Permit[1]

Environmental Protection Act 1994

Environmental authority

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

Permit[1] number: EPPR00926913

Environmental authority takes effect on 17-FEB-2016.

The anniversary date of this environmental authority remains as 09-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
Queensland Health T/A Qld Childrens Health Qld	Stanley Street SOUTH BRISBANE QLD 4101

Environmentally relevant activity and location details

Environmentally relevant activity	Locations
15-Fuel burning >500kg/hr	**3, 5, 9 and 11 Hancock Street, South Brisbane** - Lot 4 Plan SP227484, Lot 48 Plan RP11633, Lot Part 51 Plan RP11633, Lot 5 Plan SP227484, Lot 50 Plan RP11633, Lot 49 Plan RP11633 and Lot 52 Plan RP11633 **54, 58 & 62 Graham Street, South Brisbane** - Lot 33 Plan RP11645, Lot 4 Plan SP227484 and Lot 5 Plan SP227484 **56 Raymond Terrace and South Brisbane** - Lot 52 Plan RP11633

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

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

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.

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

Contaminated land

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

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

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

Signature	Date
CMooney	17/2/16

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

Enquiries:
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: (07) 3330 5875
Email: palm@ehp.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

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

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

Conditions of environmental authority

Environmentally relevant activity	**Locations**
15-Fuel burning >500kg hr	**3, 5, 9 and 11 Hancock Street, South Brisbane** - Lot 4 Plan SP227484, Lot 48 Plan RP11633, Lot Part 51 Plan RP11633, Lot 5 Plan SP227484, Lot 50 Plan RP11633, Lot 49 Plan RP11633 and Lot 52 Plan RP11633 **54, 58 & 62 Graham Street, South Brisbane** - Lot 33 Plan RP11645, Lot 4 Plan SP227484 and Lot 5 Plan SP227484 **56 Raymond Terrace and South Brisbane** - Lot 52 Plan RP11633

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**
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 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	**Alterations** No change, replacement or operation of any plant or equipment is permitted if the change replacement or operation of the plant and equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of ten percent (10%) or more of the contaminant to be released into the environment.
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.
G5	The site based management plan 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; h) conducting environmental impact assessments; i) staff training; j) record keeping; and k) periodic review of environmental performance and continual improvement.
G6	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.
G7	A copy of the site based management plan must be kept in a location readily accessible to personnel carrying out the activity and must be made available to the administering authority upon request.
G8	**Records** Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
G9	All records required by this approval must be kept for 5 years.
G10	**Notification** Telephone the department's Pollution Hotline on 1300 130 372 as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

G11	**Information About Spills** A written notice detailing the following information must be provided to the department 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.
G12	**Monitoring** A competent person(s) must conduct any monitoring required by this approval.
G13	**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.
G14	**Spill Kit** An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site.
G15	**Spill Kit Training** Anyone operating under this approval must be trained in the use of the spill kit.

Agency interest: Air	
Condition number	**Condition**
A1	**Release of Contaminants to the Atmosphere** The release of contaminants to the atmosphere from a point source must only occur from those release points identified in Table 1 - *Contaminants release to air* - and must be directed vertically upwards without any impedance or hindrance.
A2	Contaminants must be released to the atmosphere from a release point at a height and velocity not less than the corresponding height and velocity stated for that release point in Table 1 - *Contaminants release to air*.

A3

Contaminants must not be released to the atmosphere from a release point at a mass emission rate/concentration, as measured at a monitoring point, in excess of that stated in Table 1 - *Contaminants release to air* - and monitored not less frequently than Table 2 - *Required release point determinations.*

Table 1 - Contaminants release to air

Release point number	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit [1]
A1-Generator Stack	27	14	Oxides of Nitrogen	50 mg/N m^3 (dry) @5% O_2 and 0.16 grams/second
A2-Generator Stack	27	14	Oxides of Nitrogen	50 mg/N m^3 (dry) @5% O_2 and 0.16 grams/second
A3- Hot Water Boiler Stack	27	9	Oxides of Nitrogen	90 mg/N m^3 (dry) @3% O_2 and 0.06 grams/second
A4- Hot Water Boiler Stack	27	9	Oxides of Nitrogen	90 mg/N m^3 (dry) @3% O_2 and 0.06 grams/second
A5- Hot Water Boiler Stack	27	9	Oxides of Nitrogen	90 mg/N m^3 (dry) @3% O_2 and 0.06 grams/second
A6- Hot Water Boiler Stack	27	9	Oxides of Nitrogen	90 mg/N m^3 (dry) @3% O_2 and 0.06 grams/second
A7- Hot Water Boiler Stack	27	9	Oxides of Nitrogen	90 mg/N m^3 (dry) @3% O_2 and 0.06 grams/second
A8- Hot Water Boiler Stack	27	9	Oxides of Nitrogen	90 mg/N m^3 (dry) @3% O_2 and 0.06 grams/second
A9 - Standby Hot Water Boiler Stack	27	9	Oxides of Nitrogen	90 mg/N m3 (dry) @3% O2 and 0.06 grams/second
A10 - Steam Boiler Stack	27	10	Oxides of Nitrogen	120 mg/N m^3 (dry) @3% O_2 and 0.1 grams/second
A11 - Standby Steam Boiler Stack	27	10	Oxides of Nitrogen	120 mg/N m3 (dry) @3% O2 and 0.1 grams/second

