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Queensland Government

Department of
Environment and Heritage Protection

To: Charters Towers Regional Council
PO Box 189
CHARTERS TOWERS QLD 4820
Attention: Marnie Taylor
Email: mail@charterstowers.qld.gov.au

Your reference: EPPR00197513
Our reference: 223443

I refer to the application that was received by the administering authority on 05-JAN-2015.

Land description: FRJ Butcher Water Treatment Plant, Lot 267 Plan RP676; Charters Towers Sewage Treatment Plant(STP), Lot 13 Plan DV499, Greenvale STP, Lot 155 Plan CP895491.

Your application for a Minor Amendment was approved and your environmental authority conditions (reference EPPR00197513) for Greenvale STP were emailed to you on the 17-FEB-2015.

The department has now updated the Environmental Authority (EA) to include conditions for all of the Environmentally Relevant Activities operated by Council on this amalgamated EA, including the amended conditions for Greenvale STP.

Please find attached the Environmental Authority.

Should you have any further enquiries, please contact Vicki Carney on telephone 0733305884

Yours sincerely

	14/4/15
Signature	Date

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

Attached: Permit - environmental authority (reference EPPR00197513)

Level 8
400 George Street Brisbane
GPO Box 2454 Brisbane
Queensland 4001 Australia
Telephone + 61 7 33305884
Website www.ehp.qld.gov.au
ABN 46 640 294 485

Permit[1]

Environmental Protection Act 1994

Environmental authority

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

The anniversary date of this environmental authority is **20 July**.

Environmental authority holder

Name	Registered address
Charters Towers Regional Council	12 Mosman Street CHARTERS TOWERS QLD 4820

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
63-(1b)(ii) Sewage treatment >100 to 1500EP - no IT or IR	Greenwater Sewage Treatment Plant, Gregory Development Road, GREENVALE QLD 4816 - Lot 155 Plan CP895491
64-(3) Water treatment >10ML raw water day.	FRJ Butcher Water Treatment Plant, Wheelers Road, CHARTERS TOWERS QLD 4820 - Lot 267 Plan RP676
63-(1d) Sewage treatment >4000 to 10000EP	Charters Towers Sewage Treatment Plant, Flinders Highway, CHARTERS TOWERS QLD 4820 - Lot 13 Plan DV499

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.

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

Environmental authority

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.

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 if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.

Signature	14/4/15 Date

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

Enquiries:
Vicki Carney
Government Organisations and Utilities Assessment
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Email: Vicki.Carney@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

Location: Gregory Development Road Greenvale QLD 4816 - Lot 155 CP895491.

Relevant activity/ies: 63-(1b)(ii) Sewage treatment >100 to 1500EP

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	All reasonable and practicable **measures** must be taken to prevent the likelihood of environmental harm being caused.
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.
G3	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G4	All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the **administering authority** upon request and in the format requested.
G5	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G6	An annual monitoring report must be prepared for the preceding year and submitted to the **administering authority** with the annual return.

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G7	**You** must record the following details for all environmental **complaints** received: a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
G8	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.
G9	The **activity** must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the **activity** during routine operations, closure and an emergency 2. establish and maintain control **measures** that minimise the potential for environmental harm 3. ensure plant, equipment and **measures** are maintained in a proper and effective condition 4. ensure plant, equipment and **measures** are operated in a proper and effective manner *5.* ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.

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	Ponds used for the storage or treatment of effluent or wastes must be constructed, installed and maintained to: a) prevent any release of effluent or wastes from the ponds b) ensure the stability of the pond structure.

