Queensland Government

Department of
Environment and Heritage Protection

To: Charters Towers Regional Council
PO Box 189
CHARTERS TOWERS QLD 4820

Email: mlangburne@ctrc.qld.gov.au
CC: mail@charterstowers.qld.gov.au

Your reference: EPPR00197313
Our reference: 223494

Application details

I refer to the application that was received by the administering authority on 01-NOV-2016.

Land description: Waste Pentland NR0253 Lot 2 Plan GF838294; Waste Ravenswood NR0253 Lot 20 Plan GS35; Waste Greenvale NR0253 Lot 21 Plan SP185817; Stubley Street TOLL QLD 4820 Lot 31 Plan SP144896, Lot 27 Plan RP865802.

Decision

Your amalgamation application has been approved and your environmental authority (reference EPPR00197313) is attached.

Should you have any further enquiries, please contact Vicki Carney on telephone (07) 33305884.

Vicki Carney
Heritage, Utilities and Government Organisations Assessment
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: 07 3330 6037
Email: Vicki.Carney@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

Yours sincerely

Signature	Date
CMooney	22/11/16

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

Enclosed

Permit - environmental authority (reference EPPR00197313)

Permit[1]

Environmental Protection Act 1994

EPPR00197313

Environmental authority

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

Permit[1] number: EPPR00197313

The anniversary date of this environmental authority is the 17th July. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

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

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
60-(2a) Waste disposal >50t but <2000t yr (1)(b)	Waste Greenvale NR0253 - Lot 21 Plan SP185817 Waste Pentland NR0253 - Lot 2 Plan GF838294 Waste Ravenswood NR0253 - Lot 20 Plan GS35
60-(2d) Waste disposal >10000t but <20000t yr (1)(b)	Stubley Street TOLL QLD 4820 - Lot 31 Plan SP144896 and Lot 27 Plan RP865802

Additional information for applicants

Environmentally relevant activities

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

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

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

Queensland Government

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

Contaminated land

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

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

CMooney	22/11/16
Signature	Date

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

Enquiries:
Vicki Carney
Heritage, Utilities and Government Organisations Assessment
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 0733305884
Fax: 07 3330 6037
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

Part 1 - Common conditions for all sites

Environmentally relevant activity(ies)	Location(s)
60-(2a) Waste disposal >50t but <2000t yr (1)(b)	Waste Greenvale NR0253 - Lot 21 Plan SP185817 Waste Pentland NR0253 - Lot 2 Plan GF838294 Waste Ravenswood NR0253 - Lot 20 Plan GS35
60-(2d) Waste disposal >10000t but <20000t yr (1)(b)	Stubley Street TOLL QLD 4820 - Lot 31 Plan SP144896 and Lot 27 Plan RP865802

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**
G1-1	All reasonable and practicable **measures** must be taken to minimise the likelihood of environmental harm being caused.
G1-2	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 **you** becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G1-3	All information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. Environmental monitoring results 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.

G1-4	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.
G1-5	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint that is 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.
Agency interest: Air	
Condition number	**Condition**
A1-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Noise	
Condition number	**Condition**
N1-1	In the event of a complaint about noise that the a**dministering authority** considers is reasonable, the emission of noise from the licensed place must not result in levels greater than those specified in Table 1 – *Noise Limits* until the circumstance which gave rise to the complaint is resolved.

Table 1 – Noise Limits

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

Agency interest: Waste	
Condition number	**Condition**
W1-1	Excepting combustion of landfill gas, waste must not be burnt.

<table>
<tr><td>W1-2</td><td>Only the following waste streams can be received at the site;
(a) domestic waste;
(b) commercial waste;
(c) domestic clean-up waste;
(d) construction or demolition waste;
(e) industrial waste;
(f) garden wastes;
(g) putrescible wastes;
(h) solid inert wastes;
(i) tyres.

NOTES:
(a) wet cell batteries and waste oil may be accepted and stored at the licensed place for recycling.
(b) drums containing any residual regulated waste are a regulated waste unless effectively cleaned.
(c) small quantities of limited regulated waste may be accepted occasionally at the discretion of the holder of this environmental authority, but never to exceed 10% of the total waste volume in any given year.
(d) definitions of waste types are in schedule 9 'Dictionary' of the Environmental Protection Regulation 2008.</td></tr>
<tr><td>W1-3</td><td>No wastes must be interred at the waste disposal facility which exhibit any of the hazard characteristics listed in Table 2 – Hazard Characteristics.

