

eco access

issuing licences and permits

Item Id 1283741

FOLIO P/S TSV 2421

NOR/ 045191

SV2011 / 2147

Item Id 2803477

101 / 0008441

pp 2803513

Registration certificate

Environmental Protection Act 1994

Certificate of Registration

No: ENRE00854708

This registration certificate is issued by the administering authority and is a replacement document for the original approval issued on: 06-JAN-2010.

The anniversary day for the purposes of the Annual Return remains: 20-NOV.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activities listed below at the following places; subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-

Burdekin Shire Council
145 Young Street
AYR QLD 4807

Development Approval Number:

SPDE01983911

Place:-

Lot 384 Plan SB738, Lot 385 Plan SB599, Lot 405 Plan SB678.

Located at:-

Bojack Road, HOME HILL QLD 4806.

Registered Activity: -

ERA 63 Sewage treatment Threshold 2(c) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 1500 to 4000EP

Development Approval Number:

SPDE01983811

Place:-

Lot 140 Plan GL1243.



Located at:-

Bruce Hwy, AYR QLD 4807.

Registered Activity:-

ERA 63 Sewage treatment Threshold 2(e) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 10000 to 50000EP



Chris Buckingham

Delegate

Administering authority

Environmental Protection Act 1994

17-JUNE-2011

Item Id 1283656
NOR/ 045191

FOLIO P/S TSV 242
TSV2011 1 2146
Queensland
Government

Item Id 3297485 + 3297495(P)
101 / 0008441

Department of
**Environment and Resource
Management**

File/Ref TSV242

17 June 2011

Chief Executive Officer
145 Young Street
AYR Qld 4807

Attn Gary Pappalardo

Dear Mr Pappalardo

I refer to recent discussions concerning the re-issuing of the approvals for the Ayr and Home Hill sewage treatment plants. Changes have been made to the approvals in two ways; firstly the issuing of two replacement documents in place of the single approval that contained both sites and secondly the redrafting of conditions to make them more contemporary and to clarify conditions such as the definition of the release points and the receiving environmental monitoring program.

Attached are two notices issued under section 621(4) of the *Environmental protection Act 1994* and an amended registration certificate for the two activities.

Should you have any further enquiries, please do not hesitate to contact me of the department on telephone 0747225362.

Yours sincerely



Chris Buckingham
A/Manager,
Environmental Services – North Region

Notice – Decision to issue replacement documents

Section 621(4) *Environmental Protection Act 1994*

Development Approval number: SPDE01983811

Relevant Laws and Policies: *Environmental Protection Act 1994* and subordinate legislation

Under the provisions of the *Environmental Protection Act 1994* this development approval is issued:

To:

Burdekin Shire Council

Address:

145 Young Street
AYR QLD 4807

In respect of the following environmentally relevant activity:

63 (2)(e) - operating a sewage treatment works, other than no-release works with a total daily peak design capacity of more than 10,000 to 50,000EP.

Being carried out at the following approved place described as:

Lot 140 on GL1243, County of Gladstone, Parish of Antill

Bruce Highway, AYR

This development approval replaces the environmental authority licence number NR275.

Appeal

This approval is issued pursuant to section 621 (4) of the *Environmental Protection Act 1994*. The rights of review and appeal are attached to this notice.

This approval and registration certificate takes affect 14 days after the decision date or if there is an appeal from the date after the appeal is finally decided or is otherwise ended.


Signed

17 June 2011

Date

Chris Buckingham
Delegate of Administering Authority
Environmental Protection Act 1994

SCHEDULE OF CONDITIONS

The aforementioned description of the ERA for which this approval is issued is simply a restatement of the activity as prescribed in the legislation at the time of issuing this approval. Where there is any conflict between the above description of the ERA for which this approval is issued and the conditions as specified in this approval as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

Conditions for: ERA 63 Sewage treatment Threshold 2(e) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 10,000 to 50,000EP

Agency Interest: General

G1 Prevent and/or minimise likelihood of environmental harm.

In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.

G2 Maintenance Of Measures, Plant and Equipment.