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WT2

The release of contaminants to the storage pond on Lot 155 CP895491 must be monitored at a point prior to release from the Sewage Treatment Plant in accordance with:

Table 1 - Release Quality Characteristic Limits

Quality Characteristics	Release Limit	Limit Type	Minimum Frequency
5-Day Biological Oxygen Demand	15mg/L	Long term 80th percentile compliance	Every 12 weeks
5-Day Biological Oxygen Demand	23mg/L	Short term 80th percentile compliance	Every 12 weeks
5-Day Biological Oxygen Demand	45mg/L	Maximum	Every 12 weeks
Suspended solids	20mg/L	Long term 80th percentile compliance	Every 12 weeks
Suspended solids	30mg/L	Short term 80th percentile compliance	Every 12 weeks
Suspended solids	60mg/L	Maximum	Every 12 weeks
pH	6.5-8.5 units	range	Every 12 weeks
Dissolved Oxygen	2mg/L	minimum	Every week
Faecal coliforms, based on a minimum of 5 samples collected at not less than weekly intervals	1,000 colonies per 100 millilitres	medium	Every 12 weeks
Faecal coliforms, based on a minimum of 5 samples collected at not less than weekly intervals, with four out of five samples containing less than the maximum specified.	4,000 colonies per 100 millilitres	maximum	Every 12 weeks

Associated requirements

1. COD may be monitored as an alternative to BOD5 once a reliable correlation has been determined through analysis of a minimum number of 24 wastewater samples over a minimum period of 12 months and with the agreement of the administering authority.
2. Sampling must be in accordance with the Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
3. Sampling must be in accordance with the Water Quality Sampling Manual

WT3

Contaminants must not be released to **groundwater** or at a location where they are likely to release to **groundwater**.

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Agency interest: Waste	
Condition number	**Condition**
W1	All waste generated in carrying out the **activity** must be reused, recycled or lawfully disposed of offsite.

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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.

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

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.

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

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

Long term 80 percentile compliance means that not more than ten (10) of the measured values of the quality characteristic are to exceed the stated release limit for any fifty (50) consecutive samples where:

(i) the consecutive samples are taken over a one year period;
(ii) the consecutive samples are taken at approximately equal periods; and
(iii) the time interval between the taking of each consecutive sample is not less than six days.

Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, 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.
Release of a contaminant into the environment means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

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

- a 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 2004*, 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.

Short term 80 percentile compliance means that not more than one (1) of the measured values of the quality characteristic are to exceed the stated release limit for any five (5) consecutive samples where:

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

You means the holder of the environmental authority.

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

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Conditions of environmental authority

Location: FRJ Butcher Water Treatment Plant, Wheelers Road, CHARTERS TOWERS QLD 4820 - Lot 267 Plan RP676

Relevant activity/ies: 64-(3) Water treatment >10ML raw water day

Location: Charters Towers Sewage Treatment Plant, Flinders Highway, CHARTERS TOWERS QLD 4820 - Lot 13 Plan DV499

Relevant activity/ies: 63-(1d) Sewage treatment >4000 to 10000EP

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

Schedule A: General	
Condition number	**Condition**
A1-1	Except where otherwise indicated the conditions of this section of the development approval apply to all premises subject to the development approval.
A1-2	The carrying out of the activity must be done by: (a) installing and operating all works and control equipment, and (b) take all measures, perform all acts and do all things, necessary to ensure compliance with the conditions of this development approval.
A1-3	A copy of this development approval must be kept in a location that is readily accessible at the **authorised place.**
A1-4	Any record or document required to be kept by a condition of this development approval must be kept at the **authorised place** for a period of at least five years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any **daily** and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
A1-5	Copies of any record required to be kept by a condition of this development approval must be provided to any authorised person or the administering authority on request.
A1-6	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this development approval.
A1-7	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this development approval must be calibrated, and appropriately operated and maintained.
A1-8	Ensure that the operation and maintenance of sewage treatment and water supply treatment plants is carried out in a competent manner.

