

Karle Matt

From: Yoshino Toshi
Sent: Monday, 5 December 2011 2:11 PM
To: Karle Matt
Subject: RE: Noise - still

49dB is what the LAeq is currently without the development.
 If we allow the new development to make 47dB, the outcome will be 51dB.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Monday, 5 December 2011 2:09 PM
To: Yoshino Toshi
Subject: RE: Noise - still

You'll hate me for asking another question Toshi. Sorry.

In the email below, you add the PFNC level of 47 and the actual ambient Leq of 49, and derive 51dB(A). Why did you add the 2 noises together? Isn't one a planning level and one an actual level?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:25 PM
To: Karle Matt
Subject: RE: Noise - still

Oops, I left one step out.

Current existing LAeq without source noise is 49dB. Using algorithmic calculation, 47dB LAeq and 49 existing is 51dB(A).

So the limit of measured level should be set at 51dB(A).

Cheers,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

R

Department of Environment and Resource Management
www.derm.qld.gov.au
 Department of Environment and Resource Management
 Corner Main and Vulture Streets, Woolloongabba Q
 PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:00 PM
To: Yoshino Toshi
Subject: RE: Noise - still

It is a bit of a shocker of a site.....

A landfill exists. They are proposing an extension of the landfill, and a new Transfer Station. We are actually proposing not to approve the transfer station component of the proposal. It is within about 200m of residential homes, which are elevated that looking immediately down on the proposed transfer station. They have not identified all reasonable and practical measures to minimise noise. They are currently working on additional info for us to consider.

Re the landfill extension – it too is approximately 250m from residents at the closest point, but the topography is far more agreeable, and there is a strip of commercial premises in that 250m strip as a kinda separation. Given there is an existing landfill, it makes sense that the impact of landfilling be associated with a site already impacted by landfilling.

What is important, is that we strive to protect amenity, while still having conditions that can be complied with.

It would appear from the consultant report, predicted (not actual) noise emissions from the existing activity at the most affected residents is 53 Leq (1hr). Another report we have here from an objector who engaged his own noise consultants to undertake a noise investigation (which includes source noise) indicates L90 39dB(A), Leq 52dB(A), and L10 54dB(A).

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 3:36 PM
To: Karle Matt
Subject: RE: Noise - still

Cool, I had suspected there were an MCU and it wasn't purely a compliance thing.

Planning for noise control guideline does not work when any part of the existing noise environment is higher than the "objectives". It's a flaw that needs to be rectified in the practical application.

For a landfill with a steady state and intermittent noise, I would say a LAeq would capture it well.

What number is appropriate, it is difficult to say. Have you got the current LAeq level of the landfill's emission? I might try and work something out.

Also, what is the nearest receptor and what is in it's surroundings?

Toshi YOSHINO
 Senior Environmental Officer

R

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands
Department of Environment and Resource Management
www.derm.qld.gov.au
Department of Environment and Resource Management
Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 3:24 PM
To: Yoshino Toshi
Subject: RE: Noise - still

Yeah – thanks for the reply Toshi. I tried to make a long story short in my initial email to you which has lead to some confusion. There is an MCU for the landfill – to expand it – hence the reason for the consultant using the planning for noise control guideline. They get a similar level to ambient plus 5.

The existing DA has BG + 5dB(A). I understand LmaxadjT is the statistical average of all peaks from the source noise during time interval T. Given the low BG of 38 during the day, adding 5 to that low number still only gives a low number. I imagine a landfill would struggle to comply with such a low level. I'd also argue its not a fair number if the Leq and L10 of the BG are a fair bit higher.

What conditions have you seen that you think are good / fair / enforceable for an activity with some steady state and some intermittent bangs etc that you'd recommend?

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 3:15 PM
To: Karle Matt
Subject: RE: Noise - still

Hi Matt,

Planning for noise control guideline is a tool for DERM to come up with a noise limit in a DA in case of a MCU. It would not apply to an existing ERA, unless they are planning to have a MCU. For an existing ERA, the current DA limits would be the only thing that apply (well, along with all of EPAct etc...). If this DA states "BG +5dB(A) Lmax-adj-T", that is what applies. I have no idea why the consultant is pulling out the planning for noise control guideline.

To work out the Lmax-adj-T, you need to listen to all of the relevant peaks within the measurement period and note the levels. Average these levels statistically, and you get the Lmax-adj-T level.

In the "background survey", there are probably some things in the environment that are raising the LAeq and LA10 (may be cicada, birds and other fauna?). The Lmax would not necessarily end up

louder than the LAeq and LA10 in these instances, as it only takes into account the peaks made by the ERA activity and discounts the birds and the bees and the other stuff.

If there is a plan for a MCU and we need to come up with a new LAeq level, we may need to get crafty with the concept, given existing LAeq and LA10 being very high.

Regards,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 2:51 PM

To: Yoshino Toshi

Subject: Noise - still

Importance: High

Hi Toshi,

I have a question for you, about a landfill I am dealing with.

The landfill has the normal noise table, with authorised noise level being BG plus 5dB(A) measured as LmaxadjT. A consultant has done background noise monitoring in the absence of the source noise, and determines:

L90 – 38,
Leq – 49
L10 – 51
Lmax – 69

The consultant has also used the planning for noise control guideline, and has determined a planning noise level of 44dB(A). This also equates to the L90 plus 5dB(A). The consultant then modelled noise emissions, and determines lots of areas that exceed 44 dB(A), and hence the landfill is in non – compliance at many sensitive receptors.

What I don't understand is that, in the absence of the source noise, both the Leq and L10 are higher than the LmaxadjT that the client is authorised to emit.

Am I not understanding this properly?

Your thoughts appreciated?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt**From:** Yoshino Toshi**Sent:** Monday, 5 December 2011 9:04 AM**To:** Karle Matt**Subject:** RE: Noise - still

Planning level of 44dB is in L90.

Planning for noise control guideline says to add 3dB to make it into LAeq. $44+3 = 47$.**Toshi YOSHINO**

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt**Sent:** Friday, 2 December 2011 4:38 PM**To:** Yoshino Toshi**Subject:** RE: Noise - still

I know you will be gone for the week, but where did the 47dB(A) come from in your calculation?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au**From:** Yoshino Toshi**Sent:** Friday, 2 December 2011 4:31 PM**To:** Karle Matt**Subject:** RE: Noise - still

Yeah.

Adding noise level x + noise level y is $10\log^{(10x/10+10y/10)}$.So $49+47=51$. (or close enough to)

This looks a lot more achievable...

On this note, I will have to knock off.

Let me know if there are more questions. I will get back to you on Monday.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

R

Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:26 PM
To: Yoshino Toshi
Subject: RE: Noise - still

So adding 47 and 49 = 51 – is that what you're saying?

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:25 PM
To: Karle Matt
Subject: RE: Noise - still

Oops, I left one step out.
Current existing LAeq without source noise is 49dB. Using algorithmic calculation,
47dB LAeq and 49 existing is 51dB(A).

So the limit of measured level should be set at 51dB(A).

Cheers,

Toshi YOSHINO
Senior Environmental Officer
Ph: (07) 3896 3090
E-mail: toshi.yoshino@derm.qld.gov.au
Environmental Services- Logan Scenic Rim Redlands
Department of Environment and Resource Management
www.derm.qld.gov.au
Department of Environment and Resource Management
Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:00 PM
To: Yoshino Toshi
Subject: RE: Noise - still

It is a bit of a shocker of a site.....

A landfill exists. They are proposing an extension of the landfill, and a new Transfer Station. We are actually proposing not to approve the transfer station component of the proposal. It is within about 200m of residential homes, which are elevated that looking immediately down on the proposed transfer station. They have not identified all reasonable and practical measures to minimise noise. They are currently working on additional info for us to consider.

Re the landfill extension – it too is approximately 250m from residents at the closest point, but the topography is far more agreeable, and there is a

R

strip of commercial premises in that 250m strip as a kinda separation. Given there is an existing landfill, it makes sense that the impact of landfilling be associated with a site already impacted by landfilling.

What is important, is that we strive to protect amenity, while still having conditions that can be complied with.

It would appear from the consultant report, predicted (not actual) noise emissions from the existing activity at the most affected residents is 53 Leq (1hr). Another report we have here from an objector who engaged his own noise consultants to undertake a noise investigation (which includes source noise) indicates L90 39dB(A), Leq 52dB(A), and L10 54dB(A).

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 3:36 PM
To: Karle Matt
Subject: RE: Noise - still

Cool, I had suspected there were an MCU and it wasn't purely a compliance thing.

Planning for noise control guideline does not work when any part of the existing noise environment is higher than the "objectives". It's a flaw that needs to be rectified in the practical application.

For a landfill with a steady state and intermittent noise, I would say a LAeq would capture it well.

What number is appropriate, it is difficult to say. Have you got the current LAeq level of the landfill's emission? I might try and work something out.

Also, what is the nearest receptor and what is in it's surroundings?

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 3:24 PM
To: Yoshino Toshi
Subject: RE: Noise - still

Yeah – thanks for the reply Toshi. I tried to make a long story short in my initial email to you which has lead to some confusion. There is an MCU for the landfill – to expand it – hence the reason for the

consultant using the planning for noise control guideline. They get a similar level to ambient plus 5.

The existing DA has BG + 5dB(A). I understand LmaxadjT is the statistical average of all peaks from the source noise during time interval T. Given the low BG of 38 during the day, adding 5 to that low number still only gives a low number. I imagine a landfill would struggle to comply with such a low level. I'd also argue its not a fair number if the Leq and L10 of the BG are a fair bit higher.

What conditions have you seen that you think are good / fair / enforceable for an activity with some steady state and some intermittent bangs etc that you'd recommend?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:15 PM

To: Karle Matt

Subject: RE: Noise - still

Hi Matt,

Planning for noise control guideline is a tool for DERM to come up with a noise limit in a DA in case of a MCU. It would not apply to an existing ERA, unless they are planning to have a MCU. For an existing ERA, the current DA limits would be the only thing that apply (well, along with all of EPAct etc...). If this DA states "BG +5dB(A) Lmax-adj-T", that is what applies. I have no idea why the consultant is pulling out the planning for noise control guideline.

To work out the Lmax-adj-T, you need to listen to all of the relevant peaks within the measurement period and note the levels. Average these levels statistically, and you get the Lmax-adj-T level.

In the "background survey", there are probably some things in the environment that are raising the LAeq and LA10 (may be cicada, birds and other fauna?). The Lmax would not necessarily end up louder than the LAeq and LA10 in these instances, as it only takes into account the peaks made by the ERA activity and discounts the birds and the bees and the other stuff.

If there is a plan for a MCU and we need to come up with a new LAeq level, we may need to get crafty with the concept, given existing LAeq and LA10 being very high.

Regards,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

R

Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 2:51 PM
To: Yoshino Toshi
Subject: Noise - still
Importance: High

Hi Toshi,

I have a question for you, about a landfill I am dealing with.

The landfill has the normal noise table, with authorised noise level being BG plus 5dB(A) measured as L_{maxadjT}. A consultant has done background noise monitoring in the absence of the source noise, and determines:

L₉₀ – 38,
Leq – 49
L₁₀ – 51
L_{max} – 69

The consultant has also used the planning for noise control guideline, and has determined a planning noise level of 44dB(A). This also equates to the L₉₀ plus 5dB(A). The consultant then modelled noise emissions, and determines lots of areas that exceed 44 dB(A), and hence the landfill is in non – compliance at many sensitive receptors.

What I don't understand is that, in the absence of the source noise, both the Leq and L₁₀ are higher than the L_{maxadjT} that the client is authorised to emit.

Am I not understanding this properly?

Your thoughts appreciated?

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Yoshino Toshi
Sent: Monday, 5 December 2011 9:04 AM
To: Karle Matt
Subject: RE: Noise - still

Planning level of 44dB is in L90.

Planning for noise control guideline says to add 3dB to make it into LAeq. $44+3 = 47$.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:38 PM
To: Yoshino Toshi
Subject: RE: Noise - still

I know you will be gone for the week, but where did the 47dB(A) come from in your calculation?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:31 PM
To: Karle Matt
Subject: RE: Noise - still

Yeah.

Adding noise level x + noise level y is $10\log^{10}(10x/10+10y/10)$.

So $49+47=51$. (or close enough to)

This looks a lot more achievable...

On this note, I will have to knock off.

Let me know if there are more questions. I will get back to you on Monday.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

R

Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:26 PM
To: Yoshino Toshi
Subject: RE: Noise - still

So adding 47 and 49 = 51 – is that what you're saying?

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:25 PM
To: Karle Matt
Subject: RE: Noise - still

Oops, I left one step out.
Current existing LAeq without source noise is 49dB. Using algorithmic calculation, 47dB LAeq and 49 existing is 51dB(A).

So the limit of measured level should be set at 51dB(A).

Cheers,

Toshi YOSHINO
Senior Environmental Officer
Ph: (07) 3896 3090
E-mail: toshi.yoshino@derm.qld.gov.au
Environmental Services- Logan Scenic Rim Redlands
Department of Environment and Resource Management
www.derm.qld.gov.au
Department of Environment and Resource Management
Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:00 PM
To: Yoshino Toshi
Subject: RE: Noise - still

It is a bit of a shocker of a site.....

A landfill exists. They are proposing an extension of the landfill, and a new Transfer Station. We are actually proposing not to approve the transfer station component of the proposal. It is within about 200m of residential homes, which are elevated that looking immediately down on the proposed transfer station. They have not identified all reasonable and practical measures to minimise noise. They are currently working on additional info for us to consider.

Re the landfill extension – it too is approximately 250m from residents at the closest point, but the topography is far more agreeable, and there is a

R

strip of commercial premises in that 250m strip as a kinda separation. Given there is an existing landfill, it makes sense that the impact of landfilling be associated with a site already impacted by landfilling.

What is important, is that we strive to protect amenity, while still having conditions that can be complied with.

It would appear from the consultant report, predicted (not actual) noise emissions from the existing activity at the most affected residents is 53 Leq (1hr). Another report we have here from an objector who engaged his own noise consultants to undertake a noise investigation (which includes source noise) indicates L90 39dB(A), Leq 52dB(A), and L10 54dB(A).

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:36 PM

To: Karle Matt

Subject: RE: Noise - still

Cool, I had suspected there were an MCU and it wasn't purely a compliance thing.

Planning for noise control guideline does not work when any part of the existing noise environment is higher than the "objectives". It's a flaw that needs to be rectified in the practical application.

For a landfill with a steady state and intermittent noise, I would say a LAeq would capture it well.

What number is appropriate, it is difficult to say. Have you got the current LAeq level of the landfill's emission? I might try and work something out.

Also, what is the nearest receptor and what is in it's surroundings?