Table 2 – Hazard Characteristics
<table>
<tr><th>Hazard Characteristic</th><th>Description of the Hazard Characteristic</th></tr>
<tr><td>Ignitability</td><td>Regulated wastes that are capable of causing a fire when ignited through friction, absorption of moisture, or spontaneous chemical changes under standard temperature and pressure.</td></tr>
<tr><td>Corrosivity</td><td>Regulated wastes which on dissolution exhibit a pH of 2 or less, or 12.5 or greater.</td></tr>
<tr><td>Reactivity</td><td>Regulated wastes if they have any of the following properties:
- React violently with water;
- Form potentially explosive mixtures with water; and or other co-disposed wastes;
- Generate toxic gases, vapours, of fumes dangerous to human health or the environment when mixed with water; and or other co-disposed wastes;
- Contain substances which generate toxic gases vapours or fumes when exposed to pH conditions between 2 and 12.5; and/or
- Are capable of detonation or explosive reaction when subjected to a strong initiating source or if heated under confinement; and/or
- Are readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.</td></tr>
<tr><td>Radioactivity</td><td>Regulated wastes containing radioactive substances unless disposal is specifically authorised under the Radioactive Substances Act 1958.</td></tr>
</table></td></tr>
</table>

Part 2 - Site specific conditions

Environmentally relevant activity(ies)	Location(s)
60-(2a) Waste disposal >50t but <2000t yr (1)(b)	Waste Greenvale NR0253 - Lot 21 Plan SP185817 Waste Pentland NR0253 - Lot 2 Plan GF838294 Waste Ravenswood NR0253 - Lot 20 Plan GS35

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

Agency interest: General	
Condition number	**Condition**
G2-1	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G2-2	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 and aware of their obligations under the *Environmental Protection Act 1994* *6.* ensure that reviews of environmental performance are undertaken at least annually.
G2-3	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G2-4	All reasonable and practical **measures** must be taken to minimise the production of **leachate** in the landfill unit.
G2-5	All reasonable and practical **measure**s must be taken to contain **leachate** within the landfill unit.
G2-6	The holder of this environmental authority must ensure that any active disposal trench is excavated into low **permeability** soils of sufficient thickness and appropriate characteristics to effectively attenuate landfill **leachate** percolating from the trench to an extent that the migration of landfill **leachate** shall not cause environmental harm or environmental nuisance.
G2-7	The holder of this environmental authority must ensure that the base of any disposal trench is sufficiently separated from any groundwater to prevent the migration of landfill to groundwater.

G2-8	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises. 2. any danger or risk to the health of any persons.
Agency interest: Water	
Condition number	**Condition**
WT2-1	The holder of this environmental authority must 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 release of contaminated stormwater.
WT2-2	A system of suitable diversion drains or embankments must be constructed and maintained to divert surface **waters** away from any area of the licensed place where contact with wastes or contaminants may occur, paying particular attention to: (a) the active disposal area; and (b) any waste storage areas; and (c) any area previously used for waste disposal; and (d) any **leachate** collection ponds (if applicable); and (e) any area used to treat wastes prior to disposal.
WT2-3	Rainfall and stormwater runoff which may contact wastes or contaminants on the licensed place must not be released to any stormwater drain roadside gutters or **waters** without the holder of this environmental authority taking such practicable **measures** as may be necessary to prevent the release.
WT2-4	All batteries, **liquid** chemicals, fuels, and other **liquid** substances with potential to cause environmental harm must be stored within a secondary containment system that is impervious to the materials stored within it, and must be managed to prevent the release of contaminants to **waters** or land.
Agency interest: Land	
Condition number	**Condition**
L2-1	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.

L2-2	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'
L2-3	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
L2-4	The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include **measures** to maintain the structural integrity and effectiveness of the final capping system.
L2-5	A site management plan pursuant to Chapter 7 of the *Environmental Protection Act 1994* must be developed and provided to the **administering authority** at least 12 months before the expected final receipt of waste in the **landfill unit**. The site management plan must include, but is not to be limited to, the future land use and actions intended to taken for compliance with the closure and post-closure care requirements of this approval.

Agency interest: Waste	
Condition number	**Condition**
W2-1	The following waste streams must not be permitted to be placed at the **landfill facility** at any time: (a) liquescent waste streams or any waste capable of yielding free **liquids** (does not include **leachate** or condensate arising from gas collection within the licensed place); (b) untreated infectious and chemical wastes and **liquid** pharmaceuticals from clinical and related waste stream; (c) cytotoxic wastes; (d) untreated sharps; (e) S8 pharmaceuticals; (f) all radioactive wastes, unless otherwise approved under the *Radioactive Substances Act 1958*; (g) pyrophoric wastes (where co-disposed with other potentially combustible material); (h) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction.
W2-2	Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species.