A1-9	**Integrated Environmental Management System (IEMS)** (a) develop and implement an IEMS which provides for the following functions: i. the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and ii. staff training and awareness of environmental issues; and iii. the conduct of environmental and energy audits; and iv. waste prevention, treatment and disposal; and (b) lodge with the administering authority on or before 1 August 1997and at six monthly intervals thereafter until 1 August 1999, a brief report describing the progress in developing and implementing the IEMS; and (c) on or before 1 March 2000, have completed and implemented the IEMS; and (d) on or before 1 March 2000 lodge a detailed description of the IEMS and its documentation with the administering authority for its review and comment; and (e) have due regard to that comment in the finalisation of the IEMS.
A1-10	Must not implement an integrated Environmental Management System or amend the Integrated Environmental Management System where such implementation or amendment would result in a contravention of any condition of this development approval.
A1-11	A copy of the Integrated Environmental Management System must be kept at the authorised place.
A1-12	Submit details of any amendment to the Integrated Environmental Management System to the administering authority with the Annual return which immediately follows the enactment of any such amendment.
A1-13	A copy of the Integrated Environmental Management System must be provided to the administering authority within 30 days of its completion.
A1-14	The IEMS must address the management of the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activity/activities at the following sites: Charters Towers Sewage Treatment Plant F E J Butcher (Charters Towers) Water Supply Treatment Plant
Schedule B: Air	
Condition number	**Condition**
B1-1	In the event of a complaint being made to the administering authority about odour generated on the **authorised place** that constitutes annoyance and that the administering authority considers to be neither frivolous or vexatious then measures must be taken to mitigate the odour source to minimise noxious or offensive odour being released beyond the boundaries of the authorised place.
Schedule C: Water	
Condition number	**Condition**
C1-1	Contaminants must not be directly or indirectly released from the **authorised place** to any waters or the bed and banks of any waters except: i. as permitted under the water schedule; or ii. as permitted under the stormwater management schedule; or iii. to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.

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C1-2	Contaminants must not be directly or indirectly released from any source on the **authorised place** to any waters at any location other than the contaminants and sources at the locations listed below: **Release Point Locations** Release point W1 - Waters described as Mossman Creek at a location described as adjacent to the sewage treatment plant at Charters Towers. **Contaminants and Sources for Release Points** Release point W1 - Sewage Treatment Plant Effluent from the Charters Towers Sewage Treatment Plant
C1-3	The only contaminants permitted to be released from the **authorised place** at other release Points are screened raw sewage from sewage pump station overflows as provided for in this development approval.
C1-4	The total quantity of contaminants released from release point number W1 during any dry weather day must not exceed 4,500 cubic metres and during a wet weather day must not exceed 3 x 4,500 cubic metres.
C1-5	The release of contaminants to waters must comply, at the sampling and in situ monitoring point(s) specified in Schedule H, with each of the limits specified in Table1-1 for each quality characteristic.

Schedule C Table 1-1
Release Quality Characteristic Limits Charters Towers Sewage Treatment Plant

Quality Characteristics	Release Limit	Limit Type
5-day Biochemical Oxygen Demand	15 **mg/L**	**long term 80th percentile** compliance
5-day Biochemical Oxygen Demand	23 **mg/L**	**short term 80th percentile** compliance
5-day Biochemical Oxygen Demand	45 **mg/L**	**maximum**
Suspended Solids	20 **mg/L**	**long term 80th percentile** compliance
Suspended Solids	30 **mg/L**	**short term 80th percentile** compliance
Suspended Solids	60 **mg/L**	**maximum**
pH	6.5 to 8.5 pH units	**range**
Dissolved Oxygen	2 **mg/L**	**minimum**
Free Residual Chlorine	0.7 **mg/L**	**maximum**
Faecal Coliforms, based on a **minimum** of five samples collected at not less than weekly intervals	1000 colonies per 100 millilitres	**median**
Faecal Coliforms, based on a **minimum** of five samples collected at not less than weekly intervals, with four out of five samples containing less than the **maximum** specified	4000 colonies per 100 millilitres	**maximum**

C1-6	The release 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.