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 3:24 PM

To: Yoshino Toshi

Subject: RE: Noise - still

Yeah – thanks for the reply Toshi. I tried to make a long story short in my initial email to you which has lead to some confusion. There is an MCU for the landfill – to expand it – hence the reason for the

R

consultant using the planning for noise control guideline. They get a similar level to ambient plus 5.

The existing DA has BG + 5dB(A). I understand LmaxadjT is the statistical average of all peaks from the source noise during time interval T. Given the low BG of 38 during the day, adding 5 to that low number still only gives a low number. I imagine a landfill would struggle to comply with such a low level. I'd also argue its not a fair number if the Leq and L10 of the BG are a fair bit higher.

What conditions have you seen that you think are good / fair / enforceable for an activity with some steady state and some intermittent bangs etc that you'd recommend?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:15 PM

To: Karle Matt

Subject: RE: Noise - still

Hi Matt,

Planning for noise control guideline is a tool for DERM to come up with a noise limit in a DA in case of a MCU. It would not apply to an existing ERA, unless they are planning to have a MCU.

For an existing ERA, the current DA limits would be the only thing that apply (well, along with all of EPA etc...).

If this DA states "BG +5dB(A) Lmax-adj-T", that is what applies. I have no idea why the consultant is pulling out the planning for noise control guideline.

To work out the Lmax-adj-T, you need to listen to all of the relevant peaks within the measurement period and note the levels. Average these levels statistically, and you get the Lmax-adj-T level.

In the "background survey", there are probably some things in the environment that are raising the LAeq and LA10 (may be cicada, birds and other fauna?). The Lmax would not necessarily end up louder than the LAeq and LA10 in these instances, as it only takes into account the peaks made by the ERA activity and discounts the birds and the bees and the other stuff.

If there is a plan for a MCU and we need to come up with a new LAeq level, we may need to get crafty with the concept, given existing LAeq and LA10 being very high.

Regards,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

R

Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 2:51 PM
To: Yoshino Toshi
Subject: Noise - still
Importance: High

Hi Toshi,

I have a question for you, about a landfill I am dealing with.

The landfill has the normal noise table, with authorised noise level being BG plus 5dB(A) measured as LmaxadjT. A consultant has done background noise monitoring in the absence of the source noise, and determines:

L90 – 38,
Leq – 49
L10 – 51
Lmax – 69

The consultant has also used the planning for noise control guideline, and has determined a planning noise level of 44dB(A). This also equates to the L90 plus 5dB(A). The consultant then modelled noise emissions, and determines lots of areas that exceed 44 dB(A), and hence the landfill is in non – compliance at many sensitive receptors.

What I don't understand is that, in the absence of the source noise, both the Leq and L10 are higher than the LmaxadjT that the client is authorised to emit.

Am I not understanding this properly?

Your thoughts appreciated?

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

R

Karle Matt

From: Yoshino Toshi
Sent: Monday, 5 December 2011 9:30 AM
To: Karle Matt
Subject: RE: Noise - still

73(2)Irrelevant

73(2)Irrelevant

it's good to have another noise person onboard.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Monday, 5 December 2011 9:27 AM
To: Yoshino Toshi
Subject: RE: Noise - still

Tosh – did you put in for 73(2)Irrelevant

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Monday, 5 December 2011 9:25 AM
To: Karle Matt
Subject: RE: Noise - still

No problem.

There's now a new AO6 noise specialist in our division called Cate Puschmann. Hopefully, once she is fully inducted, we'll try and come up with a "standardised method" of deriving a DA limit, that's a little easier to understand than that. Or even just an explanation note on using the guideline.

I'll make sure it gets distributed throughout the state.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

R

Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Monday, 5 December 2011 9:20 AM
To: Yoshino Toshi
Subject: RE: Noise - still

Yeah Thanks Toshi – I see the 47 calculation in an email trail that diverged from this one.....I think I sent you a reply before you sent an additional reply – hence that 47dB(A) calculation email is not in the thread below. I've found that other email thread with the 47dB (A) calculation in it so the 47dB(A) makes sense again.

I'll have a chew through it all. Thanks very much for your assistance.

Regards

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Monday, 5 December 2011 9:04 AM
To: Karle Matt
Subject: RE: Noise - still

Planning level of 44dB is in L90.
Planning for noise control guideline says to add 3dB to make it into LAeq. $44+3 = 47$.

Toshi YOSHINO
Senior Environmental Officer
Ph: (07) 3896 3090
E-mail: toshi.yoshino@derm.qld.gov.au
Environmental Services- Logan Scenic Rim Redlands
Department of Environment and Resource Management
www.derm.qld.gov.au
Department of Environment and Resource Management
Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:38 PM
To: Yoshino Toshi
Subject: RE: Noise - still

I know you will be gone for the week, but where did the 47dB(A) come from in your calculation?

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618

R

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:31 PM
To: Karle Matt
Subject: RE: Noise - still

Yeah.
 Adding noise level x + noise level y is $10\log^{10}(10x/10+10y/10)$.
 So $49+47=51$. (or close enough to)

This looks a lot more achievable...

On this note, I will have to knock off.
 Let me know if there are more questions. I will get back to you on Monday.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:26 PM
To: Yoshino Toshi
Subject: RE: Noise - still

So adding 47 and 49 = 51 – is that what you're saying?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:25 PM
To: Karle Matt
Subject: RE: Noise - still

Oops, I left one step out.
 Current existing LAeq without source noise is 49dB. Using
 algorithmic calculation, 47dB LAeq and 49 existing is 51dB(A).

So the limit of measured level should be set at 51dB(A).

Cheers,

Toshi YOSHINO

Senior Environmental Officer

R

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 4:00 PM

To: Yoshino Toshi

Subject: RE: Noise - still

It is a bit of a shocker of a site.....

A landfill exists. They are proposing an extension of the landfill, and a new Transfer Station. We are actually proposing not to approve the transfer station component of the proposal. It is within about 200m of residential homes, which are elevated that looking immediately down on the proposed transfer station. They have not identified all reasonable and practical measures to minimise noise. They are currently working on additional info for us to consider.

Re the landfill extension – it too is approximately 250m from residents at the closest point, but the topography is far more agreeable, and there is a strip of commercial premises in that 250m strip as a kinda separation. Given there is an existing landfill, it makes sense that the impact of landfilling be associated with a site already impacted by landfilling.

What is important, is that we strive to protect amenity, while still having conditions that can be complied with.

It would appear from the consultant report, predicted (not actual) noise emissions from the existing activity at the most affected residents is 53 Leq (1hr). Another report we have here from an objector who engaged his own noise consultants to undertake a noise investigation (which includes source noise) indicates L90 39dB(A), Leq 52dB(A), and L10 54dB(A).

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:36 PM

To: Karle Matt

Subject: RE: Noise - still

Cool, I had suspected there were an MCU and it wasn't purely a compliance thing.

Planning for noise control guideline does not work when any part of the existing noise environment is higher than the "objectives". It's a flaw that needs to be rectified in the practical application.

For a landfill with a steady state and intermittent noise, I would say a LAeq would capture it well.

R

What number is appropriate, it is difficult to say. Have you got the current LAeq level of the landfill's emission? I might try and work something out.

Also, what is the nearest receptor and what is in it's surroundings?

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands
Department of Environment and Resource Management
www.derm.qld.gov.au
Department of Environment and Resource Management
Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 3:24 PM

To: Yoshino Toshi

Subject: RE: Noise - still

Yeah – thanks for the reply Toshi. I tried to make a long story short in my initial email to you which has lead to some confusion. There is an MCU for the landfill – to expand it – hence the reason for the consultant using the planning for noise control guideline. They get a similar level to ambient plus 5.

The existing DA has BG + 5dB(A). I understand LmaxadjT is the statistical average of all peaks from the source noise during time interval T. Given the low BG of 38 during the day, adding 5 to that low number still only gives a low number. I imagine a landfill would struggle to comply with such a low level. I'd also argue its not a fair number if the Leq and L10 of the BG are a fair bit higher.

What conditions have you seen that you think are good / fair / enforceable for an activity with some steady state and some intermittent bangs etc that you'd recommend?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:15 PM

To: Karle Matt

Subject: RE: Noise - still

Hi Matt,

Planning for noise control guideline is a tool for DERM to come up with a noise limit in a DA in case of a MCU. It would not apply to an existing ERA, unless they are planning to have a MCU. For an existing ERA, the current DA limits would be the only thing that apply (well, along with all of EPAAct etc...). If this DA states "BG +5dB(A) Lmax-adj-T", that is what applies. I

R

have no idea why the consultant is pulling out the planning for noise control guideline.

To work out the L_{Amax-adj-T}, you need to listen to all of the relevant peaks within the measurement period and note the levels. Average these levels statistically, and you get the L_{Amax-adj-T} level.

In the "background survey", there are probably some things in the environment that are raising the L_{Aeq} and L_{A10} (may be cicada, birds and other fauna?). The L_{Amax} would not necessarily end up louder than the L_{Aeq} and L_{A10} in these instances, as it only takes into account the peaks made by the ERA activity and discounts the birds and the bees and the other stuff.

If there is a plan for a MCU and we need to come up with a new L_{Aeq} level, we may need to get crafty with the concept, given existing L_{Aeq} and L_{A10} being very high.

Regards,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 2:51 PM

To: Yoshino Toshi

Subject: Noise - still

Importance: High

Hi Toshi,

I have a question for you, about a landfill I am dealing with.

The landfill has the normal noise table, with authorised noise level being BG plus 5dB(A) measured as L_{maxadjT}. A consultant has done background noise monitoring in the absence of the source noise, and determines:

L₉₀ – 38,
L_{eq} – 49
L₁₀ – 51
L_{max} – 69

The consultant has also used the planning for noise control guideline, and has determined a planning noise level of 44dB(A). This also equates to the L₉₀ plus 5dB(A). The consultant then modelled noise emissions, and determines lots of areas that exceed 44 dB(A), and hence the landfill is in non – compliance at many sensitive receptors.

What I don't understand is that, in the absence of the source noise, both the L_{eq} and L₁₀ are higher than the L_{maxadjT} that the client is authorised to emit.

Am I not understanding this properly?

R

Your thoughts appreciated?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Yoshino Toshi
Sent: Monday, 5 December 2011 9:25 AM
To: Karle Matt
Subject: RE: Noise - still

No problem.

There's now a new AO6 noise specialist in our division called Cate Puschmann.

Hopefully, once she is fully inducted, we'll try and come up with a "standardised method" of deriving a DA limit, that's a little easier to understand than that. Or even just an explanation note on using the guideline.

I'll make sure it gets distributed throughout the state.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Monday, 5 December 2011 9:20 AM
To: Yoshino Toshi
Subject: RE: Noise - still

Yeah Thanks Toshi – I see the 47 calculation in an email trail that diverged from this one.....I think I sent you a reply before you sent an additional reply – hence that 47dB(A) calculation email is not in the thread below. I've found that other email thread with the 47dB(A) calculation in it so the 47dB(A) makes sense again.

I'll have a chew through it all. Thanks very much for your assistance.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Monday, 5 December 2011 9:04 AM
To: Karle Matt
Subject: RE: Noise - still

Planning level of 44dB is in L90.

Planning for noise control guideline says to add 3dB to make it into LAeq. $44+3 = 47$.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

R

Environmental Services- Logan Scenic Rim Redlands
 Department of Environment and Resource Management
www.derm.qld.gov.au
 Department of Environment and Resource Management
 Corner Main and Vulture Streets, Woolloongabba Q
 PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:38 PM
To: Yoshino Toshi
Subject: RE: Noise - still

I know you will be gone for the week, but where did the 47dB(A) come from in your calculation?

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:31 PM
To: Karle Matt
Subject: RE: Noise - still

Yeah.
 Adding noise level x + noise level y is $10\log^{(10x/10+10y/10)}$.
 So $49+47=51$. (or close enough to)

This looks a lot more achievable...

On this note, I will have to knock off.
 Let me know if there are more questions. I will get back to you on Monday.

Toshi YOSHINO
 Senior Environmental Officer
 Ph: (07) 3896 3090
 E-mail: toshi.yoshino@derm.qld.gov.au
 Environmental Services- Logan Scenic Rim Redlands
 Department of Environment and Resource Management
www.derm.qld.gov.au
 Department of Environment and Resource Management
 Corner Main and Vulture Streets, Woolloongabba Q
 PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:26 PM
To: Yoshino Toshi
Subject: RE: Noise - still

So adding 47 and 49 = 51 – is that what you're saying?

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North

R

South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Friday, 2 December 2011 4:25 PM
To: Karle Matt
Subject: RE: Noise - still

Oops, I left one step out.
 Current existing LAeq without source noise is 49dB. Using
 algorithmic calculation, 47dB LAeq and 49 existing is 51dB(A).

So the limit of measured level should be set at 51dB(A).

Cheers,

Toshi YOSHINO
 Senior Environmental Officer
 Ph: (07) 3896 3090
 E-mail: toshi.yoshino@derm.qld.gov.au
 Environmental Services- Logan Scenic Rim Redlands
 Department of Environment and Resource Management
www.derm.qld.gov.au
 Department of Environment and Resource Management
 Corner Main and Vulture Streets, Woolloongabba Q
 PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Friday, 2 December 2011 4:00 PM
To: Yoshino Toshi
Subject: RE: Noise - still

It is a bit of a shocker of a site.....

A landfill exists. They are proposing an extension of the landfill, and a new Transfer Station. We are actually proposing not to approve the transfer station component of the proposal. It is within about 200m of residential homes, which are elevated that looking immediately down on the proposed transfer station. They have not identified all reasonable and practical measures to minimise noise. They are currently working on additional info for us to consider.

Re the landfill extension – it too is approximately 250m from residents at the closest point, but the topography is far more agreeable, and there is a strip of commercial premises in that 250m strip as a kinda separation. Given there is an existing landfill, it makes sense that the impact of landfilling be associated with a site already impacted by landfilling.

What is important, is that we strive to protect amenity, while still having conditions that can be complied with.

It would appear from the consultant report, predicted (not actual) noise emissions from the existing activity at the most affected residents is 53 Leq (1hr). Another report we have here from an objector who engaged his own noise consultants to undertake a noise investigation (which includes source noise) indicates L90 39dB(A), Leq 52dB(A), and L10 54dB(A).

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:36 PM

To: Karle Matt

Subject: RE: Noise - still

Cool, I had suspected there were an MCU and it wasn't purely a compliance thing.

Planning for noise control guideline does not work when any part of the existing noise environment is higher than the "objectives". It's a flaw that needs to be rectified in the practical application.

For a landfill with a steady state and intermittent noise, I would say a LAeq would capture it well.

What number is appropriate, it is difficult to say. Have you got the current LAeq level of the landfill's emission? I might try and work something out.

Also, what is the nearest receptor and what is in it's surroundings?

