminant release area; m. sustainable nitrogen loadings for the defined contaminant release area; n. sustainable phosphorous loadings for the defined contaminant release area; o. sustainable salt loadings for the defined contaminant release area; p. production of appropriate records and reporting of results and environmental issues; q. soil management and long term maintenance of soil properties to avoid impacts such as water logging and sodium and salinity buildup; r. details on local surface drainage both within the property and off-site; s. protection of surface water resources and maintenance of water quality; t. proposed measures to minimise the impact on sensitive receptors, including consideration of appropriate buffer distances; u. Control, maintenance and management of irrigation operations, including soil moisture results and management (eg scheduling); v. public health and safety; w. health and safety of operators; and x. monitoring of the irrigation system and proposed reporting program.
L11	The Effluent Irrigation Management Plan must address the suitability of the proposed irrigation area(s) and how irrigation is to be managed and scheduled having regard to the results obtained from any Impact Monitoring [<i>Groundwater Monitoring Report, Soil Survey and Management Report</i>] associated with this Environmental Authority.
L12	The Effluent irrigation Management Plan must also consider, but not be limited to, issues raised in the following documents where appropriate: a) National Water Quality Management Strategy, "Guidelines for Sewerage Systems - Reclaimed Water, February 2000." Agriculture and Resource Management Council of Australia and New Zealand., Australian and New Zealand Environment and Conservation Council, National Health and Medical Research Council; b) Department of Natural Resources, "Interim Guidelines For Reuse Or Disposal Of Reclaimed Wastewater" 1996.

L13	Irrigation using effluent must be carried out in a manner such that: a) vegetation is not damaged; b) soil erosion and soil structure damage is avoided; c) the capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter is not exceeded; and d) the quality of ground water is not adversely affected.
L14	Areas irrigated with effluent must be maintained in a proper and efficient condition so as to provide adequate assimilation, percolation, evaporation and transpiration of the effluent.
L15	Irrigation using effluent to land must not be carried out if soil moisture conditions are such that surface runoff or ponding or pooling beyond the property boundary is likely to occur.
L16	Spray from any release of effluent to land must not drift beyond the boundaries of the irrigated lands(s) .
L17	Effluent shall be applied at a rate that does not exceed the infiltration rate of the soil such as to prevent runoff and or ponding and or pooling.
L18	Adequate soil moisture meters must be placed in areas marked A, B, C and E of the figure 2 'Summary of Possible Effluent Irrigation Areas on Fully Developed Land ' and used to control irrigation rates so as to comply with the conditions of this Environmental Authority.
Agency interest: Supplying treated sewage effluent to a third party	
Condition number	Condition
TP1	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: Community	
Condition number	Condition
C1	In consultation with the administering authority , cooperate with and participate in any community environmental liaison committee established in respect of either the site specifically, or the industrial estate where the site is located.

Definitions

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

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

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

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

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.

Land in the "area of interest" of this document means land excluding waters and the atmosphere.

L_{A10, adj, 10 mins} means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

L_{A 1, adj, 10 mins} means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

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

mg/L means milligrams per litre.

NTU means nephelometric turbidity units.

Protected area means -

- a protected area under the Nature Conservation Act 1992; or
- a marine park under the Marine Parks Act 1992; or
- a World Heritage Area.

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

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or



- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Soils Monitoring Protocol means the following:

Initial Survey (Prior to Effluent Application)

15 random soil samples composited into a bucket. For large schemes, repeat this for each discrete physiographic unit (eg one set from hill slope, one set for alluvial river flat or other location where soil type is likely to differ)

Sample A1 horizon and A2 horizon (0 —10cms) or bottom of A2 horizon if B horizon is impermeable (sampling depths recorded by licensee)

Measure -

pH (water)

EC (1:5)

Exchangeable Ca, Mg, Na, K

Effective cation exchange capacity (ECEC)

Exchangeable sodium percentage

Total organic C

Total N

KCl extractable NH_4^+ and NO_3^-

P sorption curve, and the derived parameters of the Freundlich coefficients (for use in MEDLI) and P sorbed at specified solution P concentrations ranging from 0.5 mg P/L to 20 mg P/L.

Extractable P (Colwell method)

Particle size analysis

At Annual Intervals

15 random soil samples composited into a bucket. For large schemes, repeat this for each discrete physiographic unit (e.g. one set from hill slope, one set for alluvial river flat or other location where soil type is likely to differ)

Sample A1 horizon and A2 horizon (say 0 —10cms) or bottom of A2 horizon if B horizon is impermeable (sampling depths recorded by licensee)

Measure

pH (water)

EC (1:5)

Exchangeable Ca, Mg, Na, K

Exchangeable sodium percentage

Total N

KCl extractable NH_4^+ and NO_3^-

Extractable P (Colwell method)

Heavy metal/toxicant suite (ONLY for larger local government sewage systems incorporating trade waste, dependant on analysis of treated wastewater release. Such analysis report to be provided to the soils laboratory).

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.