C1-7	Pump stations whose failure would or would be likely to result in a direct or indirect release of contaminants to waters must be fitted with stand-by pumps and pump-failure alarms. Pump failure alarms must be able to operate without mains power if such power failure occurs and, when in operation, must be detectable in the nearest inhabited building.
C1-8	The pump station overflows referred to in condition C1-7 shall be screened to prevent the discharge of gross solids.
C1-9	Prior to the installation of any new pump station it must be demonstrated that overflows will not occur at a frequency greater than once every 5 years due to power failure and once every 10 years due to infiltration or where practicable provide storage to isolate and contain new pump station overflows
C1-10	All overflows and overflow control structures for new pump stations must be located away from environmentally sensitive locations including waterways and natural wetlands.
Schedule D: Stormwater Management	
Condition number	**Condition**
D1-1	The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.
D1-2	Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.
D1-3	All ponds used for the storage or treatment of contaminants or wastes must be installed and maintained to prevent any discharge through the bed or banks of the pond from causing environmental harm or environmental nuisance in any waters (including groundwaters).
D1-4	All ponds used for the storage or treatment of contaminants or wastes must be constructed and maintained so that a **freeboard** of not less than 0.5 metres is maintained at all times.
D1-5	All ponds used for the storage or treatment of contaminants or wastes must be constructed and maintained to ensure the stability of the ponds construction.
D1-6	Ponds or other structures used for the storage or treatment of contaminants or wastes, including any associated pumps and control equipment, must not be located in any area below the one in ten year flood level.
D1-7	Ponds or other structures used for the storage or treatment of contaminants or wastes must not be located in any area likely to receive substantial stormwater runoff.
D1-8	Suitable banks and or diversion drains must be installed and maintained to exclude stormwater runoff from any ponds or other structures used for the storage or treatment of contaminants or wastes.
Schedule E: Land Application	
Condition number	**Condition**
E1-1	The defined contaminant release area is described as Charters Towers Sewage Treatment Plant.
E1-2	The contaminant release area must not be used for, grazing, recreational activities or as a traffic thoroughfare.

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E1-3	The release of contaminants to land must not be carried out if soil moisture conditions are such that surface runoff or ponding is likely to occur.
E1-4	The contaminant release area must be maintained in a proper and efficient condition so as to provide adequate assimilation, percolation, evaporation and transpiration of the released contaminants.
E1-5	Spray from any release of contaminants to land must not drift beyond the boundaries of the **authorised place**.
E1-6	Public access to any contaminant release area must be denied during the release of contaminants to land and until the release area has dried.
E1-7	Notices warning the public not to use or drink the release of contaminants to land must be prominently displayed and must be maintained in a visible and legible condition.
E1-8	Pipelines and fittings for the release of contaminants to land must be clearly identified. Standard water taps, hoses and cocks must not be fitted to contaminant release pipelines, and the contaminant release system must not be connected to other service pipelines. Lockable valves or removable handles must be fitted to the contaminant release pipelines where there is public access to the contaminant release areas.
E1-9	The licensee shall be responsible for the quality of contaminant/s. The quality of the contaminant/s, as released to other parties for the purpose of irrigation, must comply, at the sampling point/s specified, with each of the release limits specified in schedule E Table 1-2 for each quality characteristic.
E1-10	Copies of agreements to supply contaminants for the purpose of irrigation shall be forwarded to the administering authority within thirty (30) days of the date of issue of this development approval.
E1-11	Copies of new agreements to supply contaminants for the purpose of irrigation shall be forwarded to the administering authority within thirty (30) days of their ratification.

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E1-12

The contaminant/s released must comply, at the sampling and in-situ measurement point/s specified in Schedule H, with each of the release limits specified in schedule E Table 1-2 for each quality characteristic.

Schedule E Table 1-2
Release Quality Characteristic Limits For Charters Towers Sewage Treatment Plant

Quality Characteristics	Release Limit	Limit Type
5-day Biochemical Oxygen Demand	15 **mg/L**	**long term 80th percentile** compliance
5-day Biochemical Oxygen Demand	23 **mg/L**	**short term 80th percentile** compliance
5-day Biochemical Oxygen Demand	45 **mg/L**	**maximum**
Suspended Solids	20 **mg/L**	**long term 80th percentile** compliance
Suspended Solids	30 **mg/L**	**short term 80th percentile** compliance
Suspended Solids	60 **mg/L**	**maximum**
pH	6.5 to 8.5 pH units	**range**
Dissolved Oxygen.	2 **mg/L**	**minimum**
Free Residual Chlorine.	0.7 **mg/L**	**maximum**
Faecal Coliforms, based on a **minimum** of five samples collected at not less than weekly intervals.	1000 colonies per 100 millilitres	**median**
Faecal Coliforms, based on a **minimum** of five samples collected at not less than weekly intervals, with four out of five samples containing less than the **maximum** specified	4000 colonies per 100 millilitres	**maximum**

SCHEDULE F - Noise

Condition number	**Condition**

NF

F1-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the **authorised place** must not result in levels greater than those specified in Table 1-3 of the Noise Schedule until the circumstances which gave rise to the complaint is resolved.