The operator of an ERA to which this approval relates must:

- (a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and
- (b) maintain such measures, plant and equipment in a proper and efficient condition; and
- (c) operate such measures, plant and equipment in a proper and efficient manner.

G3 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 for by this approval.

G4 Site Based Management Plan.

From commencement of an ERA to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out.

The SBMP must address the following matters:

- (a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals.
- (b) Identification of environmental issues and potential impacts.
- (c) Control measures for routine operations to minimise likelihood of environmental harm.
- (d) Contingency plans and emergency procedures for non-routine situations.
- (e) Organisational structure and responsibility.
- (f) Effective communication.
- (g) Monitoring of contaminant releases into the environment and an environmental assessment of the releases.
- (h) Conducting environmental impact assessments.
- (i) Staff training.
- (j) Record keeping.
- (k) Periodic review of environmental performance and continual improvement.

G5 The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.

G6 Records.

Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.

G7 All records required by this approval must be kept for 5 years.

G8 Annual Report

An annual monitoring report must be prepared each year and presented to the administering authority. This report shall include but not be limited to:

- (a) a summary of the previous twelve (12) months monitoring results under condition WA2, in graphical form showing relevant limits, a comparison of the previous twelve (12) months monitoring results to both this approvals limits and to relevant prior results;
- (b) an evaluation/explanation of the data from any monitoring programs;
- (c) a summary of any record of quantities of releases required to be kept under this approval;
- (d) a summary of the record of any equipment failures or events recorded for any site under this approval;
- (e) an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs;

G9 Notification.

Telephone the DERM's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

G10 Information About Spills.

A written notice detailing the following information must be provided to the DERM within 14 days of any advice provided in accordance with condition G9:

- (a) The name of the operator, including their approval / registration number;
- (b) The name and telephone number of a designated contact person;
- (c) Quantity and substance released;
- (d) Vehicle and registration details;
- (e) Person/s involved (driver and any others);
- (f) The location and time of the release;
- (g) The suspected cause of the release;
- (h) A description of the effects of the release;
- (i) The results of any sampling performed in relation to the release,
- (j) Actions taken to mitigate any environmental harm caused by the release; and
- (k) Proposed actions to prevent a recurrence of the release.

G11 Monitoring.

A competent person(s) must conduct any monitoring required by this approval.

G12 Equipment Calibration.

All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.

G13 Trained / Experienced Operator(s).

The daily operation of the waste water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.

Agency Interest: Air

A1 Dust Nuisance.

The release of dust and/or particulate matter resulting from the ERA must not cause an

environmental nuisance at any nuisance sensitive or commercial place.

- A2 When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include:
- (a) for a complaint alleging dust nuisance, dust deposition; and
 - (b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere over a 24hr averaging time.

A3 Nuisance.

The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.

- A4 When requested by the administering authority, monitoring must be undertaken to investigate any complaint of environmental nuisance caused by a release to the atmosphere at the site, and the results thereof notified to the administering authority within 14 days following completion of monitoring.

Agency Interest: Land

L1 Preventing Contaminant Release To Land.

Contaminants must not be released to land.

- L2 Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.
NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.

Agency Interest: Noise

N1 Noise Nuisance.

Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place

N2 Noise Monitoring.

When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:

- LA 10, adj, 10 mins
- LA 1, adj, 10 mins
- 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.

- N3 The method of measurement and reporting of noise levels must comply with the latest edition of the Department of Environment and Resource Management's Noise Measurement Manual.

Agency Interest: Waste

- W1 Waste must not be released to the environment, stored, transferred or disposed contrary to any condition of this development approval.

- W2 Screenings, grit and sewage and wastewater treatment plant sludges generated by the sewage

treatment process must not be stored on site for any period of time longer than that necessary to dewater the screenings, grit and sludge and prepare it for transport to and disposal at an appropriately authorised facility that can lawfully accept such waste or to a facility that can lawfully and appropriately reuse, recycle or reprocess such waste (in accordance with a relevant resource approval).

W3 Screenings, grit, sewage and wastewater treatment plant sludges generated must be stored, managed and utilised such as not to cause environmental harm.

W4 Waste Records.