"50th percentile" means not more than three (3) of the measured values of the quality characteristic are to exceed the stated release limit for any six (6) consecutive samples for a release/monitoring point at any time during the environmental activity(ies) works.

"80th percentile" means not more than one (1) of the measured values of the quality characteristic is to exceed the stated release limit for any five (5) consecutive samples for a sampling point at any time during the environmental activity(ies) works

Figure 1 – Overall Site Plan with respect to surrounding land

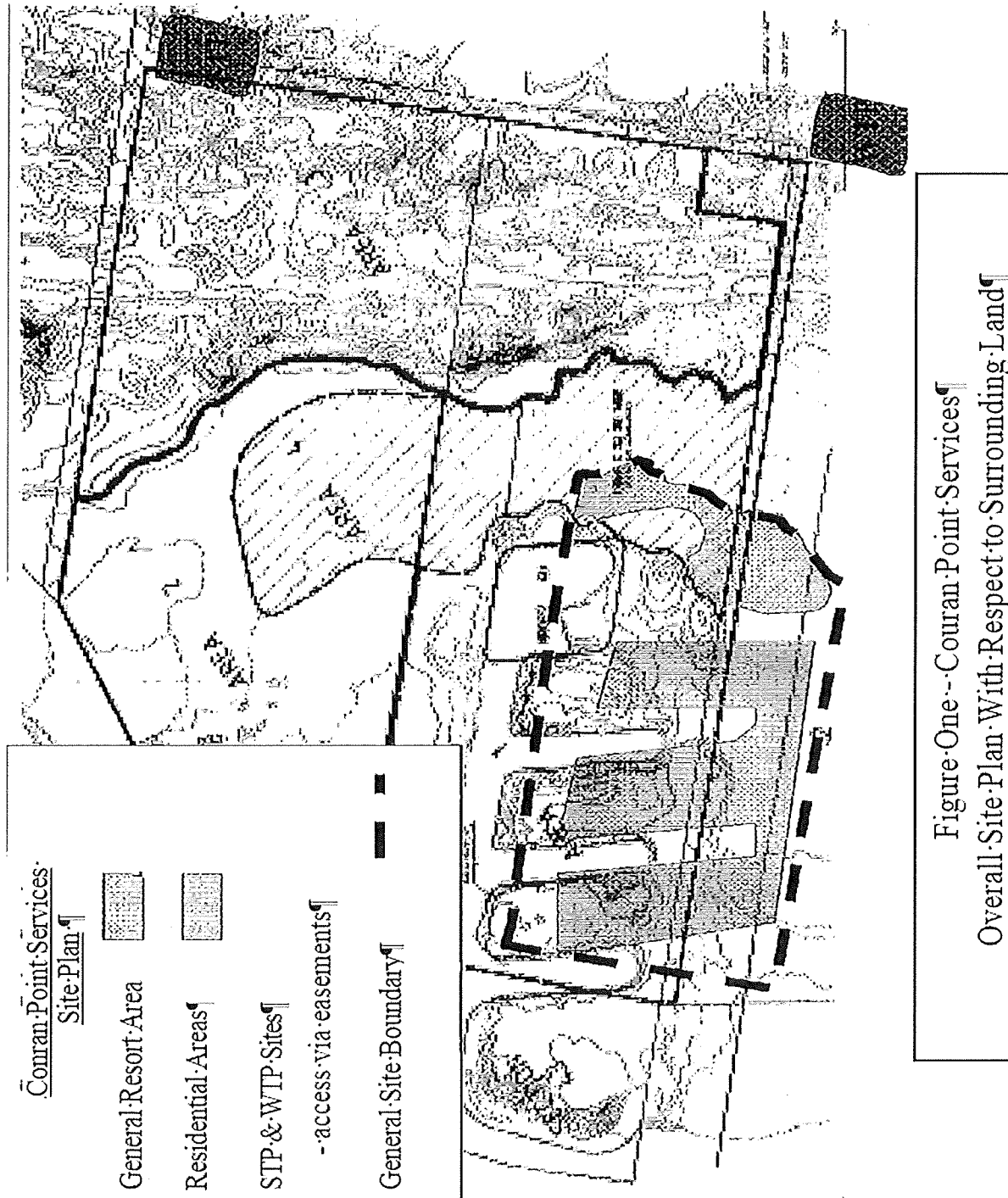
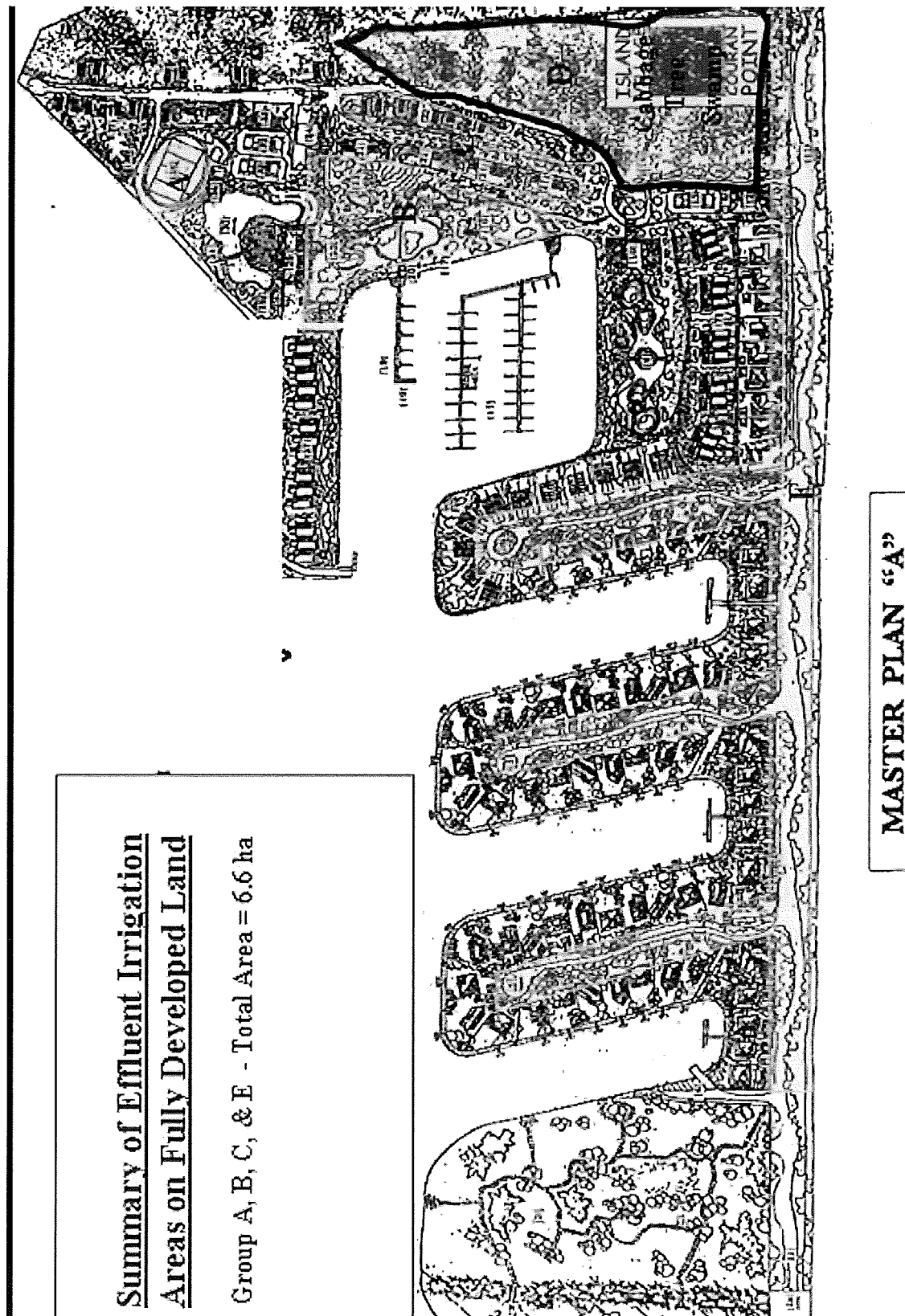