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 3:24 PM

To: Yoshino Toshi

Subject: RE: Noise - still

Yeah – thanks for the reply Toshi. I tried to make a long story short in my initial email to you which has lead to some confusion. There is an MCU for the landfill – to expand it – hence the reason for the consultant using the planning for noise control guideline. They get a similar level to ambient plus 5.

The existing DA has BG + 5dB(A). I understand LmaxadjT is the statistical average of all peaks from the source noise during time interval T. Given the low BG of 38 during the day, adding 5 to that low number still only gives a low number. I imagine a landfill would struggle to comply with such a low level. I'd also argue its not a fair number if the Leq and L10 of the BG are a fair bit higher.

What conditions have you seen that you think are good / fair / enforceable for an activity with some steady state and some intermittent bangs etc that you'd recommend?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:15 PM

To: Karle Matt

Subject: RE: Noise - still

Hi Matt,

Planning for noise control guideline is a tool for DERM to come up with a noise limit in a DA in case of a MCU. It would not apply to an existing ERA, unless they are planning to have a MCU.

For an existing ERA, the current DA limits would be the only thing that apply (well, along with all of EPA etc...).

If this DA states "BG +5dB(A) L_{Amax}-adj-T", that is what applies. I have no idea why the consultant is pulling out the planning for noise control guideline.

To work out the L_{Amax}-adj-T, you need to listen to all of the relevant peaks within the measurement period and note the levels. Average these levels statistically, and you get the L_{Amax}-adj-T level.

In the "background survey", there are probably some things in the environment that are raising the LA_{eq} and LA₁₀ (may be cicada, birds and other fauna?). The L_{Amax} would not necessarily end up louder than the LA_{eq} and LA₁₀ in these instances, as it only takes into account the peaks made by the ERA activity and discounts the birds and the bees and the other stuff.

If there is a plan for a MCU and we need to come up with a new LA_{eq} level, we may need to get crafty with the concept, given existing LA_{eq} and LA₁₀ being very high.

Regards,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 2:51 PM

To: Yoshino Toshi

Subject: Noise - still

Importance: High

Hi Toshi,

I have a question for you, about a landfill I am dealing with.

The landfill has the normal noise table, with authorised noise level being BG plus 5dB(A) measured as LmaxadjT. A consultant has done background noise monitoring in the absence of the source noise, and determines:

L90 – 38,
Leq – 49
L10 – 51
Lmax – 69

The consultant has also used the planning for noise control guideline, and has determined a planning noise level of 44dB(A). This also equates to the L90 plus 5dB(A). The consultant then modelled noise emissions, and determines lots of areas that exceed 44 dB(A), and hence the landfill is in non – compliance at many sensitive receptors.

What I don't understand is that, in the absence of the source noise, both the Leq and L10 are higher than the LmaxadjT that the client is authorised to emit.

Am I not understanding this properly?

Your thoughts appreciated?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Yoshino Toshi
Sent: Monday, 5 December 2011 4:01 PM
To: Karle Matt
Subject: RE: Noise - still

All good.
 Finally. Glad that's over. ☺

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Monday, 5 December 2011 3:15 PM
To: Yoshino Toshi
Subject: RE: Noise - still

Yeah – a stand alone condition saying no audible noise.

Thanks mate.

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Monday, 5 December 2011 3:08 PM
To: Karle Matt
Subject: RE: Noise - still

Sure, that looks good to me.

You will need to add a limit for outside of those hours though (no audible noise?).
 otherwise it could be taken as we are not setting a limit.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

R

From: Karle Matt
Sent: Monday, 5 December 2011 2:54 PM
To: Yoshino Toshi
Subject: RE: Noise - still

Like this? I would like to have something that reflects if the BG is higher for what ever reason, then the client has the benefit of that higher level.

**Schedule 1D – Table 1
 (Noise Levels)**

Time Period	Proponent Noise level at a 'Nuisance Sensitive Place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	47 dB(A), or background noise level plus 5 dB(A), whichever is the higher
Time Period	Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{A,eq\ adj\ T}$
7am - 6pm	50 dB(A) or background noise level plus 10 dB(A), whichever is the greater

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
 Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Monday, 5 December 2011 2:51 PM
To: Karle Matt
Subject: RE: Noise - still

Oh, I get what you mean now. I was a little confused because of a chat I had with Warren a couple of months ago too.

You are right. We shouldn't be prescribing an ambient level into this. So the limit will have to be 47dB LAeq as a proponent level.

Ambient LAeq (LAeq without the influence of the source) will have to be subtracted from the measured level in order to assess the source level. Ambient level fluctuates naturally, so it wouldn't have made sense in the previous method anyway.

Sorry for the mix up.

Toshi YOSHINO
 Senior Environmental Officer
 Ph: (07) 3896 3090
 E-mail: toshi.yoshino@derm.qld.gov.au
 Environmental Services- Logan Scenic Rim Redlands
 Department of Environment and Resource Management
www.derm.qld.gov.au
 Department of Environment and Resource Management
 Corner Main and Vulture Streets, Woolloongabba Q
 PO Box 2771, Brisbane QLD 4001

From: Karle Matt

R

Sent: Monday, 5 December 2011 2:44 PM
To: Yoshino Toshi
Subject: RE: Noise - still

Hmmmm. If we are prescribing an ambient + source of 51, then aren't we kinda prescribing a fixed BG level into the number?

If we prescribed BG as a number, that gives the client some certainty.

I'm getting more confused the more I think about it.

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Monday, 5 December 2011 2:41 PM
To: Karle Matt
Subject: RE: Noise - still

Well...

I'm not sure if "prescribing BG" is a legitimate methodology by our department.

It's either should be LAeq 47dB (proponent level) or LAeq 51dB (ambient level+source noise). According to the PFNCG

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Monday, 5 December 2011 2:29 PM
To: Yoshino Toshi
Subject: RE: Noise - still

So would it be simpler for me to prescribe BG as being Leq – 47, and that source is authorised BG +5 – as an Leq?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

R

From: Yoshino Toshi
Sent: Monday, 5 December 2011 2:26 PM
To: Karle Matt
Subject: RE: Noise - still

Oh, okay.

BG in this setting is 38dB LA90 (from your email earlier in the piece). So the limit will end up being 43dB LAeq.

The level that the PFNCG derives is a level 'the ERA' is allowed to make. So you need to either specify the level is a "proponent level" (measured level minus the environmental LAeq), or you need to set the level at measured level (straight from the meter without adjustment).

At the moment, none of the DAs actually specify this, and thus makes life difficult for the likes of me. It seems the standard interpretation is up to each and every consultant to make. We need to start specifying which it is.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt
Sent: Monday, 5 December 2011 2:19 PM
To: Yoshino Toshi
Subject: RE: Noise - still

OK – PFNCG determines Leq to be 47dB(A). Existing Leq is 49dB (A). Often, conditions prescribe BG plus 5 dB(A). What would be the limit authorised from the site if I prescribed BG plus 5 LAeq?

I guess I don't follow why we'd add PFNCG level of 47 and the actual level of 49 in deriving a noise limit for the ERA?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi
Sent: Monday, 5 December 2011 2:15 PM
To: Karle Matt
Subject: RE: Noise - still

Sorry, I don't quite follow what you mean...

Toshi YOSHINO

Senior Environmental Officer

R

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands
Department of Environment and Resource Management
www.derm.qld.gov.au
Department of Environment and Resource Management
Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Monday, 5 December 2011 2:12 PM

To: Yoshino Toshi

Subject: RE: Noise - still

Wouldn't I be better off prescribing an ambient bg of 47, and allowing the client to emit bg plus 5, making it 52?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Monday, 5 December 2011 2:11 PM

To: Karle Matt

Subject: RE: Noise - still

49dB is what the LAeq is currently without the development.
If we allow the new development to make 47dB, the outcome will be 51dB.

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands
Department of Environment and Resource Management
www.derm.qld.gov.au

Department of Environment and Resource Management
Corner Main and Vulture Streets, Woolloongabba Q
PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Monday, 5 December 2011 2:09 PM

To: Yoshino Toshi

Subject: RE: Noise - still

You'll hate me for asking another question Toshi. Sorry.

In the email below, you add the PFNC level of 47 and the actual ambient Leq of 49, and derive 51dB(A). Why did you add the 2 noises together? Isn't one a planning level and one an actual level?

R

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 4:25 PM

To: Karle Matt

Subject: RE: Noise - still

Oops, I left one step out.

Current existing LAeq without source noise is 49dB. Using
algorithmic calculation, 47dB LAeq and 49 existing is 51dB(A).

So the limit of measured level should be set at 51dB(A).

Cheers,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 4:00 PM

To: Yoshino Toshi

Subject: RE: Noise - still

It is a bit of a shocker of a site.....

A landfill exists. They are proposing an extension of the landfill,
and a new Transfer Station. We are actually proposing not to
approve the transfer station component of the proposal. It is within
about 200m of residential homes, which are elevated that looking
immediately down on the proposed transfer station. They have not
identified all reasonable and practical measures to minimise noise.
They are currently working on additional info for us to consider.

Re the landfill extension – it too is approximately 250m from
residents at the closest point, but the topography is far more
agreeable, and there is a strip of commercial premises in that
250m strip as a kinda separation. Given there is an existing landfill,
it makes sense that the impact of landfilling be associated with a
site already impacted by landfilling.

What is important, is that we strive to protect amenity, while still
having conditions that can be complied with.

It would appear from the consultant report, predicted (not actual)
noise emissions from the existing activity at the most affected
residents is 53 Leq (1hr). Another report we have here from an
objector who engaged his own noise consultants to undertake a
noise investigation (which includes source noise) indicates L90

R

39dB(A), Leq 52dB(A), and L10 54dB(A).

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:36 PM

To: Karle Matt

Subject: RE: Noise - still

Cool, I had suspected there were an MCU and it wasn't purely a compliance thing.

Planning for noise control guideline does not work when any part of the existing noise environment is higher than the "objectives". It's a flaw that needs to be rectified in the practical application.

For a landfill with a steady state and intermittent noise, I would say a LAeq would capture it well.

What number is appropriate, it is difficult to say. Have you got the current LAeq level of the landfill's emission? I might try and work something out.

Also, what is the nearest receptor and what is in it's surroundings?

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 3:24 PM

To: Yoshino Toshi

Subject: RE: Noise - still

Yeah – thanks for the reply Toshi. I tried to make a long story short in my initial email to you which has lead to some confusion. There is an MCU for the landfill – to expand it – hence the reason for the consultant using the planning for noise control guideline. They get a similar level to ambient plus 5.

The existing DA has BG + 5dB(A). I understand LmaxadjT is the statistical average of all peaks from the source noise during time interval T. Given the low BG of 38 during the day, adding 5 to that low number still only gives a low number. I imagine a landfill would struggle to comply with such a low level. I'd also argue its not a fair number if the Leq and L10 of the BG are a fair bit higher.

What conditions have you seen that you think are good / fair /

R

enforceable for an activity with some steady state and some intermittent bangs etc that you'd recommend?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Yoshino Toshi

Sent: Friday, 2 December 2011 3:15 PM

To: Karle Matt

Subject: RE: Noise - still

Hi Matt,

Planning for noise control guideline is a tool for DERM to come up with a noise limit in a DA in case of a MCU. It would not apply to an existing ERA, unless they are planning to have a MCU. For an existing ERA, the current DA limits would be the only thing that apply (well, along with all of EPAct etc...). If this DA states "BG +5dB(A) L_{Amax}-adj-T", that is what applies. I have no idea why the consultant is pulling out the planning for noise control guideline.

To work out the L_{Amax}-adj-T, you need to listen to all of the relevant peaks within the measurement period and note the levels. Average these levels statistically, and you get the L_{Amax}-adj-T level.

In the "background survey", there are probably some things in the environment that are raising the LA_{eq} and LA₁₀ (may be cicada, birds and other fauna?). The L_{Amax} would not necessarily end up louder than the LA_{eq} and LA₁₀ in these instances, as it only takes into account the peaks made by the ERA activity and discounts the birds and the bees and the other stuff.

If there is a plan for a MCU and we need to come up with a new LA_{eq} level, we may need to get crafty with the concept, given existing LA_{eq} and LA₁₀ being very high.

Regards,

Toshi YOSHINO

Senior Environmental Officer

Ph: (07) 3896 3090

E-mail: toshi.yoshino@derm.qld.gov.au

Environmental Services- Logan Scenic Rim Redlands

Department of Environment and Resource Management

www.derm.qld.gov.au

Department of Environment and Resource Management

Corner Main and Vulture Streets, Woolloongabba Q

PO Box 2771, Brisbane QLD 4001

From: Karle Matt

Sent: Friday, 2 December 2011 2:51 PM

To: Yoshino Toshi

Subject: Noise - still

Importance: High

R

Hi Toshi,

I have a question for you, about a landfill I am dealing with.

The landfill has the normal noise table, with authorised noise level being BG plus 5dB(A) measured as L_{maxadjT}. A consultant has done background noise monitoring in the absence of the source noise, and determines:

L₉₀ – 38,
L_{eq} – 49
L₁₀ – 51
L_{max} – 69

The consultant has also used the planning for noise control guideline, and has determined a planning noise level of 44dB(A). This also equates to the L₉₀ plus 5dB(A). The consultant then modelled noise emissions, and determines lots of areas that exceed 44 dB(A), and hence the landfill is in non – compliance at many sensitive receptors.

What I don't understand is that, in the absence of the source noise, both the L_{eq} and L₁₀ are higher than the L_{maxadjT} that the client is authorised to emit.

Am I not understanding this properly?

Your thoughts appreciated?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

MBH2012/55

MBH2951-3

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

GDE
2MK



PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

Our Ref: IDW:CAH00316

6 January 2012

The Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management
PO Box 101
MARYBOROUGH QLD 4650

Attention: Mr Matt Karle
Principal Environmental Officer (Wide Bay Burnett)

Dear Sir

**RE: BONNICK ROAD WASTE MANAGEMENT
FACILITY REDEVELOPMENT APPLICATION
(LANDFILL COMPONENT) –
RESPONSE FOLLOWING REVIEW OF
PROPOSED CONDITIONS**

I refer to your recent telephone conversations with Council's Acting Director Community Services – Mr Ian Wolff regarding the Bonnick Road Waste Management Facility redevelopment application.

Further to these conversations, please be advised that Council has reviewed the proposed conditions of approval for the land fill component of the application.

This review has revealed numerous proposed conditions that are of concern to Council if formally issued as part of the development approval. Proposed conditions that are of concern are detailed in the attached documentation.

Council appreciates that the Department of Environment and Resource Management (DERM) has indicated that it is willing to discuss and negotiate conditions prior to their formal issue and accordingly, representatives from DERM including yourself and Regional Manager – Mr Tim Brain are invited to attend a meeting with Council representatives and relevant consultants to discuss concerns surrounding certain proposed conditions.