A record of all regulated waste (excluding trackable) must be kept detailing the following information:

- a) date of pickup of waste;
- b) description of waste;
- c) quantity of waste;
- d) origin of the waste; and
- e) destination of the waste.

Note: Trackable wastes have similar recording requirements to this condition. Therefore, records of documents maintained in compliance with a waste tracking system established under the above Regulation or any other law for recording details for the transport of regulated waste satisfy this condition.

W5 Sewage sludge generated on site must be monitored at least annually to obtain the following information:

- (a) The estimated quantity and nature of each sludge produced (annual); and
- (b) The current method(s) of pre-treatment or disposal.

Agency Interest: Water

WA1 The only contaminant permitted to be released to surface waters is treated sewage effluent in compliance with the release limits listed in Table 1 - Contaminant release limits to water and monitoring requirements.

Table 1 - Contaminant release limits to water and monitoring requirements.

Quality Characteristic	Minimum	mean	median	Maximum	Monitoring Point	Monitoring frequency
BOD5 (mg/L)	-	20		45	W1 – inlet to chlorine contact tank	Fortnightly
Suspended Solids (mg/L)	-	30		60	W1 – inlet to chlorine contact tank	Fortnightly
Dissolved Oxygen (mg/L)	2				W1 – inlet to chlorine contact tank	Daily
pH	6.5			8.5	W1 – inlet to chlorine contact tank	Daily
Free residual chlorine (mg/l)				0.7	W2 – outlet from chlorine contact tank	Fortnightly
Faecal coliforms (CFU/100ml)			1000	4000 #	W2 – outlet from chlorine contact tank	Monthly

Median – based on a minimum of five samples collected at not less than fortnightly intervals

Mean - based on a minimum of five samples collected at not less than monthly interval.

- based on a minimum of five samples collected at not less than monthly intervals with four out of five samples containing less than the maximum specified.

- WA2 Monitoring must be undertaken on samples collected from the inlet to the chlorine contact tank at the location specified in Table 1 and records kept of contaminant releases to waters for the quality characteristics and not less frequently than specified in Table 1.

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 Resource Management Water Quality Sampling Manual.

- WA3 The total quantity of contaminants released to waters via the release points listed in Table 2 - Maximum permitted quantity of release, must not exceed the respective quantities stated in Table 2 - Maximum permitted quantity of release for each release point in on any dry weather day or on any one day.

Table 2 - Maximum permitted quantity of release

Release Point	Maximum release on any dry weather day	Maximum release on any one day
W3	3.5 ML/day	10.5 ML/day

- WA4 The daily volume of contaminants released to waters must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations and estimates.

- WA 5 Contaminants must only be released to surface waters in compliance with the release limits listed in Table 1 - *Contaminant release limits to waters and monitoring requirements* and at the following discharge location.

Release point	Easting	Northing	Description
W 3	19.554383	147.384878	Outlet into cane drain

- WA6 The release of contaminants to waters at W3 must not:
- (a) produce any slick, discoloration of ambient waters or visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter; nor
 - (b) have any other properties nor contain any other contaminants in concentrations that may cause environmental harm.

- WA7 Contaminant And Sewage Pump Stations

Contaminant pumping stations must be fitted with stand-by pumps and pump-failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power.

- WA8 Pump Stations permitted to release contaminants, namely screened raw sewage, to any waters as a result of a pump station failure are those listed below at the corresponding overflow locations.

Ayr Sewerage Reticulation Scheme

Pump Station Number/Description	Overflow Location
PS 1 Conley and Cox Sts, Ayr	Local Stormwater Drain
PS 2 cnr Porter and Mackersie Sts, Ayr	Local Stormwater Drain
PS 4 Grey and Irving Sts, Ayr	Local Stormwater Drain
PS 5 cnr Parker and Adelaide Sts, Ayr	Local Stormwater Drain
PS 6 Wickham and Church Sts, Ayr	Local Stormwater Drain
PS 8 Cnr Mackenzie and Lynch Sts, Ayr	Local Stormwater Drain