Figure 2 'Summary of Possible Effluent Irrigation Areas on Fully Developed Land'



END OF PERMIT





Department of
**Environment and
Heritage Protection**

08-AUG-2016

To: Couran Point Services Pty Ltd
PO Box 792
SOUTHPORT QLD 4215

Email: juliemikes@bigpond.com

Your reference: EPPR00516713
Our reference: 241314

Application details

I refer to the application that was received by the administering authority on 27-JUN-2016 to remove ERA 16 Municipal water treatment, remove references to imhoff/absorption mounds due to decommissioning and modify some conditions to allow for the most appropriate and technically advanced methods to achieve the environmental outcomes.

Land description:

South Stadbroke Island and SOUTH STRADBROKE - Lot 2 Plan RP804685 (STP), Lot on Plans 0/SP151361, 0/SP113737, 0/SP159253, 5/SP208798, 4/SP208798, 2/SP208798 and Easement adjacent to the previous mentioned Lot on Plans (irrigation areas).

Decision

Your application has been approved and your environmental authority (reference EPPR00516713) is attached.

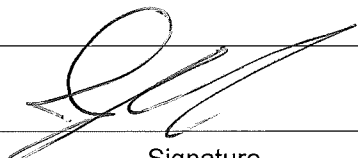
Additional comments or advice

The administering authority has made a number of amendments to the environmental authority to bring the conditions of the environmental authority in line with current model operating conditions and common conditions and reflect the department's regulatory strategy. These additional changes have been agreed to in writing by the environmental authority holder on 08-AUG-2016.

Should you have any further enquiries, please contact Diana Gutierrez on telephone (07) 4529 8381.

Yours sincerely

Diana Gutierrez
Industry and Development Assessment
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TOOWOOMBA QLD 4350
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Website www.ehp.qld.gov.au
ABN 46 640 294 485


Signature

8/8/2016

Date

Tariq Khan
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR00516713)