Note 1: The above NOx release limits are applicable at all times except start-up, shut-down and calibration of emission monitoring devices. The start-up duration is allowed up to 30 minutes.

A4

Fuel Burning
The only type of fuel to be burnt in the fuel burning equipment listed in Table 1 - *Contaminants release to air* - under normal operating conditions is natural gas.

A5	**Standby Diesel Generators** The standby diesel generators are only to be used when: a) there is a failure in the power supply grid; or b) testing according to manufacturer's specifications and/or Australian Standards is required; or c) required as a result of a computer system malfunction which would not be reasonably foreseen.
A6	The only type of fuel to be burnt in the standby diesel generators is diesel.
A7	The exhaust gases of the diesel generators must pass through a particulate emissions control system that reduces particulates in the exhaust by at least 85% and converts 95% of carbon monoxide and hydrocarbons to water vapour and carbon dioxide.

A8

Monitoring of Contaminant Releases to the Atmosphere
The holder of this approval must conduct and keep records of a monitoring program of contaminant releases to the atmosphere at the release points, frequency, and for the parameter specified in Table 2 - *Required release point determinations* - and which complies with the following:

a) monitoring provision for the release points listed in Table 2 must comply with the Australian Standard AS 4323.1 - 1995 "Stationary source emissions Method 1: Selection of sampling provisions".

b) the following tests must be performed for each required determination specified in Table 2:
   (i) gas velocity and volume flow rate;
   (ii) temperature and oxygen content; and
   (iii) water vapour concentration.

c) where practicable samples taken must be representative of the contaminants discharged when emissions are expected to be at maximum rates.

d) during the sampling period the following additional information must be gathered:
   (iv) Power generation rate at the time of the sampling;
   (v) fuel type and consumption rate;
   (vi) number of generating units in use; and
   (vii) reference to the actual test method and accuracies.

Table 2 - Required release point determinations

Determination Required	Release Point Numbers	Frequency
Mass emission rate and concentration of oxides of nitrogen (NOx) in the flue gas at 5 percent oxygen reference level	Generator Stacks A1 and A2	One stack tested annually on a rotational basis
Mass emission rate and concentration of oxides of nitrogen (NOx) in the flue gas at 3 percent oxygen reference level	Hot Water Boiler Stacks A3 to A9 inclusive	Two stacks tested annually on rotational basis
Mass emission rate and concentration of oxides of nitrogen (NOx) in the flue gas at 3 percent oxygen reference level	Steam Boiler Stack A10 and A11	One stack tested annually on a rotational basis

A9

Within 3 months of commissioning the energy plant, the holder of this authority must conduct air emission monitoring to demonstrate compliance with air emission limits listed in Table 1 - *Contaminants release to air*.

A10

All release points referred to in Table 1 - *Contaminants release to air* - must be conspicuously marked with the corresponding release point number.