It is proposed that this meeting be held on Wednesday, 18 January 2012 at Council's Community Services Building located at 24 Mellor Street, Gympie commencing with lunch at 12 noon and discussion to follow. It would be appreciated if you could please confirm with Mr Wolff the availability of Mr Brain and yourself for this meeting.

RECEIVED

11 JAN 2012

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

.../2

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

- 2 -

Should you require further information in respect of this matter, please do not hesitate in contacting Mr Ian Wolff of Council's Community Services Directorate on telephone (07) 5481 0611.

Yours faithfully

CTPI 49-Sch4-Signat

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER

Enc

Condition No.	Condition Wording	Required Amended Condition/ Change	Justification
A5-1	<p>You are required to investigate alternative waste management practices to maximise, where possible, recycling and diversion of waste from being disposed to landfill.</p> <p>For the purpose of satisfying this condition in accordance with the waste management hierarchy and principles of the Environmental Protection (Waste Management) Policy 2000, you must conduct:</p> <ul style="list-style-type: none"> (i) a strategic waste management assessment, and include as a target, an aim to achieve a recycling landfill diversion rate of at least 70%; and (ii) reporting actual recycling diversion rates and any progress made in achieving the 70% target to the administering authority with each annual return. 		<p>Require clarification:</p> <p>What is timeframe for achieving the "recycling landfill diversion rate of at least 70%"? Is it by 2020 in line with the Queensland Waste Strategy?</p> <p>The deliverable strategy will not be available to report to DERM on progress with the first annual return (for 2012/2013) as the strategy will not be completed by this date. The WRR Act specifies 1 December 2012 as the deadline for developing WRR Plans.</p>
A6-1	<p>Prior to cessation of waste deposition, any landfill unit ceases, a final cover system to the landfill unit must be progressively installed such that when waste deposition into the landfill unit ceases:</p> <ul style="list-style-type: none"> (i) infiltration of water into the landfill unit is prevented; (ii) the likelihood of any erosion occurring to either the final cover system or the land filled materials is prevented; and (iii) un-controlled release of landfill gas is actively managed. 	<p>Typo – replace "t" with "to".</p> <p>Typo – delete "ceases".</p> <p>Typo – delete "-" from "un-controlled"</p> <p>Delete "final".</p> <p>Replace "prevented" (mentioned twice) with "minimised".</p>	<p>Unduly onerous. Council uses intermediate covers, graded to shed clean stormwater runoff, while the site is still in use, prior to final capping. Council intends to close final capped areas off to vehicular traffic to maintain the integrity of the capping (where a sealed bitumen surface is not installed). Until such time, intermediate covers will be used.</p> <p>Council cannot prevent infiltration, can only minimise it. Any soil will allow some infiltration. Likewise, the likelihood of erosion cannot be prevented, only minimised and eroded areas restored as soon as practicable.</p>
A9-1	<p>Telephone the Department of Environment and Resource Management Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval</p>	<p>Telephone the Department of Environment and Resource Management Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval</p>	<p>Council requires the opportunity to rectify minor releases that are retained to the site and can be quickly and easily rectified.</p>
A9-2	<p>Notwithstanding condition (A9-1), within 10 days of becoming aware of any release of contaminants not in accordance with the conditions of this approval, provide the following written advice to the administering authority:</p> <ul style="list-style-type: none"> ▪ the full analysis results; and ▪ details of investigation or corrective actions taken; and ▪ results of any subsequent analysis carried out to verify the success of any corrective actions taken. ▪ the name of the operator, including their approval / registration number; ▪ the name and telephone number of a designated contact person; ▪ quantity and substance released; ▪ any vehicle involved and its registration details; 	<p>Notwithstanding condition (A9-1), within 10 days of becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval, provide the following written advice to the administering authority:</p> <ul style="list-style-type: none"> ▪ the full analysis results (if received); and ▪ details of investigation or corrective actions taken (completed to date); and ▪ results of any subsequent analysis carried out to verify the success of any corrective actions taken (if received). ▪ the name of the operator, including their approval / registration number; ▪ the name and telephone number of a designated contact person; ▪ quantity and substance released; ▪ any vehicle involved and its registration details; 	<p>It is probable that analytical results may not be received from the laboratory within 10 days of becoming aware of any release. Furthermore, it is probable that investigative/corrective actions may be ongoing.</p>

	<ul style="list-style-type: none"> person/s involved; the location and time of the event / release or monitoring result; the suspected cause of the event or release; a description of the effects of the release on the receiving environment. 	<ul style="list-style-type: none"> person/s involved; the location and time of the event / release or monitoring result; the suspected cause of the event or release; a description of the effects of the release on the receiving environment. 	
A11-1	<p>Erect at the entrance and/or other prominent locations, signs maintained in good repair, written in a language appropriate for the user population and giving the following information:</p> <ul style="list-style-type: none"> the name of the site and a telephone contact number for site information; that disposal of waste is prohibited without the direction or permission of the landfill operator; and details of the facility opening hours, and the nearest facilities where persons can lawfully dispose of waste. 	Delete "details of the facility opening hours, and the nearest facilities where persons can lawfully dispose of waste".	Doesn't apply to this facility. The Bonnick Road facility has the longest opening hours of all facilities and is the preferred disposal point.
B1-1	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.	The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place.	"Environmental nuisance" is defined in the EP Act.
B4-1	<p>The assessment of compliance with the methane limits at a height of 50 mm above the final and intermediate cover surface of the landfill unit prescribed by (B3-2) must be undertaken at the following locations:</p> <ol style="list-style-type: none"> on a grid pattern where the grid lines are no more than 50 m apart; and at any other locations where visual observations indicate potentially elevated concentrations of landfill gas, for example cracks, seeps in cover and distressed vegetation. 	<p>The assessment of compliance with the methane limits at a height of 50 mm above the final and intermediate cover surface of the landfill unit prescribed by (B3-2) must be undertaken at the following locations:</p> <ol style="list-style-type: none"> on a grid pattern where the grid lines are no more than 100 m apart; and at any other locations where visual observations indicate potentially elevated concentrations of landfill gas, for example cracks, seeps in cover and distressed vegetation. 	100m grid after the first round of results if they are favourable.
C1-1	Only clean, uncontaminated stormwater runoff from final landforms that are fully vegetated and rehabilitated is permitted for direct release from the approved premises.		Clarification required: What is "fully vegetated"? i.e. 70% vegetation cover?
C1-2	Stormwater runoff from disturbed areas must be directed to a sedimentation pond, which must be sufficiently constructed, operated and maintained to contain the runoff expected from a 24 hour storm with an average recurrence interval of 1 in 10 years.	Stormwater runoff from disturbed areas within the new landfill cell must be directed to a sedimentation pond, which must be sufficiently constructed, operated and maintained to contain the runoff expected from a 24 hour storm with an average recurrence interval of 1 in 10 years.	There is not enough room for a pond capable of containing run-off from the full site (old and new landfill cells). This should only relate to the new cell.
C1-4	<p>Settled/treated stormwater runoff from the sedimentation pond must only be released in compliance with the release limits listed in Schedule 1C Table 1 from the following discharge location:</p> <p>W2: overflow from sedimentation pond to a tributary of Peter and Paul Gully.</p>		Clarification required: No release limits are specified in the Table. Can not respond without knowing the release limits.
Schedule 1C – Table 1	(Release Limits)	Change pH monitoring frequency to 6 monthly.	Weekly monitoring in the event of release from all points: what is the aim of this monitoring?

		<p>Remove DO as a parameter OR retain DO with no monitoring frequency as it appears in the draft conditions.</p> <p><i>The release limits should be determined after a period of baseline sampling which includes the upstream and downstream locals in Peter and Paul Gully.</i></p>	<p>presumably it is to monitor suspended solids and the efficiency of the sedimentation pond in clarifying (settling). If so, SS is an appropriate parameter.</p> <ul style="list-style-type: none"> Why is pH listed as a parameter to be monitored at each release? pH is not indicative of any particular issue associated with the sedimentation pond or the upstream/downstream gully and can be strongly influenced by co-founding factors. It would be more appropriate and descriptive to change the frequency of pH monitoring to 6 monthly to correlate with the other physio-chemical parameters. <p>6 monthly monitoring – presumably longitudinal monitoring to identify trends over time.</p> <p>Why is DO listed as a parameter for long term monitoring? DO is strongly influenced by co-founding factors. DO concentrations are affected by:</p> <ul style="list-style-type: none"> water temperature photosynthesis by aquatic plants respiration by aquatic plants and animals breakdown of organic materials in the water water movement and mixing flow (discharge) salinity altitude depth daily and seasonal cycles presence of nutrients chemicals in the water thermal contamination removal of vegetation <p>If the reason DO is included is to identify hypoxia (oxygen depletion) due to algal blooms, the nutrient load of the water will already be monitored by monitoring nitrate. If the reason is to identify physio-chemical change that influences oxygen saturation, this is already being monitored by other parameters including EC.</p> <p>Advice from AGE Consultants: <i>"Schedule 1C – Table 1 – does not specify the release limits. The release limits should be determined after a period of baseline sampling which includes the upstream and downstream locals in Peter and Paul Gully. It is very important to ensure that Council does not get tied into inappropriate conditions."</i></p>
C3-1	<p>An investigation into the successful operation of both the existing landfill and the landfill extension as a Bioreactor must be undertaken and completed within 2 months from the effective date of this Development Approval. The investigation must include (but not necessarily be limited to) the following matters:</p> <ul style="list-style-type: none"> anticipated goals to be derived from operating the landfill as a bioreactor; measures and procedures that will minimise the generation of leachate; existing leachate quality for the parameters stated in Schedule C Table 2 estimates of existing leachate quantity; leachate quality and quantity that ensures the landfill effectively operates as a bioreactor; estimated changes in leachate quality and quantity during the life of the landfill that 	<p>An investigation into the successful operation of both the existing landfill and the landfill extension as a Bioreactor must be undertaken and completed within 12 months from the effective date of this Development Approval. The investigation must include (but not necessarily be limited to) the following matters:</p> <ul style="list-style-type: none"> anticipated goals to be derived from operating the landfill as a bioreactor; measures and procedures that will minimise the generation of leachate; existing leachate quality for the parameters stated in Schedule C Table 2 estimates of existing leachate quantity; leachate quality and quantity that ensures the landfill effectively operates as a bioreactor; estimated changes in leachate quality and quantity during the life of the landfill that 	<p>Advice from AGE Consultants: <i>"Two months does not seem sufficient to undertake the investigation – suggest ask for 12 months"</i></p> <p>Council has been recirculating leachate in the existing landfill for years. The new cell will hardly be built let alone full enough to for recirculation in two (2) months. Two (2) months for this investigation is not achievable.</p>

	<p>demonstrates the landfill is effectively operating as a bioreactor;</p> <ul style="list-style-type: none"> changes in leachate quality and quantity that would suggest the landfill is not effectively operating as a bioreactor; methods of leachate recycling that maximise the successful performance of the landfill as a bioreactor; circumstances where leachate must be removed from the site (quality or quantity); disposal and treatment options for leachate that must be removed from the site; assess of the capability of any external disposal or treatment facility that may receive leachate removed from the site, taking into consideration (among other things): <ul style="list-style-type: none"> a) the treatment or disposal capability of the facility; b) any environmental safeguards inherent in the selected treatment or disposal facility; and c) any environmental discharges from the selected treatment or disposal facility to the environment, and whether receipt of leachate from the landfill will affect the performance of the facility, and / or cause harm to the receiving environment. 	<p>demonstrates the landfill is effectively operating as a bioreactor;</p> <ul style="list-style-type: none"> changes in leachate quality and quantity that would suggest the landfill is not effectively operating as a bioreactor; methods of leachate recycling that maximise the successful performance of the landfill as a bioreactor; circumstances where leachate must be removed from the site (quality or quantity); disposal and treatment options for leachate that must be removed from the site; assess of the capability of any external disposal or treatment facility that may receive leachate removed from the site, taking into consideration (among other things): <ul style="list-style-type: none"> a) the treatment or disposal capability of the facility; b) any environmental safeguards inherent in the selected treatment or disposal facility; and c) any environmental discharges from the selected treatment or disposal facility to the environment, and whether receipt of leachate from the landfill will affect the performance of the facility, and / or cause harm to the receiving environment. 	
C3-4	Results of the investigation required by Condition (C3-1) and the leachate management and monitoring procedure required by Condition (C3-2) must be submitted to the administering authority within 3 months of the effective date of this Development approval.	Results of the investigation required by Condition (C3-1) and the leachate management and monitoring procedure required by Condition (C3-2) must be submitted to the administering authority within 18 months of the effective date of this Development approval.	CTPI 49-Sch4-N advice: "We should ask for an 18 month time frame for the recirculation report so that we can get some waste in the new cell and connect the old landfill into it".
Schedule C – Table 2	(Leachate Quality Parameters)		Appropriate (in Tanya's opinion) – do not believe further parameters should be included in the approval (although Council can continue testing for the additional parameters). Advice from AGE Consultants: "Suggest add all parameters in Schedule 1C – Table 3 to Schedule C – Table 2"
C4-2	Leachate collected by the leachate collection system under the landfill extension must not be returned to the existing landfill.	Delete this condition.	Recirculation through the existing landfill must be retained as an approved method of leachate management. Recirculation wells were recently installed for this specific purpose. CTPI 49-Sch4-N advice: "This is a problem as it does not allow recirculation in the old landfill. This means we probably cannot recirculate leachate for about 5 years when there will be sufficient waste in the new cell. We should ask for this condition to be deleted. The basis would be that we have been successfully recirculating in the old landfill and that we are relying on it to treat the early leachate from the new cell".
C5-1	Waste must not be deposited within 2m of underlying groundwater.	Delete condition	CTPI 49-Sch4-N advice: "We cannot achieve 2m separation everywhere. We should ask for 1.5m separation".