era 17/06/16

PS 11 Norham Rd and Alice St, Ayr	Plantation Creek
PS 12 Edwards St, Ayr	Plantation Creek
PS 13 Albert Cres, Ayr	Plantation Creek
PS 14 cnr Liechardt and Kennedy Sts, Ayr	Local Stormwater Drain
PS 15 Old Clare Rd and Mirrigan St, Ayr	Local Stormwater Drain
PS 17 cnr Klondyke and Burke Sts, Ayr	Local Stormwater Drain
PS 19 Clayton and Mackersie Sts, Ayr	Local Stormwater Drain
PS 20 Bowen and Ayr Rds, Ayr	Local Stormwater Drain
PS 21 Chippendale and Craig Sts, Ayr	Local Stormwater Drain
PS 22 cnr Ross and Clayton Sts, Ayr	Local Stormwater Drain
PS 25 Edwards St,	Local Stormwater Drain
PS 26 Craig St, Ayr	Local Stormwater Drain
PS 28 McCathie St, Ayr	Local Stormwater Drain
PS 29 Harley Dr, Ayr	Local Stormwater Drain
PS 1 Munro and Sexton Sts, Brandon	Local Stormwater Drain
PS 2 Neville and Tool Sts, Brandon	Local Stormwater Drain

- WA8 An automatic telemetry system must be provided which is capable of continuing to operate in the event of a pump station power failure and which will advise the responsible person by telephone or other acceptable means that such a power failure has occurred.
- WA9 Prior to the installation of any new pump station the holder of this environmental authority must demonstrate 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.
- WA10 All overflows and overflow control structures for new pump stations must be located away from environmentally sensitive locations including waterways and natural wetlands.
- WA11 Where practicable the holder of this environmental authority must install basins to isolate and contain pump station overflows.
- WA12 A Receiving Environment Monitoring Program (REMP) must be developed and implemented to monitor and record the effects of the release of contaminants on the receiving environment. A copy of the REMP must be provided to the administering authority prior to its implementation and due consideration given to any comments made on the REMP by the administering authority.
- WA13 The REMP must address (but not necessarily be limited to) the following:
- (a) Description of potentially affected receiving waters including background water quality characteristics; and
 - (b) Water quality monitoring upstream beyond the likely influence of the discharge and downstream within Browns Lagoon during both wet season and dry season conditions; and
 - (c) Monitoring of physio-chemical parameters including Biochemical Oxygen Demand, suspended solids, dissolved oxygen and pH; and
 - (d) Specify sampling and analysis methods and quality assurance and control.
- WA14 On a five (5) yearly basis, provide a summary report to the administering authority, covering:
- (a) The preceding five (5) years of data collected in the Receiving Environment Monitoring Program, including interpretation of what results indicate regarding the environmental condition of the receiving environment.
 - (b) Any advances in technology for sewage treatment, including details of potential application to the STP, likely improvement in effluent quality and the cost effectiveness of implementing the technology.

CB 17/06/11

DEFINITIONS

Words and phrases used throughout this permit¹ are defined below. Where a definition for a term used in this permit¹ is sought and the term is not defined within this permit¹ the definitions provided in the relevant legislation shall be used.

"administering authority" means the Department of Environment and Resource Management or its successor.

"annual return" means the return required by the annual notice (under section 316 of the *Environment Protection Act 1994*) for the section 73F registration certificate that applies to the development approval.

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.

"authorised place" means the place authorised under this development approval for the carrying out of the specified environmentally relevant activities.

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

"dwelling" means any of the following structures or vehicles that is principally used as a residence –

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

"Department of Environment and Resource Management" means the department or agency (whatever called) administering the *Coastal Protection and Management Act 1995* or the *Environmental Protection Act 1994*.

"erosion prone area" means an area declared to be an erosion prone area under section 70(1) of the *Coastal Protection and Management Act 1995*.

"high water mark" means the ordinary high water mark at spring tides.

"infectious waste" means waste containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans.

"intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration –

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.
- In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 2 – Application to Specific Situations.

" $L_{A 10, \text{adj}, 10 \text{ mins}}$ " 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.

" $L_{A 1, \text{adj}, 10 \text{ mins}}$ " 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.

" $L_{A, \text{max adj}, T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

"land" in the "land schedule" of this document means land excluding waters and the atmosphere.

"mg/L" means milligrams per litre.