Part 3 - Site specific conditions

Environmentally relevant activity(ies)	Location(s)
60-(2d) Waste disposal >10000t but <20000t yr (1)(b)	Stubley Street TOLL QLD 4820 - Lot 31 Plan SP144896 and Lot 27 Plan RP865802

The environmentally relevant activity 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**
G3-1	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 and aware of their obligations under *the Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.
G3-2	The holder of this environmental authority must submit a report to the **administering authority** with the Annual Return which shall include but not be limited to: (a) a summary of the previous twelve month's monitoring results obtained under any monitoring programs required under this environmental authority and, in graphical form, a comparison of the previous twelve month's monitoring results to both the licence limits and to relevant results; (b) an evaluation/explanation of the data from the monitoring programs; and (c) a summary of any records of quantities of discharge required to be kept under this environmental authority; and (d) a summary of the record of equipment failure or events likely to have adversely affected the environmental performance of the licensed place; and an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs.
G3-3	The holder of this environmental authority must develop and implement, a Site Development Plan for the licensed place, to cover each 5 year period for which the licensed place is open to receive wastes until a Post Closure Care and Maintenance Plan has been implemented.

G3-4	The Site Development Plan must include details of at least the following: (a) dimensions of any area of the licensed place used for waste disposal and storage over the period covered by this Site Development Plan; (b) an accurate level survey of any area of the licensed place to be utilised for the disposal and storage of wastes over the period covered by this Site Development Plan. The levels must be reduced to a common datum and related to contour plans of the licensed place; (c) the approximate dimensions of each waste disposal area and dimensions of the active waste disposal face to be constructed in the area designated in (a) over the period covered by this site development plan; (d) the in situ **permeability** of earthen materials which are to be used for **capping** and/or lining of waste disposal areas and into which excavations will be made for the purposes of waste disposal; (e) approximate location of any **leachate** dam or pond, pump well to be used or other plant and equipment installed as part of a **leachate** collection, storage or recirculation system; (f) location of any stormwater drains or diversion embankments to be constructed to achieve compliance with this environmental authority; and (g) location of any areas to be capped, the proposed final surface levels and contours, final drainage system and species of vegetation to be planted as part of a rehabilitation program for the licensed place over the period covered by this site development plan.
Agency interest: Air	
Condition number	**Condition**
A3-1	The following materials must not be used for dust suppression purposes: 1. **leachate** or landfill gas condensate 2. waste oil or other hydrocarbons.
A3-2	The holder of this environmental authority must adopt such practices and procedures as necessary to ensure that: a) the concentration of landfill gas (methane standards) generated by the **landfill unit** does not exceed 25% of the **lower explosive limit** for methane in useable closed spaces located on the facility excluding any gas control or recovery system components; and b) the concentration of landfill gas components, other than methane, generated by the landfill does not exceed concentrations which may pose a health risk to persons within useable closed spaces located on the facility excluding gas control or recovery system components.

A3-3	Where it is estimated that by the cessation of waste disposal activities 500 000 tonnes or more of waste will be disposed of at the licensed place, the holder of this environmental authority must: (1) submit to the **administering authority** for review and comment, a proposal to implement a landfill gas monitoring program which is to include details of but not be limited to the following information: (a) the depth and location of the proposed landfill gas monitoring piezometers; (b) piezometer design and construction details; (c) frequency of monitoring; (d) determinants to be monitored; (e) the time scale proposed for the construction of monitoring wells and the implementation of a monitoring program; and (f) the parameters and detection limits of monitoring equipment. (2) install landfill gas monitoring piezometers and implement a landfill gas monitoring program; and (3) install an effective gas collection and control system into any tipping area where the landfill gas monitoring program detects landfill gas in concentrations greater than: (a) 25% of the **lower explosive limit** for methane in facility structures other than the gas control units or parts thereof; or (b) the **lower explosive limit** for methane at the landfill **boundary**.
Agency interest: Water	
Condition number	**Condition**
WT3-1	Contaminants must not be released to any **waters**.
WT3-2	The holder of this environmental authority must develop a Detection Monitoring Program for the licensed place covered by this environmental authority, which will effectively detect any release of contaminants from the licensed place to groundwater and/or surface waters.
WT3-3	The Detection Monitoring Program referred to in condition WT3-2 must be developed by a person possessing appropriate qualifications and experience in the fields of hydrogeology and groundwater monitoring program design to be able to competently make recommendations about these matters.
WT3-4	The Detection Monitoring Program must include: (a) sufficient monitoring points and/or wells to obtain representative samples of groundwater and surface waters both up-gradient and down- gradient of the potential influence of the licensed place; and (b) monitoring and measurement techniques that will yield representative samples; and (c) analysis of a sufficient number of indicator parameters whereby significant change of these parameters from up-gradient to down-gradient will indicate the presence of a release of contaminants from the licensed place; and (d) sampling with sufficient spatial and temporal replication to make statistically valid conclusions about the presence or absence of a release from the licensed place with at least an eighty percent change of detecting any release of contaminants from the licensed place if one exists.
WT3-5	Measurement of groundwater levels required must be undertaken prior to any disturbance by sampling, and must be reported as the depth in metres from the established reference point to the water surface within the bore.
WT3-6	All sampling and field testing of contaminants, receiving **waters** and groundwater and preservation of samples must be carried out in accordance with methods prescribed in the most recent Department of Environment and Heritage Protection *Water Quality Sampling Manual*.