Schedule F Table 1-3

*Noise Level at a **Noise Sensitive Place** Measured as the Adjusted **Maximum** Sound Pressure Level $L_{Amax\ adj,\ T}$*	**Period**
Background noise level plus 5 (dBA)	7 am - 6 pm
Background noise level plus 5 (dBA)	6 pm - 10 pm
Background noise level plus 3 (dBA)	10 pm - 7 am
*Noise Limits at a **Commercial Place** Measured as the Adjusted **Maximum** Sound Pressure Level $L_{Amax\ adj,\ T}$*	**Period**
Background noise level plus 10 (dBA)	7 am - 6 pm
Background noise level plus 10 (dBA)	6 pm - 10 pm
Background noise level plus 8 (dBA)	10 pm - 7 am

Schedule G: Waste Management

Condition number	**Condition**
G1-1	In carrying out the activity do not: (i) burn waste at or on the **authorised place**; nor (ii) allow waste to burn or be burnt at or on the **authorised place**; nor (iii) remove waste from the **authorised place** and burn such waste elsewhere.
G1-2	Keep and maintain permanent records for every load of regulated waste transported from the **authorised place**. Such records must be maintained for a period of not less than five years and must include the following information: (a) the date, quantity and type of waste removed; and (b) name of the waste transporter and/or disposal operator that removed the waste; (c) the intended treatment/disposal destination of the waste.
G1-3	Records of trade waste agreements must be made available for inspection on request.
G1-4	If regulated waste has been removed from the approved place and disposed of the regulated waste in a manner which is not authorised by this development approval or improper or unlawful, then the administering authority must be notified within 14 days of all relevant facts, matters and circumstances known concerning the disposal.
G1-5	Where waste is disposed of on the premises (other than as permitted by another schedule of this development approval), monitor and record: (a) the date, quantity and type of waste disposed; and (b) the location of disposal of the waste; and (c) the method of disposal of the waste.
G1-6	The removal of sludges from the sewage treatment plant must be carried out in a manner that minimises the risk of spillage or any other release of contaminants to the environment.
G1-7	Sludge from the sewage treatment plant must only be disposed of to a premises authorised under the *Environment Protection Act 1994* to receive such waste.
G1-8	All chemical held on site must be stored in bunded **compounds**.
G1-9	All spillage control **compounds** for chemical storage must be constructed and maintained so as to be impervious and not liable to degradation to allow retention and recovery of all the materials being stored within the **compound**.

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<table>
<tr><td>G1-10</td><td>Notwithstanding Condition G1-9, by 31 July 1997, floors forming part of the spillage control compound for chemical storage and handling must be impervious and not liable to degradation.</td></tr>
<tr><td colspan="2">Schedule H: Monitoring and Reporting</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>H1-1</td><td>All complaints received relating to operations at the authorised place of the activity must be recorded with the following details:
i. time, date and nature of complaint;
ii. type of communication (telephone, letter, personal etc.);
iii. name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);
iv. response and investigation undertaken as a result of the complaint;
v. name of person responsible for investigating complaint; and
vi. action taken as a result of the complaint investigation and signature of responsible person.</td></tr>
<tr><td>H1-2</td><td>Make determinations and keep records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Schedule H Table 1- 4.