			<p>e from AGE Consultants:</p> <p>"It will not be possible to achieve a 2m separation between the waste and the underlying groundwater, due to the presence of the groundwater depressurisation system – suggest try and remove this condition".</p> <p>Currently, there is no other option for disposal of liquid collected by the depressurisation system.</p> <p>CTPI 49-Sch4-1 advice:</p> <p>"This is unreasonable. It is only groundwater and we rely on discharge to Peter and Paul Gully in our design. The clause should be amended to say we can discharge if the groundwater is found to be contaminated or it poses environmental harm to the creek".</p> <p>Advice from AGE Consultants:</p> <p>"Groundwater has to be discharged - there is no other option. Suggest this condition be amended to allow discharge of groundwater from the depressurisation system if it meets the requirements of Schedule 1C – Table 1".</p>
C5-8	Any liquid collected by the depressurisation system must not be released to Peter and Paul Gully.	<p>Liquid collected by the depressurisation system must only be released in compliance with the release limits listed in Schedule 1C Table 1 from the following discharge location:</p> <p>W5: liquid from the depressurisation system to a tributary of Peter and Paul Gully.</p>	
Schedule C – Table 3	(Monitoring requirements for Groundwater Depressurisation System)	<p>Change laboratory parameters to those outlined in Schedule 1C – Table 3.</p> <p>Include TDS as a parameter.</p> <p>Move CO₃ to the anions row.</p>	<p>Advice from AGE Consultants:</p> <p>"The laboratory parameters for the groundwater samples from the depressurisation system outlined in Schedule C – Table 3 should be exactly the same as the testing required from the monitoring bores outlined in Schedule 1C – Table 3. Schedule C – Table 3 should be updated to reflect Schedule 1C – Table 3".</p> <p>"TDS analysis should be added to both tables"</p> <p>"Schedule 1C – Table 3 – move CO₃ to the anions row"</p>
Schedule 1C – Table 3	(Groundwater Quality Monitoring Requirements)	<p>During landfilling –</p> <ul style="list-style-type: none"> Change the monitoring frequency of pH and EC to Quarterly Remove redox parameters Change the monitoring frequency of Organics, Total Organochlorines and Total Organophosphates to Annually Include TDS Move CO₃ to the anions row <p>Pre-landfilling baseline monitoring –</p> <ul style="list-style-type: none"> Remove redox parameters Change the monitoring frequency of Organics, Total Organochlorines and Total Organophosphates to Annually Change the monitoring frequency to quarterly for all remaining parameters. Include TDS Move CO₃ to the anions row 	<p>During landfilling:</p> <ul style="list-style-type: none"> It is too onerous and inefficient for a pH and EC to be monitored monthly during landfilling (as to conduct this, bores will need to be purged for each monitoring event, requiring a pump and EC meter hire and labour). These parameters can reasonably be included in the Quarterly suite of parameters to be monitored during landfilling. Redox potential is not a necessary parameter. It is not necessary to monitor for Organics, Total Organochlorines and Total Organophosphates quarterly. To date, these parameters have never been identified to be present in the groundwater at detectable levels, and therefore this requirement should be relaxed to annual monitoring. <p>Monthly prior to the commencement of the landfill extension:</p> <p>It is too onerous and inefficient for groundwater to be monitored monthly prior to the commencement of the landfill extension, for the above reasons. It is unlikely that contamination of groundwater will occur prior to and during the construction phase. If the reason for this requirement is to collect baseline data, Council already collects groundwater monitoring data on a quarterly basis from this site – this data, already supplied to DERM, should be taken as the baseline groundwater quality.</p> <p>Advice from AGE Consultants:</p> <p>"TDS analysis should be added to both tables"</p> <p>"Schedule 1C – Table 3 – move CO₃ to the anions row"</p>
C9-2	Soils and other materials used in the construction of any waste disposal cells or	Change numbering to Schedule 1C - Table 4	Is the numbering of this table correct? I believe this refers to the table currently labelled as Table 4 (Permeabilities and Special Requirements for Landfill

	subcells, above ground embankments, se pond and final cover must achieve an in situ hydraulic conductivity which is sufficiently low and be of sufficient thickness so as to prevent or minimise the release of contaminants. As a minimum, permeabilities for various landfill features must at least comply with the corresponding limits specified in Schedule 1C – Table 3 .		ires).
Schedule 1C – Table 4	(Permeabilities and Special Requirements for Landfill Features)	<p>Change the minimum permeability (m sec^{-1}) and minimum thickness for <u>Geosynthetic Clay Liner</u> to "the equivalent of 600mm of clay permeability 1×10^{-9}".</p> <p>Change the minimum permeability (m sec^{-1}) for the <u>Base and walls of sediment pond</u> to "1×10^{-7}".</p> <p>Delete "cover must be applied following the last application of waste for the day" and provide an exception to "daily landfill cover" for waste not being covered on a Saturday.</p>	<p>CTPI 49-Sch4-1 advice: <i>"The GCL section has a clay lines specification. This needs to be changed to say the GCL must be equivalent to 600mm of clay permeability 1×10^{-9}".</i> <i>"Requiring the sediment pond to be constructed from and lined with clay at 1×10^{-9} is unreasonable. The pond only holds dirty water and we do not have enough good clay for this construction. We should request that the clause be changed to say low permeability material 1×10^{-7}".</i></p> <p>This condition is not able to be complied with between the hours of 3pm to 5pm on weekdays (when the plant operator is gone for the day) and on weekends. Typically the waste is covered once only on weekends (on Sunday mornings).</p>
D1-1	Noise from activities must not cause an environmental nuisance at any noise affected premises .	Change "noise affected premises" to "nuisance sensitive place".	No definition is provided for "noise affected premises". The definitions contained in Schedule H refer to a "nuisance sensitive place".
D1-5	In the event noise monitoring is required by the Administering Authority, noise from the approved activity must not exceed the levels specified in Schedule D – Table 1 at any nuisance sensitive or commercial place.		Appropriate
Schedule D – Table 1	(Noise Levels)	<p>Replace proposed noise levels in Schedule D – Table 1 with the following noise levels.</p> <p>Schedule D – Table 1 (Noise Levels) Noise level at a 'Nuisance Sensitive Place' measured as the $L_{A,eq} \text{ adj } 1\text{hr}$</p> <p>7am-6pm – Background noise level plus 5 dB(A) 6pm-10pm – Background noise level plus 5 dB(A) 10pm-7am – Background noise level plus 3 dB(A)</p> <p>Noise level at a 'Commercial place' measured as the $L_{A,eq} \text{ adj } 1\text{hr}$</p> <p>7am-6pm – Background noise level plus 10 dB(A) 6pm-10pm – Background noise level plus 10 dB(A) 10pm-7am – Background noise level plus 8 dB(A)</p>	<p>The proposed noise levels are unduly onerous.</p> <p>The amended noise levels reflect current conditions governing noise emissions associated with operations at the Bonnick Road Waste Management Facility (refer to Schedule 2D – Noise and vibration – page 15 of Authority No. CM0309).</p> <p>Existing noise level parameters can reasonable be adhered to without the need to impose more stringent conditions that realistically, may not be achievable.</p> <p>Council takes every practicable precaution to minimise noise emissions from the site and a considerable concession has already been made by Council ceasing the mulching of green waste at the site.</p>
D1-6	No audible noise from the approved premises is authorised (including the use of vehicles, plant and equipment) outside the hours 5:00pm to 7:00am Monday to Friday, and 3:00pm to 10:00am Saturday and Sunday.	<p>Delete condition entirely as it is covered in the amended condition D1-5 or amend condition as follows:</p> <p>No noise from the approved premises must be audible at a nuisance sensitive place or</p>	<p>This condition is unduly onerous and operationally unviable.</p> <p>Particular concerns surround pushing waste after 10:00am on a Saturday or Sunday.</p> <p>The facility is open seven (7) days a week including most public holidays. This</p>

		commercial place outside of the hours of 6:30am and 5:30pm on any day.	y services the growing city of Gympie. Council needs to be afforded the opportunity to push, compact and cover waste at the site for public health and safety reasons outside of opening hours. The location of where noise must be audible from should be clearly stated in the condition to remove any ambiguity.
D2-1	In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: <ul style="list-style-type: none"> background noise level; LAeq, adjT, LAmaz, adj, T, LA10, adjT 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. 	In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance, and the results notified within 14 days to the administering authority (or within 14 days of receiving results from a consultant). Monitoring must include: <ul style="list-style-type: none"> background noise level; LAeq, adjT, LAmaz, adj, T, LA10, adjT 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. 	Council needs to be afforded some leniency with the timeframe if engaging a third party to undertake noise monitoring.
D3-1	In the event noise emissions from the approved activity exceeds noise limits prescribed by Condition (D1-3) you must, within one week, develop a noise management plan to assist resolve the complaint. The noise management plan must address at least, but not be limited to, the following matters: <ol style="list-style-type: none"> identification of component noise sources and activities at the place(s) which impact on nuisance sensitive places; the measured level of these noise sources and activities at nuisance sensitive places; the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive places; the predicted reduction in noise at nuisance sensitive places by implementing these measures; time frame for completion of the work proposed; any necessary community liaison and consultation; and any training requirements for staff in noise reduction practices. 	Change "Condition (D1-3)" to "Condition (D1-5)". Delete "within one week" (thus removing the timeframe for this decision to be made on a case-by-case basis at the discretion of the administering authority) OR replace "one week" with "one month" (allowing reasonable time for the task to be undertaken).	Cross references wrong condition – should be D1-5. It is unrealistic for Council to develop a noise management plan within one week. It is possible that a consultant would be engaged for provide specialist advice, and that works may be required & funds need to be allocated. In this respect, the development of a noise management plan will exceed one week. It is more realistic to appoint a timeframe, such as a month, or delete the timeframe altogether and leave it up to the discretion of the administering authority on a case-by-case basis.
D3-3	After the Administering Authority has commented on the draft Noise Management Plan, the registered operator must have due regard to any comments made by the administering authority, and must implement the plan as soon as practical.	Typo – change to "practicable".	

E1-1	Within 3 months from the commencement of this Development Approval, waste disposal to the existing landfill must cease, and all waste disposal at the approved premises must be directed to the lined landfill extension.	Delete condition.	reasonable timeframe in which to fully construct and commence use of the new landfill cell. CONFER WITH GRAYDEN CURRY. CTPI 49-Sch4-N advice: "This is unreasonable. We have to achieve a suitable closure profile on the old landfill. Filling should continue until a suitable closure profile is achieved. They could ban putrescible as you intend to close out the old landfill with householder waste only".
E1-4	Any limited regulated waste disposed of at the landfill must only be in a solid form	Delete condition	CTPI 49-Sch4-N advice: "We cannot comply as liquid regulated waste may be present in the domestic stream comingled".
E1-6	Notwithstanding any condition of this approval, you shall not cause, permit or allow deposition of the following waste materials in the landfill unit: <ul style="list-style-type: none"> liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity; hot ash; material that is smouldering or aflame; material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises); radioactive wastes; explosives; ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction; tyres; asbestos; contaminated soil; treatment tank sludge or residues; biosolids; grease trap wastes; and green waste 	Delete "liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity". Delete "material that is smouldering or a flame". Delete "asbestos". Delete "contaminated soil". Contaminated soil will be accepted in accordance with DERM guidelines for lined landfills. Delete "treatment tank sludge or residues". Delete "green waste" and "tyres"	Council has in the past received coffee sludge from Nestle for disposal. This is a low hazard regulated waste produced by a food processing activity (ERA?). Also, Council receives alum sludge from its water treatment plants for disposal at the facility. Council accepts police seized material to be destroyed under police supervision (by incineration) and buried on the site. It is unreasonable for asbestos not to be accepted as the disposal of asbestos material (an inert material) at this facility does not pose any risk of environmental harm (or public health risk). Contrary, the foreseeable consequences of not allowing disposal of asbestos material at this site will increase the risk of environmental harm (illegal dumping) and public health risk (unsafe disposal in wheelie bins which end up on the tip-face, asbestos material left lying around the home). It is unreasonable to expect residents and businesses to transport asbestos waste for disposal to another facility which would be at least a 20 minute drive from Gympie, or to have the asbestos material transported to Swanbank. Furthermore, Bonnick Road Waste Management Facility is the only facility manned full-time by a Council plant operator – this means asbestos material (although accepted by appointment only) can be dealt with immediately in the event that it comes to the facility without an appointment. Although Council does not accept contaminated soil in most circumstances, there may be situations where it can be accepted. The new landfill cell will be a fully lined and admission standards exist, therefore contaminated soil should be allowed. Council receives residue waste (the screenings) from its sewage treatment plants for disposal at the facility. No other treatment tank sludge or residues are accepted for disposal. Whilst Council endeavours to process green waste for beneficial reuse, Council has no option but to landfill green waste that is not able to be shredded (mostly due to size limitations of the shredding plant). Furthermore, it is not always practicable to recover small amounts of green waste or tyres that are inappropriately disposed on the tip-face comingled or disposed of within residential wheelie bins.
E1-7 Schedule E – Table 1	(Special Requirements for Waste Types)	Delete "food processing waste".	Council has in the past received coffee sludge from Nestle for disposal. This is a low hazard regulated waste produced by a food processing activity.
E1-8	All exposed waste must be covered each day following the last deposition of wastes in the	Delete "following the last deposition of wastes in the landfill".	This condition is not able to be complied with between the hours of 3pm to 5pm on weekdays (when the plant operator is gone for the day) and on weekends.

	landfill and comply with the requirements cover specified in Schedule C Table 4.	Provide an exception for waste not being covered on a Saturday.	ally the waste is covered once only on weekends (on Sunday mornings).
E3-1	Keep and maintain records of source, volumes and composition of all waste types accepted at the premises and report these values to the administering authority with each annual return.	Delete condition.	The WRR Act already requires collection and reporting of waste tracking information to DERM which will be conducted monthly through QWOLS. Furthermore, an annual waste report (statistics) is submitted to DERM following the completion of each financial year. It is unduly onerous to submit this same information with the annual return.
E5-1	The holder of this development approval must not: (i) burn waste at or on the place to which this development approval relates; nor (ii) allow waste to burn or be burnt at or on the place to which this development approval relates nor (iii) remove waste and burn such waste elsewhere.	Delete condition	Council accepts police seized material to be destroyed under police supervision (by incineration) and buried on the site.

Karle Matt

From: Bob Fredman [Bob.Fredman@gympie.qld.gov.au]

Sent: Friday, 6 January 2012 4:22 PM

To: Karle Matt

Subject: Re: Bonnick Road

Thanks. I would have been very concerned they used the term "propose to refuse" at this stage. It is inappropriate language which is not conducive to reaching a solution to a very serious problem.

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 4/1/12 2:42 PM >>>

Hello Ian,

Thanks for your call earlier today. For clarity, the following confirms our discussion:

1. DERM provided some Draft conditions relating to the Bonnick Road landfill application to GRC in December 2011.
2. The draft conditions proposed to refuse the transfer station and approve the landfill subject to conditions (a part approval under SPA 2009).
3. DERM seeks comment from GRC regarding those draft conditions.
4. DERM has since received additional supporting information from GRC for the transfer station.
5. DERM will assess the information submitted relating to the transfer station as a priority.
6. DERM will provide a draft of any conditions proposed.
7. Timing will dictate, but it would be preferable for DERM to receive comments from GRC about the draft landfill conditions asap and prior to any additional or final draft conditions (which may include both the landfill and the transfer station) being provided to GRC for final comment.
8. The current decision due date is 31st January 2012. Where further consultation is required between parties, DERM will be agreeable to an extension of the decision making period if necessary and / or desired by GRC.

Hopefully you concur with the above summary?

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

+-----+
Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water
+-----+

R

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

OUTGOING APPROVALS CHECKLIST

This checklist aims to provide consistency within the regions in ensuring that the Environmental Support Officers are ensuring the same key critical information is actioned when finalising applications.