"noxious" means harmful or injurious to health or physical well being.

"NTU" means nephelometric turbidity units.

"nuisance sensitive place" includes –

- 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

- 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.

"offensive" means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

"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.

"regulated waste" means non-domestic waste mentioned in Schedule 7 of the *Environmental Protection Regulation 1998* (whether or not it has been treated or immobilised), and includes –

- for an element – any chemical compound containing the element; and
- anything that has contained the waste.

"site" means land or tidal waters on or in which it is proposed to carry out the development approved under this development approval.

"tidal water" means the sea and any part of a harbour or watercourse ordinarily within the ebb and flow of the tide at spring tides.

"watercourse" means a river, creek or stream in which water flows permanently or intermittently–

- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

"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.

"works" or "operation" means the development approved under this development approval.

"you" means the holder of this development approval or owner / occupier of the land which is the subject of this development approval.

"50th percentile – short term" 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 where:

- the consecutive samples are taken over a five (5) week period;
- the consecutive samples are taken at approximately equal periods; and
- the time interval between the taking of each consecutive sample is not less than three (3) days or greater than eleven (11) days.

"50th percentile – long term" means not more than twenty-six (26) of the measured values of the quality characteristic are to exceed the stated release limit for any fifty-two (52) consecutive samples for a release/monitoring point at any time where:

- the consecutive samples are taken over a 1 year period;
- the consecutive samples are taken at approximately equal periods; and
- the time interval between the taking of each consecutive sample is not less than three (3) days or greater than eleven (11) days.

END OF DEVELOPMENT APPROVAL

Item Id. 32975043 32975090

Item Id.

1283629

101 10008441

NOR

045191

Notice – Decision to issue replacement documents

RELIO

P/S TSV 242

Section 621(4) *Environmental Protection Act 1994*

TSV 2011

1 2146

Development Approval number: SPDE01983911

Relevant Laws and Policies: *Environmental Protection Act 1994* and subordinate legislation

Under the provisions of the *Environmental Protection Act 1994* this development approval is issued:

To:

Burdekin Shire Council

Address:

145 Young Street
AYR QLD 4807

In respect of the following environmentally relevant activity:

63 (2)(c) - operating a sewage treatment works, other than no-release works with a total daily peak design capacity of more than 1,500 to 4,000EP.

Being carried out at the following approved place described as:

Lot 385 on SB599, County of Salisbury, Parish of Inkerman
Lot 384 on SB738, County of Salisbury, Parish of Inkerman
Lot 405 on SB678, County of Salisbury, Parish of Inkerman

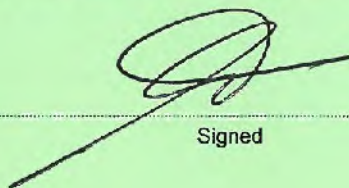
Bojack Road, HOME HILL

This development approval replaces the environmental authority licence number NR275.

Appeal

This approval is issued pursuant to section 621 (4) of the *Environmental Protection Act 1994*. The rights of review and appeal are attached to this notice.

This approval and registration certificate takes affect 14 days after the decision date or if there is an appeal from the date after the appeal is finally decided or is otherwise ended.



Signed

17 June 2011

Date

Chris Buckingham
Delegate of Administering Authority
Environmental Protection Act 1994

SCHEDULE OF CONDITIONS

The aforementioned description of the ERA for which this approval is issued is simply a restatement of the activity as prescribed in the legislation at the time of issuing this approval. Where there is any conflict between the above description of the ERA for which this approval is issued and the conditions as specified in this approval as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

Conditions for: ERA 63 Sewage treatment Threshold 2(c) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 1,500 to 4,000EP

Agency Interest: General

G1 Prevent and/or minimise likelihood of environmental harm.

In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.

G2 Maintenance Of Measures, Plant and Equipment.

The operator of an ERA to which this approval relates must:

- (a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and
- (b) maintain such measures, plant and equipment in a proper and efficient condition; and
- (c) operate such measures, plant and equipment in a proper and efficient manner.

G3 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 for by this approval.

G4 Site Based Management Plan.

From commencement of an ERA to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out.