Schedule H Table 1- 4
<table><tr><th>Quality Characteristic Determination</th><th>Monitoring Points</th><th>Frequency</th></tr><tr><td>5-day Biochemical Oxygen Demand</td><td>Prior to chlorination</td><td>Monthly</td></tr><tr><td>Suspended Solids</td><td>Prior to chlorination</td><td>monthly</td></tr><tr><td>pH</td><td>Prior to chlorination</td><td>daily</td></tr><tr><td>Dissolved Oxygen</td><td>At the effluent collection well</td><td>daily</td></tr><tr><td>Free Residual Chlorine</td><td>Chlorine Contact Tank Outlet</td><td>daily</td></tr><tr><td>Faecal Coliforms (Organisms/100 ml)</td><td>Chlorine Contact Tank Outlet</td><td>monthly</td></tr></table></td></tr>
<tr><td>H1-3</td><td>All samples taken for the purposes of determining the quality of contaminants released to waters shall be grab samples.</td></tr>
<tr><td>H1-4</td><td>All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the current edition of the administering authority's Monitoring and Sampling Manual.</td></tr>
<tr><td>H1-5</td><td>All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.</td></tr>
<tr><td>H1-6</td><td>The daily quantity of contaminants released must be determined by a method acceptable to the administering authority.</td></tr>
<tr><td>H1-7</td><td>Records must be kept of the results of all determinations of the daily quantity of contaminants released to waters.</td></tr>
<tr><td>H1-8</td><td>Ensure that the results of all monitoring performed in accordance with this development approval for the period covered by the return are submitted with the Annual Return.</td></tr>
<tr><td>H1-9</td><td>As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this development approval, notify the administering authority of the release by telephone or facsimile.</td></tr>
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H1-10	The notification of emergencies or incidents as required by condition number H1-9 must include but not be limited to the following: i. the location of the emergency or incident; ii. the number of the development approval; iii. the name and telephone number of the designated contact person; iv. the time of the release; v. the time the release became apparent; vi. the suspected cause of the release; vii. the environmental harm and or environmental nuisance caused, threatened, or suspected to be caused by the release; and viii. actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
H1-11	Not more than 14 days following the initial notification of an emergency or incident, provide written advice of the information supplied in accordance with condition number H1-10 in addition to: i. proposed actions to prevent a recurrence of the emergency or incident; ii. outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance, and iii. the results of any environmental monitoring performed.
H1-12	By a date twelve months from the date of issue of this development approval develop and implement an Environmental Impact Monitoring Program which details effective and appropriate monitoring of the impact of the environmentally activity on the environment.
H1-13	The Environmental Impact Monitoring Program must include sufficient spatial and temporal controls to enable statistically valid conclusions to be made concerning any impacts.
H1-14	The Environmental Impact Monitoring Program must be designed so as to have at least an eighty percent chance of detecting an environmental impact should one occur.
H1-15	The proposal for the Environmental Impact Monitoring Program must include but not be limited to the following: (a) description of potential effects on the environment including flora and fauna communities (including introduction of species), ambient environmental quality (water, including groundwater and air), effects of increases in, cessation or relocation of discharges (including introduction of trade waste policies which may alter influent and effluent characteristics); (b) relationship between release/activity and environmental quality indicators including biodiversity, with predictions and intended measurements of impacts from the release/activity; (c) methodologies, procedures, statistical analyses proposed.
H1-16	A copy of the Environmental Impact Monitoring Program must be provided to the administering authority within 30 days of its completion.
H1-17	A copy of the Environmental Impact Monitoring Program must be kept on the **authorised place.**
H1-18	Records must be kept of the results of all monitoring carried out under the Environmental Impact Monitoring Program for a period of at least 5 years.
H1-19	Submit a report on the progress and results of the Environmental Impact Monitoring Program to the administering authority at least with each annual return.
H1-20	Notify the administering authority in writing of any monitoring result which indicates exceedance of any licence limit within 28 days of completion of analysis
H1-21	The written notification required by condition number H1-20 above must include the full analysis results.
H1-22	Notify the administering authority of details of the investigation or corrective actions taken within 28 days of completing the investigation and implementing corrective actions.