Project Officer: Matt Karle

Reviewing Officer: Tim Brain
DUE DATE:

1. Applicant Name:	<u>Gympie Regional Council</u>
2. Project Number:	<u>221737</u>
3. Permit Number/s: (To be assessed by Environmental Services)	<u>SPCEOA17310</u>
4. Premises/Site Address:	<u>Lot 542 MCH801863</u>
5. Registered Address:	
6. Postal Address:	
7. Application Type Details: (E.g. ERA Nos. or type of works) ☒ ERA ☐ Marine Park ☐ Coastal ☐ Mining	<u>MCU - ERA</u>
8. Approval Type ☐ Extension ☐ Info. Request ☒ Final ☐ Compliance Issue	Reason (if applicable):
9. File Number:	<u>MBH2951</u>

DECISION: ☒ Approved ☐ Deferred ☐ Not Approved

Delegates Signature: see notice Decision Date: 03/02/12 Date Emailed: 03/02/12 ^{faxed}

Registered Post No.: 483702746016 Date Posted: 06/02/12
483702747013

All copying to be double sided

DO NOT send out any internal memos/assessments/checklists and "Multi" application responses are to be issued collectively by the Planning & Assessment team.

COPYING

- ☒ Original copy of letter and attachments (DA's, Reg. Cert's etc) sent registered post.
(If using the Delivery Advice card ensure that appropriate information is recorded to ensure easy reference to the correct documentation when returned. The registered post number should be recorded on the documentation.)
- ☒ 1 green copies of all paperwork made for file.
- ☒ White copy/ies of letter (if any) and attachments sent via normal mail.
- ☒ 1 white copy of approvals (DA's, Concurrence Responses, Surrenders, Cancellations, TEP's, EPO's, Warnings etc) to go in a plastic sleeve for the appropriate public register folders. **Not required for Coastal Applications.**

R

- ☒ 1 white copy of approvals (DA's, Concurrence Responses, Registration Certificates) to go in a plastic sleeve to be stapled to the front of the latest part of the file. **Not required for Coastal Applications.**

UPDATING TASKTRACKER (or other local office electronic project tracking system)

- ☒ Update task tracker – locate the correct project and change the due date appropriately or mark as complete and put in the completed date and add in any comments if required.

UPDATING ECOTRACK

- ☒ Go into the project in Ecotrack and ensure the appropriate dates have been entered in the "Project Plan" tab – if not enter the dates (i.e. ensure all applicable dates have been entered to ensure permit doesn't remain outstanding and that timeframes have been met).

- ☐ Amendments to permits. If the permit numbers are different e.g. IPDE00????? has been created as amendment SPDE00????? you will need to ensure, if appropriate (e.g. the amended DA is reissued in full), that a request is sent to the Ecotrack Helpdesk requesting that IPDE00????? is marked as superseded as it has been replaced by SPDE00?????.

If the amendment relates to an ERA related Development Approval you will also need to check the Registration Certificate and this may need to be amended to include the new DA no./s.

- ☐ Changes to Registration Certificates and Mining permits e.g. Surrenders, Continuing Registrations and Changes to Anniversary Dates. Check the Annual Return entries for these to ensure the correct entries are showing up in the correct versions and statuses are changed appropriately e.g. "Cancelled". Will need to advise ISU if any invoices need to be credited and/or the whole entry needs to be removed from the Superseded entries.

For surrenders and cancellations ensure that these are finalised in Ecotrack by going into Actions then "Cancel Permit" or "Surrender Permit" to ensure no future annual returns are generated.

- ☐ Check the statuses of the relevant/related permit/s to ensure they are all correct e.g. old versions have been marked as "Superseded" (if applicable) and the versions initially in assessment are now recorded as "Current" (or Invalid, Withdrawn, Refused etc). You may need to manually request some of these changes by completing the "Deletion or Status Change Request" form for the Ecotrack Helpdesk to action. DO NOT leave any permits as "Deemed" "Acceptance or Refusal".

UPDATING EXCEL SPREADSHEETS

- ☐ Update your local RSA Register spreadsheet.
- ☐ Update your local New Applications spreadsheet.
- ☒ Update other local register spreadsheets as required.

CURRENT LICENCE REGISTER - New Registration Certificates, Surrenders and Cancellations,
Changes to DA numbers, TEP's, EPO's, PIN's, Warnings,
Environmental Evaluations etc

SCANNING

- ☒ Scan in copies of approvals (DA's, Concurrence Responses, Registration Certificates etc) to be renamed by their approval no. (e.g. ENRE00100708) and then save in local signed licences directory then attach to the approval in Ecotrack.

EMAILING

- ☐ Email any "Interfering with Quarry Materials" approvals to Shari Sievers.
- ☒ Email DACoordinationSEQNorth@derm.qld.gov.au DACoordinationSEQSouth@derm.qld.gov.au or DACoordinationWideBayBurnett@derm.qld.gov.au all "multi" application responses.

FILING

- ☒ Keep this checklist attached to the green copy of the approval paperwork in the file.

TRANSACTION REPORT

03-FEB-2012 FRI 16:56

FOR: 0741211650

DEPT OF ENVIRONMENT

SEND(M)

DATE	START	RECEIVER	TX TIME	PAGES	NOTE	M#	SENDER
03-FEB	16:49	054810801	6'28"	30	OK	236	

Published on DES Disclosure Log
RTI Act 2009

Fax

To	Tania Stenholm	Fax	5481 0801
Subject	Bonnick Road MCU		
Reference	2010-1765		
From	Matt Karle		
Phone	4121 1618	Fax	4121 1650
Email	Matt.karle@derm.qld.gov.au		
Date	3/2/2010	Pages (inc. cover)	30

Attention Tania,

Please find attached Concurrence Agency Response for application (your reference) 2010-1765 (Bonnick Road Waste Facility and Transfer Station).

Regards

Matt Karle

Principal Environmental Officer

Department of Environment and Resource Management.

Important notice about confidentiality: This facsimile is intended only for the addressee and may contain confidential information. You are notified that any transmission, distribution or photocopying of this facsimile is prohibited. The confidentiality attached to this facsimile is not waived, lost or destroyed by reasons of a mistaken delivery to you. If you have received this facsimile in error, please notify us immediately by telephone.

R

ORIGINAL TO

COUNCIL

Published on DES Disclosure Log
RTI Act 2009

Concurrence Agency Response

This notice is issued by the Department of Environment and Resource Management pursuant to section 287 (concurrence agency response) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
PO Box 155]
Gympie Qld 4570

cc. Mr Michael Grant
Gympie Regional Council
PO Box 155
Gympie Qld 4570

Our reference: 221737
MBH2951

Re: Concurrence Agency Response

1. Application Details

Assessment Manager ref.: 2010-1765

Date application referred to DERM:

21 December 2010

Development approval applied for:

Development permit

Aspect of development:

Material change of use - Environmentally relevant activities	<i>Sustainable Planning Regulation 2009 - Schedule 7, table 2, item 1</i>	DERM ref. no. - SPCE01417310
--	---	---------------------------------

Development description:

Environmentally Relevant Activity 60 – Waste Disposal, 2(e) –
Operating a facility for disposing of, in a year, more than 20,000t to
50,000t

Property/Location description:

Lot 542, MCH801883

2. The Chief Executive, Department of Environment and Resource Management (DERM) concurrence agency response referral jurisdiction for the aspect of development involved with the application the subject of this Notice is to tell the assessment manager as follows.
- (a) Conditions must attach to any development approval, and those conditions are attached to this Notice.

4. **Approved plans / specifications**

As per attached conditions

5. **General advice to assessment manager**

Pursuant to sections 334 and 363 of the Act, a copy of a decision notice or negotiated decision notice issued by the assessment manager must be forwarded to DERM as a referral agency for the relevant application at Department of Environment and Resource Management, PO Box 101, Maryborough 4650, and an electronic copy to eco.access@derm.qld.gov.au.

The State's Native Title Work Procedures provide that responsibility for assessment of native title issues for an IDAS application rests with the assessment manager. Therefore, DERM as a referral agency for the relevant application has not provided notification to native title parties.

6. **Additional comments or advice about the application**

Nil

7. **Additional information for applicants**

CTPI 49-Sch4-Signature

Delegate
Tim Brain *3 February 2012*
Delegate, Chief Executive administering the *Environmental Protection Act 1994*,
Department of Environment and Resource Management

Enquiries:
Matt Karle
Department of Environment and Resource Management
Wide Bay Burnett
PO Box 101
Maryborough Q 4650
Phone: 4121 1618
Fax: 4121 1650
Email: matt.karle@derm.qld.gov.au

Attachment(s)

Sustainable Planning Act 2009**DERM Permit ¹ number:**

Assessment manager reference (if any):	2010-1765
Date application received:	21 December 2010
Permit type:	Concurrence Agency Response
Date of decision:	3 rd February 2012
Decision:	<p>For a concurrence agency response</p> <p>ERA 60 - Land filling operations – Approved subject to conditions.</p> <p>ERA 62 – Transfer Station – Approved subject to conditions</p> <p>Conditions must attach to any development approval</p>
Relevant laws and policies:	<i>Environmental Protection Act 1994</i> and any related statutory instruments and subordinate legislation
Jurisdiction(s):	<i>Sustainable Planning Regulation 2009</i> – Schedule 7, table 2, item 1

Development Description(s)

Property/Location		Development
Bonnick Road, Gympie	Lot 542, MCH801883	ERA 60 – Waste Disposal, 2(e) – Operating a facility for disposing of, in a year, more than 20,000t to 50,000t
Bonnick Road, Gympie	Lot 542, MCH801883	ERA 62 – Waste Transfer Station Operation

Reason(s) for inclusion of conditions

In accordance with section 289 of the *Sustainable Planning Act 2009*, the reason(s) for inclusion of conditions stated in this permit required by the concurrence agency response for the application are as follows.

The conditions are included pursuant to section 73B of the Environmental Protection Act 1994.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management.

CTPI 49-Sch4-Signature

Delegate

Tim Brain

Delegate, Chief Executive administering the *Environmental Protection Act 1994*.

Department of Environment and Resource Management

3rd February 2012

Published on DES Disclosure Log
RTI Act 2009

CONDITIONS

ERA 60 – Land filling operations

Schedule 1A - Activity

Existing landfill and Landfill Extension

(1A1-1) This development approval relates to land filling on land described as Lot 542, on Plan MCH801883.

- References throughout these conditions to the existing landfill refers to the area of landfill depicted in Figure 1 at Schedule 1H.
- References throughout these conditions to the Landfill Extension refers to the area of landfill depicted in Figure 1 at Schedule 1H.
- Where a condition does not make reference to a specific area, the condition apply's to the approved premises generally, and will not be restricted to either the existing landfill or landfill extension.

Prevent and/or Minimise Likelihood of Environmental Harm

(1A2-1) In carrying out the environmentally relevant activity, you must take all reasonable and practicable measures to prevent and/or minimise the likelihood of environmental harm being caused. Any environmentally relevant activity that, if carried out incompetently or negligently, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner and at least in accordance with the conditions of this approval.

Maintenance of Measures, Plant and Equipment

(1A3-1) The Registered Operator must:

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

Records

(1A4-1) Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.

Investigation into Alternative Waste Management Practices

(1A5-1) You are required to investigate alternative waste management practices to maximise, where possible, recycling and diversion of waste from being disposed to landfill.

For the purpose of satisfying this condition in accordance with the waste management hierarchy and principles of the *Waste Reduction and Recycling Act 2011*, on or before 1 December 2012 you must conduct:

- (i) a strategic waste management assessment, and include as a target, an aim to achieve a recycling or diversion from land filling at a rate of at least 70%; and
- (ii) report estimated recycling and diversion rates and any progress made in achieving the 70% target to the administering authority with each annual return after within 2 months of the end of each financial year after 1 December 2012.

Closure and Post-Closure Care

(1A6-1) Prior to cessation of waste deposition to any landfill unit, a cover system to the landfill unit must be progressively installed such that when waste deposition into the landfill unit ceases:

- (i) infiltration of water into the landfill unit is minimised;
- (ii) the likelihood of any erosion occurring to either the final cover system or the land filled materials is minimised; and
- (iii) un-controlled release of landfill gas is actively managed.

(1A6-2) Post-closure care of the landfill must be conducted following the cessation of the deposition of waste in the landfill unit, for:

- (i) a period of 30 years; or
- (ii) such shorter period until the landfill unit and surrounding site are geo-technically stable and that no release of waste materials, leachate, landfill gas or other contaminants to the environment is likely.

CTPI 4

- (1A6-3) A site management plan pursuant to Chapter 7, Part 8, Division 5 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 you intend to take for compliance with the closure and post-closure care requirements of this approval.

Security

- (1A7-1) All reasonable and practical measures must be implemented to ensure unauthorised access to the premises to which this development approval relates is prevented.

Fire Prevention

- (1A8-1) Clear access to a water supply for fire fighting vehicles must be provided at all times.
(1A8-2) An effective fire break must be provided and maintained.

Notification

- (1A9-1) Telephone the Department of Environment and Resource Management Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval
- (1A9-2) Notwithstanding condition (1A9-1), within 10 days of becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval, provide the following written advice to the administering authority:
- available analysis results; and
 - details of investigation or corrective actions taken or proposed; and
 - advice when any outstanding or subsequent analysis results will be provided
 - advice when any subsequent analysis will be carried out to verify the success of any corrective actions taken.
 - the name of the operator, including their approval / registration number;
 - the name and telephone number of a designated contact person;
 - quantity and substance released;
 - any vehicle involved and its registration details;
 - person/s involved;
 - the location and time of the event / release or monitoring result;
 - the suspected cause of the event or release;
 - a description of the effects of the release on the receiving environment.

Spill Kit

- (1A10-1) An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes associated with the Environmentally Relevant Activity must be kept at the site.

Information

- (1A11-1) Erect at the entrance and/or other prominent locations, signs maintained in good repair, written in a language appropriate for the user population and giving the following information:
- the name of the site and a telephone contact number for site information;
 - that disposal of waste is prohibited without the direction or permission of the landfill operator; and
 - details of the facility opening hours.

Site Based Management Plan

- (1A12-1) From commencement of the approved activity, 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.

CTPI 4

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.
- (h) Conducting environmental impact assessments.
- (i) Staff training.
- (j) Record keeping.
- (k) Periodic review of environmental performance and continual improvement

Site Development Plan

(1A13-1) As part of the SBMP required by condition (1A12-1) the Registered Operator must develop and implement a Site Development Plan (SDP). The SDP must be reviewed on an annual basis and be kept up to date so that it covers at least the subsequent 5 years development of the landfill. The SDP must address at least the following issues:

- dimensions of landfill units used for waste disposal or storage; and
- an accurate level survey of any area to be utilised for the disposal or storage of wastes. The levels must be reduced to a common datum and related to contour plans; and
- the approximate dimensions of each landfill unit and dimensions of the active waste disposal face; and
- 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; and
- approximate location of any sedimentation pond, and / or pump wells to be used or other facilities, plant and equipment installed as part of a leachate collection, storage and recirculation system; and
- location of any stormwater drains or diversion embankments existing or to be constructed; and
- 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.
- location of bores required by condition (1C6-1)

END OF CONDITIONS FOR SCHEDULE 1A

Schedule 1B - Air

Nuisance

(1B1-1) The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.