The SBMP must address the following matters:

- (a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals.
- (b) Identification of environmental issues and potential impacts.
- (c) Control measures for routine operations to minimise likelihood of environmental harm.
- (d) Contingency plans and emergency procedures for non-routine situations.
- (e) Organisational structure and responsibility.
- (f) Effective communication.
- (g) Monitoring of contaminant releases into the environment and an environmental assessment of the releases.
- (h) Conducting environmental impact assessments.
- (i) Staff training.
- (j) Record keeping.
- (k) Periodic review of environmental performance and continual improvement.

G5 The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.

G6 Records.

Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.

G7 All records required by this approval must be kept for 5 years.

G8 Annual Report

An annual monitoring report must be prepared each year and presented to the administering authority. This report shall include but not be limited to:

- (a) a summary of the previous twelve (12) months monitoring results under condition WA2, in graphical form showing relevant limits, a comparison of the previous twelve (12) months monitoring results to both this approvals limits and to relevant prior results;
- (b) an evaluation/explanation of the data from any monitoring programs;
- (c) a summary of any record of quantities of releases required to be kept under this approval;
- (d) a summary of the record of any equipment failures or events recorded for any site under this approval;
- (e) an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs;

G9 Notification.

Telephone the DERM's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

G10 Information About Spills.

A written notice detailing the following information must be provided to the DERM within 14 days of any advice provided in accordance with condition G9:

- (a) The name of the operator, including their approval / registration number;
- (b) The name and telephone number of a designated contact person;
- (c) Quantity and substance released;
- (d) Vehicle and registration details;
- (e) Person/s involved (driver and any others);
- (f) The location and time of the release;
- (g) The suspected cause of the release;
- (h) A description of the effects of the release;
- (i) The results of any sampling performed in relation to the release;
- (j) Actions taken to mitigate any environmental harm caused by the release; and
- (k) Proposed actions to prevent a recurrence of the release.

G11 Monitoring.

A competent person(s) must conduct any monitoring required by this approval.

G12 Equipment Calibration.

All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.

G13 Trained / Experienced Operator(s).

The daily operation of the waste water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.

Agency Interest: Air

A1 Dust Nuisance.

The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.

A2 When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include:

- (a) for a complaint alleging dust nuisance, dust deposition; and
- (b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere over a 24hr averaging time.

A3 Nuisance.

The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.

A4 When requested by the administering authority, monitoring must be undertaken to investigate any complaint of environmental nuisance caused by a release to the atmosphere at the site, and the results thereof notified to the administering authority within 14 days following completion of monitoring.

Agency Interest: Land

L1 Preventing Contaminant Release To Land.

Contaminants must not be released to land.

L2 Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.
NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.

Agency Interest: Noise

N1 Noise Nuisance.

Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.

N2 Noise Monitoring.

When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:

- LA 10, adj, 10 mins
- LA 1, adj, 10 mins
- 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.

N3 The method of measurement and reporting of noise levels must comply with the latest edition of the Department of Environment and Resource Management's Noise Measurement Manual.

Agency Interest: Waste

- W1 Waste must not be released to the environment, stored, transferred or disposed contrary to any condition of this development approval.
- W2 Screenings, grit and sewage and wastewater treatment plant sludges generated by the sewage treatment process must not be stored on site for any period of time longer than that necessary to dewater the screenings, grit and sludge and prepare it for transport to and disposal at an appropriately authorised facility that can lawfully accept such waste or to a facility that can lawfully and appropriately reuse, recycle or reprocess such waste (in accordance with a relevant resource approval).
- W3 Screenings, grit, sewage and wastewater treatment plant sludges generated must be stored, managed and utilised such as not to cause environmental harm.
- W4 Waste Records.
- A record of all regulated waste (excluding trackable) must be kept detailing the following information:
- date of pickup of waste;
 - description of waste;
 - quantity of waste;
 - origin of the waste; and
 - destination of the waste.
- Note: Trackable wastes have similar recording requirements to this condition. Therefore, records of documents maintained in compliance with a waste tracking system established under the above Regulation or any other law for recording details for the transport of regulated waste satisfy this condition.
- W5 Sewage sludge generated on site must be monitored at least annually to obtain the following information:
- The estimated quantity and nature of each sludge produced (annual); and
 - The current method(s) of pre-treatment or disposal.