This section of the development approval type remains in force until 16 July 2011. **64-(3) Water treatment >10ML raw water day**	
Schedule A: General	
Condition number	**Condition**
A2-1	Where waste is discharged to any part of the environment other than at the **authorised place**, permission or approval of the legal entity authorised to give such permission to discharge the waste onto that property, must be sought prior to the discharge.
A2-2	A copy of this development approval must be kept at the **authorised place**.
A2-3	A copy of the Site Management Plan, prepared for the **authorised place** under the Integrated Environmental Management System must be kept at the **authorised place**.
A2-4	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this development approval.
Schedule C: Water	
Condition number	**Condition**
C2-1	Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the **authorised place** to any waters at any location. The discharge of liquid sludge from the reactivators to be only discharged to any one of the four sludge lagoon units. The backwash material from the filter units to be only discharged to the backwash lagoon.
Schedule D: Stormwater Management	
Condition number	**Condition**
D2-1	Effectively and appropriately manage the carrying out of the environmentally relevant activity so as to prevent, as far as is practicable, any contamination of stormwater and any release of contaminated stormwater.
D2-2	All ponds used for the storage or treatment of contaminants or wastes must be installed and maintained to prevent any discharge through the bed or banks of the pond from causing environmental harm or environmental nuisance in any waters (including groundwaters).
D2-3	All ponds used for the storage or treatment of contaminants or wastes must be constructed and maintained so that a **freeboard** of not less than 200 mm is maintained at all times.
D2-4	All ponds used for the storage or treatment of contaminants or wastes must be constructed and maintained to ensure the stability of the ponds construction.
D2-5	Suitable banks and or diversion drains must be installed and maintained to exclude stormwater runoff from any ponds or other structures used for the storage or treatment of contaminants or wastes.

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<table>
<tr><th colspan="2">Schedule F: Noise</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>F2-1</td><td>In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 2-1 of the Noise Schedule until the circumstances which gave rise to the complaint are resolved.
Schedule F - Table 2-1
<table>
<tr><th>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$</th><th>Period</th></tr>
<tr><td>background noise level plus 5 (dBA)</td><td>7 am - 6 pm</td></tr>
<tr><td>background noise level plus 5 (dBA)</td><td>6 pm - 10 pm</td></tr>
<tr><td>background noise level plus 3 (dBA)</td><td>10 pm - 7 am</td></tr>
<tr><th>Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$</th><th>Period</th></tr>
<tr><td>background noise level plus 10 (dBA)</td><td>7 am - 6 pm</td></tr>
<tr><td>background noise level plus 10 (dBA)</td><td>6 pm - 10 pm</td></tr>
<tr><td>background noise level plus 8 (dBA)</td><td>10 pm - 7 am</td></tr>
</table></td></tr>
<tr><th colspan="2">Schedule G: Waste Management</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>G2-1</td><td>In carrying out the activity do not:
i. allow waste to burn or be burned at or on the authorised place; nor
ii. remove waste from the authorised place and burn such waste elsewhere.</td></tr>
<tr><td>G2-2</td><td>Where regulated waste is removed from the authorised place (other than by a release as permitted under another schedule of this development approval), monitor and keep records of the following:
(a) the date, quantity and type of waste removed; and
(b) name of the waste transporter and/or disposal operator that removed the waste; and
(c) the intended treatment/disposal destination of the waste.</td></tr>
<tr><td>G2-3</td><td>If regulated waste has been removed from the approved place and disposed of the regulated waste in a manner which is not authorised by this development approval or improper or unlawful, then the administering authority must be notified within 14 days of all relevant facts, matters and circumstances known concerning the disposal.</td></tr>
<tr><td>G2-4</td><td>Where waste is disposed of on the premises (other than as permitted by another schedule of this development approval), monitor and record:
(a) the date, quantity and type of waste disposed; and
(b) the location of disposal of the waste; and
(c) the method of disposal of the waste.</td></tr>
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<table>
<tr><td>G2-5</td><td>Store the following dangerous goods (chemicals) in a separate bunded storage shed:
<table>
<tr><td>Ammonia</td><td>herbicides</td></tr>
<tr><td>Turpentine</td><td>assorted paint</td></tr>
<tr><td>2 Stroke motor fuel</td><td></td></tr>
<tr><td>2 stroke unleaded motor fuel</td><td></td></tr>
</table></td></tr>
<tr><td>G2-6</td><td>The following chemicals must be stored in a separate bunded storage shed:
<table>
<tr><td>Hydrated Lime</td><td>Carbon</td></tr>
<tr><td>Alum Sulphate</td><td></td></tr>
</table></td></tr>
<tr><td>G2-7</td><td>All chemical storage sheds must be bunded within 3 months of the issue of this development approval.</td></tr>
<tr><td>G2-8</td><td>Liquid chlorine is to be stored in chlorine shed compound.</td></tr>
<tr><td>G2-9</td><td>Flocculent tank located beside the Chemical Storage Shed is to be bunded within 3 months of the issue of this development approval.</td></tr>
<tr><td>G2-10</td><td>All existing chemical tank storages must be within a spillage control compound sufficient to contain at least 100% of the largest storage tank.</td></tr>
<tr><td>G2-11</td><td>All chemical tank storages constructed after 1 July 1997 must be within a spillage control compound sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the compound.</td></tr>
<tr><td>G2-12</td><td>All spillage control compounds must be constructed and maintained so as to be sufficiently impervious to allow retention and recovery of any materials being stored within the compound.</td></tr>
<tr><td>G2-13</td><td>All chemical package storage and handling areas must be within spillage control compounds sufficient to contain at least 100% of the capacity of the largest package plus 25% of the storage capacity up to 10,000L together with 10% of the storage capacity beyond 10,000L</td></tr>
<tr><td>G2-14</td><td>Notwithstanding Condition G2-13 by 31 July 1997, floors forming part of the spillage control compounds for the chemical package storage and handling areas must be impervious and not liable to degradation.</td></tr>
<tr><td colspan="2">Schedule H: Monitoring and Reporting</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>H2-1</td><td>All complaints received relating to releases of contaminants from operations at the authorised place must be recorded and kept with the following details:
(a) time, date and nature of complaint;
(b) type of communication (telephone, letter, personal etc.);
(c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);
(d) response and investigation undertaken as a result of the complaint;
(e) name of person responsible for investigating complaint; and
(f) action taken as a result of the complaint investigation and signature of responsible person.</td></tr>
<tr><td>H2-2</td><td>As soon as practicable after becoming aware of an emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this development approval, notify the administering authority of the release by telephone or facsimile.</td></tr>
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H2-3	The notification of emergencies or incidents as required by condition number H2-2 must include but not limited to the following: i. the location of emergency or incident; ii. the number of development approval; iii. the name and telephone number of the designated contact person; iv. the time of the release; v. the time the holder of the development approval became aware of the release; vi. the suspected cause of the release; vii. the environmental harm and or environmental nuisance caused, threatened, or suspected to be caused by the release; and viii. actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
H2-4	Not more than 14 days following the initial notification of an emergency or incident, provide written advice of the information supplied in accordance with condition number H2-3 in addition to: (i) proposed actions to prevent a recurrence or incident; (ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance, and (iii) the results of any environmental monitoring performed.