Dust Nuisance

(1B2-1) The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.

(1B2-2) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, you must undertake dust and particulate monitoring to investigate environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of the monitoring. Monitoring must include:

- (i) procedures and reporting undertaken in accordance with the **Air Quality Sampling Manual**; and
- (ii) for a complaint alleging dust nuisance, dust deposition; and
- (iii) 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; and
- (iv) be carried out in or at a place(s) relevant to the potentially affected dust sensitive places and upwind control sites.

Management of Landfill Gas

- (1B3-1) The release of landfill gas must not cause environmental harm.
- (1B3-2) Landfill gas is not considered to cause environmental harm if:
- (i) a landfill gas collection system is installed and maintained when the landfill unit is sufficiently elevated to allow adequate draining of gas lines; and
 - (ii) landfill gas monitoring shows that the release of methane does not exceed the following limits:
 - (a) 500 ppm at a height of 50 mm above the final and/or intermediate cover surface including the batter slopes of the landfill unit;
 - (b) 25 percent of the lower explosive limit when measured in facility structures (but excluding facility structures used for landfill gas control and landfill gas recovery system components); and
 - (c) the lower explosive limit at the landfill facility boundary.

Landfill Gas Monitoring

- (1B4-1) The assessment of compliance with the methane limits at a height of 50 mm above the final and intermediate cover surface of the landfill unit prescribed by (1B3-2) must be undertaken at the following locations:
- (i) on a grid pattern where the grid lines are no more than 50m apart; and
 - (ii) at any other locations where visual observations indicate potentially elevated concentrations of landfill gas, for example cracks, seeps in cover and distressed vegetation.
- (1B4-2) A landfill gas monitoring network must be installed for each landfill unit to assess compliance with methane limits for facility structures and at the boundary prescribed by (1B4-1). The network must consist of gas monitoring devices, such as monitoring bores and be developed by a person possessing appropriate qualifications and experience in the fields of hydrogeology and landfill gas monitoring program design to be able to competently make recommendations about these matters.
- (1B4-3) Conduct and keep records of landfill gas monitoring that is performed at the following frequencies:
- (i) at least annually to assess compliance with the methane limit at a height of 50 mm above the cover surface of the landfill unit prescribed by condition (1B3-2); and
 - (ii) at least annually to assess compliance with methane limits for facility structures and at the boundary prescribed by condition (1B3-2).

END OF CONDITIONS FOR SCHEDULE 1B

Schedule 1C - Water**Contaminant Releases to Waters**

- (1C1-1) Only clean, uncontaminated stormwater runoff from final landforms that are vegetated and rehabilitated and groundwater in accordance with condition (1C5-1), is permitted for direct release from the approved premises.
- (1C1-2) Stormwater runoff from **disturbed areas** at the existing landfill must be directed to drainage areas designed and maintained to minimise sediment release from the existing landfill. Design measures may include (but are not limited to) vegetated drainage swales and rock and sediment sumps or weirs within the approved premises.
- (1C1-3) Stormwater runoff from **disturbed areas** at the landfill extension must be directed to a sedimentation pond, which must be sufficiently constructed, operated and maintained to contain the runoff expected from a 24 hour storm with an average recurrence interval of 1 in 10 years.
- (1C1-4) Settled/treated stormwater runoff from the sedimentation pond must only be released from the following discharge location:
- W2: overflow from sedimentation pond to a tributary of Peter and Paul Gully.

Surface Water Monitoring

- (1C2-1) Monitoring of contaminant releases must be undertaken at the monitoring points described below for each discharge location and records kept, for the quality characteristics and at the frequency specified in Schedule 1C – Table 1:

CTPI

Monitoring points:

- W1- clean water bypass around the landfill discharging to Peter and Paul Gully; and
 W2- overflow from the sedimentation pond; and
 W3- ambient monitoring upstream of the landfill in Peter and Paul Gully; and
 W4- ambient monitoring downstream of the landfill in Peter and Paul Gully;
 W5 Groundwater Cut Off System monitoring point

- (1C2-2) All determinations of water quality from the monitoring prescribed by condition (1C2-1) above must be made in accordance with methods prescribed in the *Monitoring and Sampling Manual 2009 Environmental Protection (Water) Policy 2009*, available from the Department of Environment Resource Management.
- (1C2-3) Results of monitoring required by Condition (1C2-1) must be compiled and an interpretation of the results reported to the Administering Authority with each Annual Return.

Schedule 1C – Table 1 (Release Limits)

Monitoring Point	Quality Characteristics	Units of Measure	Monitoring Frequency
W1, W2, W3 and W4	pH	pH units	Weekly in the event of a release
W1, W2, W3 and W4	Suspended solids	mg/L	Weekly in the event of a release
W1, W2, W3 and W4	Temperature	Degrees celcius	6 Monthly
W1, W2, W3 and W4	Electrical Conductivity	µS/cm	6 monthly
W1, W2, W3 and W4	Dissolved Oxygen	mg/L	6 Monthly
W2, W3 and W4	Biological Oxygen Demand	mg/L	6 Monthly
W2, W3 and W4	Chloride	mg/L	6 monthly
W2, W3 and W4	Sodium	mg/L	6 monthly
W2, W3 and W4	Nitrate	mg/L	6 Monthly
W2, W3 and W4	Ammonia	mg/L	6 monthly
W2, W3 and W4	Iron (dissolved)	mg/L	6 monthly
W2, W3 and W4	Manganese	mg/L	6 Monthly

*N/A means not applicable

*NS means not specified

Landfill as a 'Bioreactor' Investigation

- (1C3-1) A Management Plan detailing the successful operation of both the existing landfill and the landfill extension as a Bioreactor must be developed within 6 months from the effective date of this Development Approval. The management plan must include (but not necessarily be limited to) the following matters:
- goals to be achieved from operating the landfill as a bioreactor;
 - measures and procedures that will minimise the generation of leachate;
 - existing leachate quality for the parameters stated in Schedule 1C Table 2
 - expected changes in leachate quality and quantity during the life of the landfill that demonstrates the landfill is effectively operating as a bioreactor;
 - expected changes in leachate quality and quantity that would suggest the landfill is not effectively operating as a bioreactor;
 - methods of leachate recycling that maximise the successful performance of the landfill as a bioreactor;
 - circumstances where leachate must be removed from the site (quality or quantity)
 - disposal and treatment options for leachate that must be removed from the site;
 - general information about the capability of any external disposal or treatment facility that may receive leachate from the site, taking into consideration (among other things):

CTP

- a) the treatment or disposal capability of the facility; and
 - b) any environmental discharges from the selected treatment or disposal facility to the environment, and whether receipt of leachate from the landfill will affect the performance of the facility, and / or cause harm to the receiving environment.
- a monitoring program for leachate quality being circulated within the landfill.

Schedule 1C Table 2 – Leachate quality parameters

Quality Characteristic
pH
Total Dissolved Salts (TDS)
Water Level
Temperature
Electrical Conductivity - EC
Ammonia
Total Nitrogen
Nitrate (NO ₃)
Ammonia (NH ₄)
Biological Oxygen Demand (BOD)
Heavy Metals (Al, Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sn, Sb, Se, Ti, Zn)
Total Organic Carbon (TOC)
Cations (Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺)
Anions (Cl ⁻ , CO ₃ , HCO ₃ ⁻ , SO ₄ ²⁻)
Total Organochlorines
Total Organophosphates
Organics (VOC, SVOC, TPH)
Total Organic Halogen (TOX)
Alkalinity (CaCO ₃)
Chemical Oxygen Demand (COD)
Total Dissolved Salts

- (1C3-2) The management plan required by Condition (1C3-1) must be incorporated into the Site Based Management Plan required by Condition (1A12-1)
- (1C3-4) The management plan required by Condition (1C3-1) must be submitted to the administering authority within 7 months of the effective date of this Development approval.

Leachate Collection

- (1C4-1) A leachate collection system must be installed and maintained to effectively:
- (i) collect leachate generated in the landfill extension;
 - (ii) provide connectivity between the existing landfill and the landfill extension;
 - (iii) convey collected leachate to a designated collection or recovery point;
 - (iv) provide an access point for leachate quality and quantity monitoring; and
 - (v) ensure leachate remains contained within the liner system, including during or following periods of high rainfall.

Groundwater

- (1C5-1) A groundwater cut off system must be installed to ensure groundwater levels beneath the Landfill Extension do not come into contact with any containment liner system, nor adversely affect the integrity or performance of any containment liner system for the Landfill Extension.
- (1C5-2) The groundwater cut off system required by Condition (1C5-1) must be:
- i) Designed by a suitably qualified, experienced and **independent person**.
 - ii) Installed under the supervision of a suitably qualified, experienced and **independent person**.
 - iii) Certified by that **independent person** as being installed as per the design.
 - iv) Monitored and maintained as necessary to ensure compliance with conditions (1C5-1).
- (1C5-3) The groundwater cut off system must be designed, installed, certified and operational prior to the deposit of any waste in the Landfill Extension.
- (1C5-4) The groundwater cut off system must also provide leachate leak detection for the landfill extension, during both the life of the landfill and for a period up to 30 years post closure, or as otherwise defined in the post closure management plans required by Conditions (1A6-2) and (1A6-3).

CTPI

(1C5-5) The groundwater cut off system must be designed and constructed to provide an access point/s (Monitoring point W5) that;

- allows for monitoring and sample collection at a designated collection sump;
- allows for the collections of samples that are representative of the entire groundwater cut off system; and
- is not otherwise contaminated by other sources (namely the collection sump for the leachate collection system).

(1C5-6) Liquid intercepted by the groundwater cut off system, which is released to Peter and Paul Gully, must be analysed for the characteristics and at the monitoring frequency prescribed in Schedule C Table 3.

Schedule 1C - Table 3 Monitoring requirements for Groundwater Cut Off System

Quality Characteristic	Frequency		
	Monitoring Location	During Land filling, when liquid is present at monitoring point required by (1C5-5)	Pre-Land filling Baseline Monitoring
Water Level	W5	Monthly	Quarterly prior to the commencement of land filling at the landfill extension.
Temperature	W5	Monthly	
pH	W5	Quarterly	
Total Dissolved Salts (TDS)	W5	Quarterly	
Electrical Conductivity - EC	W5	Quarterly	
Ammonia	W5	Quarterly	
Total Nitrogen	W5	Quarterly	
Nitrate (NO ₃)	W5	Quarterly	
Ammonia (NH ₄)	W5	Quarterly	
Biological Oxygen Demand (BOD)	W5	Quarterly	
Heavy Metals (Al, Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sn, Sb, Se, Ti, Zn)	W5	Quarterly	
Total Organic Carbon (TOC)	W5	Quarterly	
Cations (Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺)	W5	Quarterly	
Anions (Cl ⁻ , CO ₃ , HCO ₃ ⁻ , SO ₄ ²⁻)	W5	Quarterly	
Total Organochlorines	W5	Annually	
Total Organophosphates	W5	Annually	
Organics (VOC, SVOC, TPH)	W5	Annually	
Total Organic Halogen (TOX)	W5	Annually	
Alkalinity (CaCO ₃)	W5	Annually	
Chemical Oxygen Demand (COD)	W5	Annually	
Total Dissolved Salts	W5	Annually	

Groundwater Monitoring

(1C6-1) A Groundwater monitoring network must be installed for each landfill unit. The network must be:

- (i) installed and maintained 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; and
- (ii) include a sufficient number of "bore(s) of compliance", constructed in accordance with the "Minimum Construction Requirements for Water Bores in Australia" (Agricultural and Resource Management Council of Australia and New Zealand 1997), that are located not more than 150 metres from the landfill unit or the boundary of the landfill facility whichever is the closer, and provides the following:
 - representative groundwater samples from the uppermost aquifer and from the lower (confined) aquifer; and
 - background groundwater quality in hydraulically up-gradient or background bore(s) that have not been affected by any release of contaminants to groundwaters; and

CTPI

- the quality of groundwater down gradient of any release of contaminants to groundwater including groundwater passing the relevant bore(s) of compliance.

- (1C6-2) Conduct monitoring and keep records of groundwater quality. All determinations of groundwater quality must be:
- made in accordance with methods prescribed in the Water Quality Sampling Manual and, where appropriate, in accordance with standards ISO 5667-11 1993 or AS/NZ 5667.11: 1998 Water Quality – Sampling – Guidance on sampling at Groundwaters and ISO 5667-18: 2001 Water Quality Sampling – Part 18 – Guidance on Sampling of Groundwater at Contaminated Sites;
 - conducted for the water quality characteristics and at the frequency in Schedule 1C - Table 4;
 - taken from sufficient monitoring points and/or wells to obtain representative samples of groundwater both up-gradient and down-gradient of the potential influence;
 - carried out with sufficient regularity and spatial and temporal replication to make statistically valid conclusions about the presence or absence of a release;
 - carried out with sufficient number of sampling events to determine ambient water quality and natural variability prior to any development of the site occurring;
 - followed by an assessment of whether or not there has been any statistically significant adverse change compared to background values at locations hydraulically down gradient of the landfill unit for each quality characteristic in Schedule 1C - Table 4.

Schedule 1C – Table 4 Monitoring requirements for groundwater quality

Quality Characteristic	Frequency	
	During Land filling	Pre-Land filling Baseline Monitoring
Water Level	Monthly	Quarterly prior to the commencement of land filling at the landfill extension.
Temperature	Monthly	
Total Dissolved Salts (TDS)	Quarterly	
pH	Quarterly	
Electrical Conductivity - EC	Quarterly	
Ammonia	Quarterly	
Total Nitrogen	Quarterly	
Nitrate (NO ₃)	Quarterly	
Ammonia (NH ₄)	Quarterly	
Biological Oxygen Demand (BOD)	Quarterly	
Heavy Metals (Al, Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sn, Sb, Se, Ti, Zn)	Quarterly	
Total Organic Carbon (TOC)	Quarterly	
Cations (Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺)	Quarterly	
Anions (Cl ⁻ , CO ₃ ²⁻ , HCO ₃ ⁻ , SO ₄ ²⁻)	Quarterly	
Total Organochlorines	Annually	
Total Organophosphates	Annually	
Organics (VOC, SVOC, TPH)	Annually	
Total Organic Halogen (TOX)	Annually	
Alkalinity (CaCO ₃)	Annually	
Chemical Oxygen Demand (COD)	Annually	
Total Dissolved Salts	Annually	

- (1C6-3) On any occasion that samples are obtained in accordance with condition (1C6-2) the Registered Operator must measure and record standing groundwater levels in metres accurate to 0.01 metres. The elevation of the reference point, relative to Australian Height Datum, for use in any groundwater level measurement must be determined to an accuracy of 0.01 metres.