Agency Interest: Water

- WA1 The only contaminant permitted to be released to surface waters is treated sewage effluent in compliance with the release limits listed in Table 1 - Contaminant release limits to water and monitoring requirements.

Table 1 - Contaminant release limits to water and monitoring requirements.

Quality Characteristic	Minimum	mean	median	Maximum	Monitoring Point	Monitoring frequency
BOD5 (mg/L)	-	20		45	W1 – inlet to chlorine contact tank	Fortnightly
Suspended Solids (mg/L)	-	30		60	W1 – inlet to chlorine contact tank	Fortnightly
Dissolved Oxygen (mg/L)	2				W1 – inlet to chlorine contact tank	Daily
pH	6.5			8.5	W1 – inlet to	Daily

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					chlorine contact tank	
Free residual chlorine (mg/l)				0.7	W2 – outlet from chlorine contact tank	Fortnightly
Faecal coliforms (CFU/100ml)			1000	4000 #	W2 – outlet from chlorine contact tank	Monthly

Median – based on a minimum of five samples collected at not less than fortnightly intervals

Mean - based on a minimum of five samples collected at not less than monthly interval.

- based on a minimum of five samples collected at not less than monthly intervals with four out of five samples containing less than the maximum specified.

- WA2 Monitoring must be undertaken on samples collected from the inlet to the chlorine contact tank at the location specified in Table 1 and records kept of contaminant releases to waters for the quality characteristics and not less frequently than specified in Table 1.

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 Resource Management Water Quality Sampling Manual.

- WA3 The total quantity of contaminants released to waters via the release points listed in Table 2 - Maximum permitted quantity of release, must not exceed the respective quantities stated in Table 2 - Maximum permitted quantity of release for each release point in on any dry weather day or on any one day.

Table 2 - Maximum permitted quantity of release

Release Point	Maximum release on any dry weather day	Maximum release on any one day
W3	1.2 ML/day	3.6 ML/day

- WA4 The daily volume of contaminants released to waters must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations and estimates.
- WA 5 Contaminants must only be released to surface waters in compliance with the release limits listed in Table 1 - *Contaminant release limits to waters and monitoring requirements* and at the following discharge location.

Release point	Easting	Northing	Description
W 3	19.690920	147.455149	Outlet into cane drain

- WA6 The release of contaminants to waters at W3 must not:
- (a) produce any slick, discoloration of ambient waters or visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter; nor
 - (b) have any other properties nor contain any other contaminants in concentrations that may cause environmental harm.

- WA7 Contaminant And Sewage Pump Stations

Contaminant pumping stations must be fitted with stand-by pumps and pump-failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power.

- WA8 Pump Stations permitted to release contaminants, namely screened raw sewage, to any waters as a result of a pump station failure are those listed below at the corresponding overflow locations.

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Home Hill Sewerage Reticulation Scheme

Pump Station Number/Description	Overflow Location
PS 1H cnr 4th St and 12th Ave, Home Hill	Ford's Gully to Burdekin River
PS 3H cnr 15th St and 14th Ave, Home Hill	Kidby's Gully to Burdekin River
PS 5H cnr 14th Ave 15th St, Home Hill	Kidby's Gully to Burdekin River
PS 7H cnr 6th Ave and Kirknie Rd, Home Hill	Drainage line to Kidby's Gully to Burdekin River
PS 8H Kidby Cres, Home Hill	Kidby's Gully to Burdekin River
PS 9H Watt Lane, Home Hill	Drainage line to Kidby's Gully to Burdekin River
PS 11H 4th St, Home Hill	Ford's Gully to Burdekin River
WA8	An automatic telemetry system must be provided which is capable of continuing to operate in the event of a pump station power failure and which will advise the responsible person by telephone or other acceptable means that such a power failure has occurred.
WA9	Prior to the installation of any new pump station the holder of this environmental authority must demonstrate 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.
WA10	All overflows and overflow control structures for new pump stations must be located away from environmentally sensitive locations including waterways and natural wetlands.
WA11	Where practicable the holder of this environmental authority must install basins to isolate and contain pump station overflows.
WA12	A Receiving Environment Monitoring Program (REMP) must be developed and implemented to monitor and record the effects of the release of contaminants on the receiving environment. A copy of the REMP must be provided to the administering authority prior to its implementation and due consideration given to any comments made on the REMP by the administering authority.
WA13	The REMP must address (but not necessarily be limited to) the following: (a) Description of potentially affected receiving waters including background water quality characteristics; and (b) Water quality monitoring upstream beyond the likely influence of the discharge and downstream during both wet season and dry season conditions; and (c) Monitoring of physio-chemical parameters including Biochemical Oxygen Demand, suspended solids, dissolved oxygen and pH; and (d) Specify sampling and analysis methods and quality assurance and control.
WA14	On a five (5) yearly basis, provide a summary report to the administering authority, covering: (a) The preceding five (5) years of data collected in the Receiving Environment Monitoring Program, including interpretation of what results indicate regarding the environmental condition of the receiving environment. (b) Any advances in technology for sewage treatment, including details of potential application to the STP, likely improvement in effluent quality and the cost effectiveness of implementing the technology.