A11	**Nuisance** Notwithstanding any other condition of this approval, 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 place.
A12	When requested by the administering authority, monitoring must be undertaken to investigate any complaint of environmental nuisance caused by the release to the atmosphere from the site, and the results thereof notified to the administering authority within 14 days following completion of monitoring.
Agency interest: Water	
Condition number	**Condition**
WA1	**Release of Contaminants to Water** Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or materials to any stormwater drainage system, roadside gutter or waters.
WA2	Contaminants other than settled/treated stormwater runoff waters must not be released from the site to surface waters or the bed or banks of surface waters.
WA3	There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.
WA4	**Bunding** All chemical tank storage must be bunded so that the capacity of the bund is sufficient to contain at least one hundred percent (100%) of the largest storage tank plus ten percent (10%) of the second largest tank within the bund.
WA5	All chemical drum storage must be bunded so that the capacity of the bund is sufficient to contain at least twenty five percent (25%) of the maximum design storage volume within the bund.
WA6	All bunding must be constructed of materials which are impervious to the materials stored.
WA7	All bunding must be roofed where practicable.
WA8	All pipe work installed on site from bunded areas must be directed over the bund wall and not through it.
WA9	Where vehicle access to a bunded area is required, the access must be by way of roll over bund.
Agency interest: Noise	
Condition number	**Condition**
N1	**Generator Testing** Testing of the standby diesel generators must only occur between 7:00 am to 6:00 pm with the exception of Black Start Tests which may be undertaken after hours between 11:00 pm and 6:00 am on no more than two occasions per annum, for a maximum duration of four hours for each test.
N2	**Noise Nuisance** Noise from the activities must not cause an environmental nuisance at any nuisance sensitive place.

<table>
<tr><td>N3</td><td>Noise from the activities must not exceed the levels specified in Table 3 – Noise limits at any nuisance sensitive place.

Table 3: Noise limits
<table>
<tr><td rowspan="2">Sound pressure level dB(A) measured as</td><td colspan="3">Monday to Sunday</td></tr>
<tr><td>7am - 6pm</td><td>6pm - 10pm</td><td>10pm - 7am</td></tr>
<tr><td></td><td colspan="3">Noise measured at a 'Nuisance sensitive place'</td></tr>
<tr><td>$L_{Aeq\ adj,\ 15\ minutes}$</td><td>55 dB(A)</td><td>50 dB(A)</td><td>45 dB(A)</td></tr>
<tr><td>$L_{A10\ adj,\ 15\ minutes}$</td><td>58 dB(A)</td><td>53 dB(A)</td><td>48 dB(A)</td></tr>
</table></td></tr>
<tr><td>N4</td><td>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:
a) $L_{A\ eq,\ adj,\ 15mins}$
b) $L_{A\ 10,\ adj,\ 15mins}$
c) The level and frequency of occurrence of impulsive or tonal noise;
d) Atmospheric conditions including wind speed and direction effects due to extraneous factors such as traffic noise; and
e) Location, date and time of recording.</td></tr>
<tr><td>N5</td><td>The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.</td></tr>
<tr><td colspan="2">Agency interest: Land</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>L1</td><td>Preventing Contaminant Release to Land
There must be no release or likelihood of release of any contaminants to land.</td></tr>
<tr><td colspan="2">Agency interest: Social</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>S1</td><td>Complaint Response
The operator of the activity must record the following details for all complaints received and provide this information to the administering authority on request:
a) time, date, name and contact details of the complainant;
b) reasons for the complaint;
c) any investigations undertaken;
d) conclusions formed; and
e) any actions taken.</td></tr>
</table>

Agency interest: Waste	
Condition number	**Condition**
W1	The registered operator of this environmental authority must not: a) burn waste at or on the approved place; nor b) allow waste to burn or be burnt at or on the approved place; nor c) remove waste from the approved place and burn such waste elsewhere.
W2	**Waste Management Plan** From commencement of an ERA to which this approval relates, a waste management plan must be implemented. The waste management plan must address at least the following matters: a) the types and amounts of waste generated by the ERA; b) how the waste will be dealt with, including a description of the types and amounts of waste that will be dealt with under each of the waste management practices mentioned in the waste management hierarchy (section 10 of the *Environmental Protection (Waste Management) Policy 2000*); c) procedures for identifying and implementing opportunities to improve the waste management practices employed e.g. opportunities for beneficial reuse of biosolids; d) procedures for dealing with accidents, spills and other incidents that may impact on the waste management; e) details of any accredited management system employed, or planned to be employed, to deal with the waste; f) how often the performance of the waste management practices will be assessed (at least annually); and g) the indicators or other criteria on which the performance of the waste management practices will be assessed.
W3	A copy of the waste management plan must be made available to the administering authority upon request.

Definitions

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

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

approved plans means the plans and documents listed in the approved plans section in the notice attached to this environmental authority.

authorised place means the place authorised under this environmental authority 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.

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

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

$L_{A,\ max\ adj,\ T}$ 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.

normal cubic metre (m^3) means the volume of dry gaseous contaminant which occupies 1 cubic metre at a temperature of zero degrees Celsius and at an absolute pressure of 101.3 kilopascals.

noxious means harmful or injurious to health or physical wellbeing.

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.

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

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 environmental authority.

you means the holder of this environmental authority or owner / occupier of the land which is the subject of this environmental authority.

END OF PERMIT