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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.

For the purposes of this development approval the following definitions apply:

authorised place means The Charters Towers Sewage Treatment Plant on Lot 13 Plan 499 County of Davenport Title Reference 227 Parish of Charters Towers located at Flinders Highway, Charters Towers

background noise level means either:

$L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or

$L_{abg,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

bund means an embankment or wall which may form part or all of the perimeter of a compound.

commercial place means a place used as an office or for business or commercial purposes.

compound means an area bounded by natural grounds contours or by a bund, sufficiently impervious to retain spillage or leakage pending recovery.

daily refers to a normal working day.

dry weather flow 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 days following cumulative rainfall of 100mm over the three preceding days.

freeboard means the vertical distance between the water surface and any overflow point.

grab sample means one sample collected at any point in time.

long term 80 percentile means that not more than five (5) of the measured values of the quality characteristic are to exceed the stated release limit for any twenty five (25) consecutive samples where:

i. the consecutive samples are taken over a one year period;
ii. the consecutive samples are taken at approximately equal periods; and
iii. the time interval between the taking of each consecutive sample is not less than thirteen days.

maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

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.

minimum means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

mg/L means milligrams per litre.

noise sensitive place means -

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(a) a dwelling, 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; or
(f) a park or gardens.

range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated

$L_{Amax\ adj,\ T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

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

i. the consecutive samples are taken over a ten week period;
ii. the consecutive samples are taken at approximately equal periods; and
iii. the time interval between the taking of each consecutive sample is not less than thirteen days.

END OF PERMIT

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