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DEFINITIONS

Words and phrases used throughout this permit¹ are defined below. Where a definition for a term used in this permit¹ is sought and the term is not defined within this permit¹ the definitions provided in the relevant legislation shall be used.

"administering authority" means the Department of Environment and Resource Management or its successor.

"annual return" means the return required by the annual notice (under section 316 of the *Environment Protection Act 1994*) for the section 73F registration certificate that applies to the development approval.

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.

"authorised place" means the place authorised under this development approval for the carrying out of the specified environmentally relevant activities.

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

"dwelling" means any of the following structures or vehicles that is principally used as a residence –

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

"Department of Environment and Resource Management" means the department or agency (whatever called) administering the *Coastal Protection and Management Act 1995* or the *Environmental Protection Act 1994*.

"erosion prone area" means an area declared to be an erosion prone area under section 70(1) of the *Coastal Protection and Management Act 1995*.

"high water mark" means the ordinary high water mark at spring tides.

"infectious waste" means waste containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans.

"intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration –

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.
- In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 2 – Application to Specific Situations.

" $L_{A\ 10, \text{adj}, 10 \text{ mins}}$ " 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.

" $L_{A\ 1, \text{adj}, 10 \text{ mins}}$ " 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.

" $L_{A, \text{max adj}, T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

"land" in the "land schedule" of this document means land excluding waters and the atmosphere.

"mg/L" means milligrams per litre.

"noxious" means harmful or injurious to health or physical well being.

"NTU" means nephelometric turbidity units.

"nuisance sensitive place" includes –

- 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

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- 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
- 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.

"offensive" means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

"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.

"regulated waste" means non-domestic waste mentioned in Schedule 7 of the *Environmental Protection Regulation 1998* (whether or not it has been treated or immobilised), and includes –

- for an element - any chemical compound containing the element; and
- anything that has contained the waste.

"site" means land or tidal waters on or in which it is proposed to carry out the development approved under this development approval.

"tidal water" means the sea and any part of a harbour or watercourse ordinarily within the ebb and flow of the tide at spring tides.

"watercourse" means a river, creek or stream in which water flows permanently or intermittently-

- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

"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.

"works" or "operation" means the development approved under this development approval.

"you" means the holder of this development approval or owner / occupier of the land which is the subject of this development approval.

"50th percentile – short term" 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 where:

- the consecutive samples are taken over a five (5) week period;
- the consecutive samples are taken at approximately equal periods; and
- the time interval between the taking of each consecutive sample is not less than three (3) days or greater than eleven (11) days.

"50th percentile – long term" means not more than twenty-six (26) of the measured values of the quality characteristic are to exceed the stated release limit for any fifty-two (52) consecutive samples for a release/monitoring point at any time where:

- the consecutive samples are taken over a 1 year period;
- the consecutive samples are taken at approximately equal periods; and
- the time interval between the taking of each consecutive sample is not less than three (3) days or greater than eleven (11) days.

END OF DEVELOPMENT APPROVAL