WT3-7	On any occasion that samples are obtained, the holder of this environmental authority must measure and record standing groundwater levels in metres, accurate to 0.01 metre (1 cm). The elevation of the reference point at the bore (relative to Australian Height Datum) for use in any groundwater level measurement, must be determined to an accuracy of 0.005 metre (5mm).
Agency interest: Land	
Condition number	**Condition**
L3-1	The holder of this environmental authority shall ensure that completed waste disposal areas are progressively capped with a final cover system consisting of such layers of suitable material of appropriate thickness, placed and compacted as necessary to: (i) prevent the exposure of deposited wastes due to erosion; (ii) prevent as far as practicable the infiltration of water through the cover system; and (iii) support vegetation types appropriate to post-closure land use, and which will not cause the disruption of the integrity of the final cover system.
L3-2	The final surface of the final cover system referred to in condition L3-1 shall be graded and or terraced, equipped with surface drains, and vegetated as soon as practicable after installation of the final cover system so as to: (i) prevent damage to earthworks and cover systems due to erosion; (ii) divert stormwater away from the completed disposal area; and (iii) prevent ponding of stormwater over any area of the final cover system.
L3-3	At least 12 months prior to the completion of waste disposal activities at the licensed place, the holder of this environmental authority must submit to the **administering authority** a closure plan and a post-closure care and maintenance plan.
L3-4	The closure plan referred to in condition L3-3 must describe the proposed actions of the holder of the environmental authority in relation to: (i) final cover system; (ii) final surface contours (including allowances for land subsidence); (iii) land use in post-closure; (iv) surface drainage; (v) **leachate** management.
L3-5	The holder of this environmental authority must commence closure activities no less than 3 months after the date on which the waste disposal facility ceases to receive waste.
L3-6	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
L3-7	The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include **measures** to: 1. maintain the structural integrity and effectiveness of the final **capping** system; 2. maintain and operate the **leachate** collection system; 3. maintain the **groundwater monitoring system** and monitor quality of groundwater at a frequency sufficient to detect any release of contaminants to groundwater; 4. maintain and operate the landfill gas monitoring system; and 5. maintain and operate the landfill gas collection system.

Agency interest: Waste	
Condition number	**Condition**
W3-1	The following waste streams must not be permitted to be placed at the licenced place at any time: (a) liquescent waste streams or any waste capable of yielding free liquids (does not include **leachate** or condensate arising from gas collection within the licensed place); (b) untreated infectious and chemical wastes and liquid pharmaceuticals from clinical and related waste stream; (c) cytotoxic wastes; (d) untreated sharps; (e) S8 pharmaceuticals; (f) all radioactive wastes, unless otherwise approved under the *Radiation Safety Act 1999;* (g) pyrophoric wastes (where co-disposed with other potentially combustible material); (h) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction;
W3-2	Notwithstanding condition W3-1 minor amounts of regulated waste not specifically permitted to be accepted may be deposited at the licensed place provided: (i) the regulated waste is incidental to and commingled with the **general waste** stream; and (ii) the quantity and concentration of the regulated waste (both individually and in aggregate) is insignificant; and (iii) it is impracticable to segregate the regulated waste from other waste which is permitted to be deposited; and (iv) the deposition of the regulated waste is not likely to cause any risk of fire, explosion, public health danger, nuisance, or environmental harm; and (v) all practicable steps are taken to inform persons using the facility that such wastes are not be included in the waste stream to be deposited at the waste disposal facility.
W3-3	Waste tyres may be stored in temporary above ground heaps on the **licensed place** provided there are no more than 500 waste tyres in each heap.
W3-4	Where there is more than one heap of waste tyres, a separation distance between the heaps or other methods must be established and maintained so as to effectively prevent fire from spreading: (a) from one tyre storage heap to another; (b) to other waste stored or disposed of at the licensed place.
W3-5	Used wet cell batteries may only be stored temporarily on the licensed place in a covered enclosure which is bunded to contain spillage or leakage.
W3-6	Waste oil may only be stored temporarily at the licensed place in containers which: (i) are stored in an area which is designated for this purpose and identified by appropriate information signs; and (ii) bunded to contain spillage and leakage; and are securely sealed when full to prevent rainwater entry and spillage; and (iii) have a filling mechanism which prevents rainwater entry and minimise spillage.
W3-7	Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species.
W3-8	The holder of this environmental authority must ensure that all asbestos wastes disposed at the waste disposal facility is buried within the landfill not less than 2 metres from the surface.

W3-9	Where regulated waste is removed from any licensed place covered by this environmental authority (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must 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.
W3-10	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
W3-11	**Leachate** and stormwater runoff which has been in contact with waste materials in the **landfill unit**, must be collected in the **leachate** storage facility and be: 1. treated in the **leachate** treatment plant and discharged to sewer in accordance with the requirements of the relevant water utility; or 2. recirculated through waste disposed in the **landfill unit**; or 3. treated by alternative technologies agreed by the **administering authority** for offsite disposal, discharge, or on-site reuse; or 4. disposed of at a facility that is approved to receive such waste.
W3-12	The holder of this environmental authority must ensure that the design of any newly constructed waste disposal cells incorporates an effective liner system to capture and minimise the direct or indirect release of contaminants to any groundwater, stormwater drain, roadside gutter or surface watercourse. The liner system must be constructed of: a) an engineered earthen liner of at least 0.6 metres thickness, placed in at least two layers, achieving a maximum **permeability** of no greater than 1 x 10-9 metres/ second; or b) a geosynthetic clay liner achieving a maximum **permeability** of no greater than 1 x 10-10 metres/second; or c) an alternative lining system as approved by the **administering authority** which will achieve the same level of **leachate** and contaminant containment as that described in either sub-section a) or b); and d) a **leachate** collection system capable of maintaining the level of **leachate** over the uppermost layer in the lining system of no more than 0.3 metres.
W3-13	The holder of this environmental authority must ensure that any pond or dam installed at the **licensed place** which is used for the collection and storage of **leachate** or contaminated stormwater must be: a) constructed of low **permeability** soils or other material so as to prevent any direct or indirect release of contaminants through the base or embankments; and b) maintained to ensure the stability and integrity of construction. c) constructed and managed so that a **freeboard** capable of preventing overspill is maintained at all times.
W3-14	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.

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.

Background means noise, measured in the absence of the noise under investigation, as L A90,T being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

Boundary means within one metre of the cadastral boundary of the site.

Capping means the covering of a landfill with impervious material to inhibit penetration by liquids.

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.

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.

Landfill facility means land and structures at the site approved used for the disposal of solid waste.

Landfill unit means the current 'active' area which constitutes the landfill section of the waste facility site and does not include other areas of the site not being utilised

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

Limited regulated waste means waste in Schedule 12 'Dictionary' of the *Environmental Protection Regulation 2008.*

Liquid means any substance that:
1. has an angle of repose of less than five degrees; or
2. becomes free flowing at or below 60 degrees Celsius or when it is transported; or
3. is not generally capable of being picked up by a spade or shovel.

Lower explosive limit means the lowest percentage by volume of a mixture of explosive gases in air that will propagate a flame at 25°C and atmospheric pressure.

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

Noxious means harmful or injurious to health or physical well-being.

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

Permeability means a measure of the rate at which a fluid will pass through a medium. The coefficient of permeability of a given fluid is an expression of the rate of flow through unit area and thickness under unit differential pressure at a given temperature. Synonymous with hydraulic conductivity when the fluid is water.

Release of a contaminant into the environment means to:
1. deposit, discharge, emit or disturb the contaminant; and
2. cause or allow the contaminant to be deposited, discharged, emitted or disturbed; and
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed; and
4. allow the contaminant to escape; and
5. 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:
1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
6. a public thoroughfare, park or gardens; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Waste operations area means the following areas:
1. waste receiving
2. sorting
3. treating
4. recycling
5. disposal.

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.

You means the holder of the environmental authority.

END OF PERMIT