Monitoring Review and Summary

- (1C7-1) All groundwater monitoring required by this Development Approval must be reviewed on an annual basis by an independent person with suitable qualifications and experience to summarise and interpret the results regarding any impacts on the values of the receiving water environment.

CTP

- (1C7-2) The review and interpretation of water monitoring results required by Condition (1C7-1) must be provided as a report to the administering authority on an annual basis with each Annual Return.

Prohibition of Use of Certain Materials for Dust Suppression

- (1C8-1) The following materials must not be used for dust suppression purposes:

- used oil; and
- landfill gas condensate; and
- any other material that has been in contact with waste, such as leachate or stormwater runoff from any exposed waste.

Landfill Cell and Pond Construction

- (1C9-1) All ponds used for the storage or treatment of contaminants (including any sediment pond) at or on the authorised place must be constructed, installed and maintained:
- (i) so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any waters (including ground water);
 - (ii) using suitable banks and / or diversion drains so as to exclude clean stormwater runoff from entering the pond or structure,
 - (iii) using suitable banks to exclude any rising waters from Peter and Paul Gully during a flood event, sufficient to exclude at least a Q100 flood event;
 - (iv) so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and
 - (v) so as to ensure the stability of the ponds' construction.
- (1C9-2) Soils and other materials used in the construction of any waste disposal cells or subcells, above ground embankments, sediment pond and final cover must achieve a hydraulic conductivity which is sufficiently low and be of sufficient thickness so as to prevent or minimise the release of contaminants. As a minimum, the permeability of various landfill features must at least comply with the corresponding limits specified in Schedule 1C – Table 5.
- (1C9-3) Following construction of any landfill unit, above ground embankment, leachate collection pond, or sediment pond, and prior to that structure being commissioned, the permeability of the base and walls of the structure must be tested to ensure it meets the standards required by the conditions of this development approval.
- In each structure tested at least the following number of permeability tests must be made:
- at least two permeability tests in each wall of the subject structure; and
 - at least one permeability test in the base of the subject structure for every 10 000 m² of base area or part thereof.
- (1C9-4) To demonstrate compliance with Condition (1C9-2) and Schedule 1C Table 5, permeability testing must at least include laboratory testing, and subsequent field testing involving Nuclear Density Testing and Microwave Moisture Verification, and must be certified as meeting the prescribed permeability by a suitably qualified and experienced independent person.
- (1C9-5) The landfill extension must incorporate a liner system, capable of containing waste and leachate within the landfill development, and minimise the potential for leachate to be released from the approved premises as seepage.
- (1C9-6) Any landfill cell or sub-cell, above ground embankment, leachate collection pond, sediment pond and final cover must be constructed and operated in accordance with the requirements specified in Schedule 1C – Table 5.

CTPI 4

3-2-12

Schedule 1C – Table 5
(Permeabilities and Special Requirements for Landfill Features)

Landfill Feature	Minimum Permeability (m sec ⁻¹)	Minimum Thickness (mm)	Special Requirements
Liner sub base	1 x 10 ⁻⁸	600mm	- Preparation of low permeability clay base beneath the clay liner
Geosynthetic Clay Liner	Equivalent of 600mm of clay with a permeability of at least 1x10 ⁻⁹	Equivalent of 600mm of clay with a permeability of at least 1x10 ⁻⁹	
Confining Layer	Not specified	300	
Base and walls of sediment pond	1x10 ⁻⁷		<ul style="list-style-type: none"> - Sediment pond is not to receive stormwater runoff that has been in contact with waste. - Sediment pond is a sediment control device for runoff from disturbed areas only.
Daily landfill cover	Not specified	200	<ul style="list-style-type: none"> - Non – dispersive soil. - Cover must be applied following the last application of waste for the day. - No waste protruding - Alternatively, for the active face only, use of a temporary cover such as a 'landfill lid' or other proprietary product that assists to contain odours; minimise wind blown litter; and which assists to control vermin is an acceptable solution where the proprietary product completely covers the active face.
Final landfill cover, comprising:			
- Daily landfill cover	Not specified	200	
- Low permeability cap	1 x 10 ⁻⁸	500	
- Soil sub – base	Not specified	200 – 300	
- Topsoil	Not Specified	At least 150	<ul style="list-style-type: none"> - Final landfill cap should not exceed 20 percent slope - No waste protruding

Stormwater Management Plan

(1C10-1) As part of the SBMP required by condition (1A12-1) the Registered Operator must develop and implement a Stormwater Management Plan which addresses at least the following issues:

- diverting clean upstream stormwater away from contaminated areas; and
- containing contaminated stormwater on site; and
- minimising the size of contaminated areas; and
- provision of sedimentation dams and rubbish traps; and
- minimising the size of disturbed areas by staging works and progressively revegetating or mulching disturbed areas.
- Minimising the size of any active face, including measures to cover the active face when not in use (utilising either day cover or temporary and moveable proprietary products).

END OF CONDITIONS FOR SCHEDULE 1C

Schedule D - Noise

(1D1-1) Noise from the approved activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.

(1D1-2) Mulching of green waste is not permitted at the site.

CTPI
3-12

- (1D1-3) Crushing, milling or grinding of concrete waste is not permitted at the site.
- (1D1-4) In the event of a complaint about noise that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive or commercial place.
- (1D1-5) In the event noise monitoring is required by the Administering Authority, noise from the approved activity must not exceed the levels specified in Schedule D - Table 1 at any nuisance sensitive or commercial place.

**Schedule D – Table 1
(Noise Levels)**

Time Period	Proponent Noise level at a 'Nuisance Sensitive Place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	47 dB(A) or background noise level plus 3 dB(A), whichever is the higher
Time Period	Noise level at a 'Commercial place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	55 dB(A) or background noise level plus 5 dB(A), whichever is the greater

- (1D1-6) No audible noise from the approved premises is authorised at a nuisance sensitive premises (including noise from the use of vehicles, plant and equipment) between the hours 5:00pm to 7:00am Monday to Friday, and 3:00pm to 10:00am Saturday and Sunday.

Noise Monitoring

- (1D2-1) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance within 14 days, and the results of that monitoring provided to the administering authority once received from any external consultant with an interpretation of the results against the authorised noise levels prescribed by Condition (1D1-5). Monitoring must include:
- background noise level;
 - $L_{Aeq, adjT}$, $L_{Amax, adj, T}$, $L_{A10, adjT}$
 - 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.
- (1D2-2) The method of measurement and reporting of noise levels must comply with the Noise Measurement Manual.

Noise Management Plan

- (1D3-1) In the event noise emitted from the approved activity exceeds noise limits prescribed by Condition (1D1-5) the Registered Operator must develop a noise management plan to assist resolving the complaint. The noise management plan must address at least, but not be limited to, the following matters:
- (i) identification of component noise sources and activities at the place(s) which impact on nuisance sensitive and commercial places;
 - (ii) the measured level of these noise sources and activities at nuisance sensitive and commercial places;
 - (iii) the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive and commercial places;
 - (iv) the predicted reduction in noise at nuisance sensitive places by implementing these measures;
 - (v) time frame for completion of the work proposed;
 - (vi) any necessary community liaison and consultation; and
 - (vii) any training requirements for staff in noise reduction practices.

CTPI

- (1D3-2) A draft Noise Management Plan must be submitted to the Administering Authority for review and comment within one month of a noise emission that exceeds limits prescribed by Condition (D1-5).
- (1D3-3) After the Administering Authority has commented on the draft Noise Management Plan, the Registered Operator must have due regard to any comments made by the administering authority, and must implement the plan as soon as practicable.

END OF CONDITIONS FOR SCHEDULE 1D

Schedule 1E – Waste

Waste Acceptance

- (1E1-1) Within 24 months from the commencement date of this Development Approval, disposal of putrescible waste to the existing landfill must cease.
- (1E1-2) Exposed waste (excluding recyclable waste that is temporarily stored in a defined area) must be limited to the working face of any landfill unit and the area of exposure must be minimised to the greatest extent practicable. For the purpose of this condition, no waste must be deposited beyond the boundaries of the landfill unit(s).
- (1E1-3) Only the following general and limited regulated waste materials are permitted to be accepted:
- domestic waste;
 - commercial waste;
 - domestic clean-up waste;
 - construction or demolition waste;
 - industrial waste;
 - garden wastes;
 - putrescible wastes;
 - solid inert wastes;
 - limited regulated waste may be disposed of in the general waste stream provided the quantity of limited regulated waste received at the facility in a year is not more than 10% of the total waste received at the facility in any calendar year.
- NOTES:**
- (a) wet cell batteries, waste oil and grease trap waste may be accepted and temporarily stored at the licensed place for recycling purposes.
- (b) drums containing any residual regulated waste are a regulated waste unless effectively cleaned in accordance with Operational Policy 'Determinations for management of regulated wastes'.
- (1E1-4) Any limited regulated waste disposed of at the landfill must only be in a solid form*
- (* excluding water treatment plant residues and screenings from Gympie Regional Council Sewage Treatment Plants.)
- (1E1-5) The quantity of limited regulated waste received at the facility in a year must not be more than 10% of the total waste quantity received at the facility in any calendar year.
- (1E1-6) Notwithstanding any condition of this approval, you shall not cause, permit or allow deposition of the following waste materials in the landfill unit:
- liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity;
 - hot ash;
 - material that is smouldering or aflame;
 - material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises);
 - radioactive wastes;
 - explosives;
 - ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction;
 - tyres*
 - contaminated soil;
 - treatment tank sludge or residues, other than sewage treatment plant screenings and grit;
 - biosolids;
 - grease trap wastes; and

CTPI

3-2-12

- green waste – other than green waste that is of a size that cannot otherwise be shredded or composted, or which enters the landfill through the domestic waste collection service.

(* Council must take all reasonable and practical measures to prevent tyres being disposed into the landfill)

- (1E1-7) Limited regulated wastes accepted must be interred in compliance with the special requirements specified in Schedule 1E – Table 1.

Schedule 1E – Table 1
(Special Requirements for Waste Types)

Waste Type	Special Requirements
Infectious substances or quarantine waste	Rendered non-infectious before acceptance at landfill
Fish processing waste	No liquid waste
Food processing waste	No liquid waste
Poultry processing waste	No liquid waste

- (1E1-8) All exposed waste must be covered each day following the last deposition of wastes in the landfill and comply with the requirements for day cover specified in Schedule 1C Table 5.
- (1E1-9) The following conditions must be complied with in the disposal of all forms of asbestos waste. The asbestos waste must be disposed of:
- to a designated asbestos disposal pit(s) where no excavation takes place following the disposal of asbestos waste within that pit, and immediately covered with 200 mm of consolidated earth or equivalent cover material over the entire area of the pit; or
 - placed at the bottom of the current working face of the landfill unit (the disposal place) and immediately covered with at least 1 metre of waste;
 - the asbestos waste, the asbestos waste disposal pit or disposal place as the case may be, and all areas within 2 metres of the disposal pit/disposal place and asbestos waste (the 2 metre buffer area) must remain undisturbed following the waste disposal operation (including not placing the waste in a position where any gas extraction wells are likely to be necessary or drilling any gas extraction wells through the waste deposit);
 - plant and equipment must be available for any necessary preparation of the disposal pit/disposal place upon receipt of the asbestos waste and immediate covering of the asbestos waste and compacting of the area upon placement in the pit; and
 - the asbestos waste must be contained within the final landfill unit at a minimum distance of two (2) metres from the surface and flanks of the final landfill unit, excluding any final cover system required as a condition of this development approval (where final landfill unit means that deposition to the landfill unit has ceased).
- (1E1-10) The Registered Operator must take all reasonable and practicable measures to prevent the commingling of waste authorised to be interred within the landfill with waste not authorised to be interred at the landfill.

Special Burial

- (1E2-1) You must handle and dispose of as a special burial all waste which is likely to cause environmental harm when placed in an exposed position.

Waste Records

- (1E3-1) Keep and maintain records of source, volumes and composition of all waste types accepted at the premises and report these values to the administering authority at the end of each financial year.

Litter Management

- (1E4-1) Where litter is blown or washed from the premises to which this development approval relates, the Registered Operator must take all reasonable and practicable actions to:
- retrieve the litter and ensure that it is disposed of in an appropriate manner; and
 - implement measures to prevent a recurrence of litter being blown or washed from the premises.

CTPI 4

3-2-12

Burning

(1E5-1) The Registered Operator must not:

- (i) burn waste at or on the place to which this development approval relates*; nor
- (ii) allow waste to burn or be burnt at or on the place to which this development approval relates nor
- (iii) remove waste and burn such waste elsewhere.

(* This condition does not apply to material that is required to be burnt under quarantine regulations and, burning of such materials is to be carried out in a way that does not cause environmental harm. Additionally, this condition does not refer to activities carried out under the provisions of the Fire Services Act 1990.)

Public Health Issues

(1E6-1) The Registered Operator must take all reasonable and practicable measures necessary to ensure that the carrying out of the environmentally relevant activity does not cause any adverse effect on public health or any nuisance in relation to propagation of diseases, fly breeding, mosquito breeding, and harbourage and/or breeding of rats and other pest organisms and/or vectors

Quantities of Waste Disposed

(1E7-1) The Registered Operator must record details of the quantity of wastes interred including the following:

- quantity of infectious substances or quarantine waste that has been rendered non-infectious;
- quantity of fish processing waste;
- quantity of food processing waste;
- quantity of poultry processing waste;
- quantity of other regulated waste;
- total quantity of waste.

Notes: (1) where a load of general waste contains a number of regulated wastes an estimation of the percentage composition of each regulated waste must be made and recorded;
 (2) with respect to this condition, records of all quantities of waste must be expressed as a weight, e.g., kilograms or tonnes.

(1E7-2) The Registered Operator must not permit putrescible waste to be stored on site overnight or during times when the landfill is not open for the receipt of waste, without that waste being stored in a fully enclosed container or other device that prevents odour nuisance and which prevents contact with rainfall and stormwater runoff.

Note: Waste interred into the landfill in compliance with the conditions of this development approval is considered to have been disposed of and is not being stored.

(1E7-3) The final height of the landfill must not exceed RL 83.012m.

END OF CONDITIONS FOR SCHEDULE 1E

Schedule 1F - Land**Preventing Contaminant Release to Land**

- (1F1-1) Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.
- (1F1-2) All petroleum product storages must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.
- (1F1-3) The base and walls of all bunded areas must be maintained free from gaps and cracks.

END OF CONDITIONS FOR SCHEDULE 1F

CTPI

Schedule 1G - Community

Complaint Response

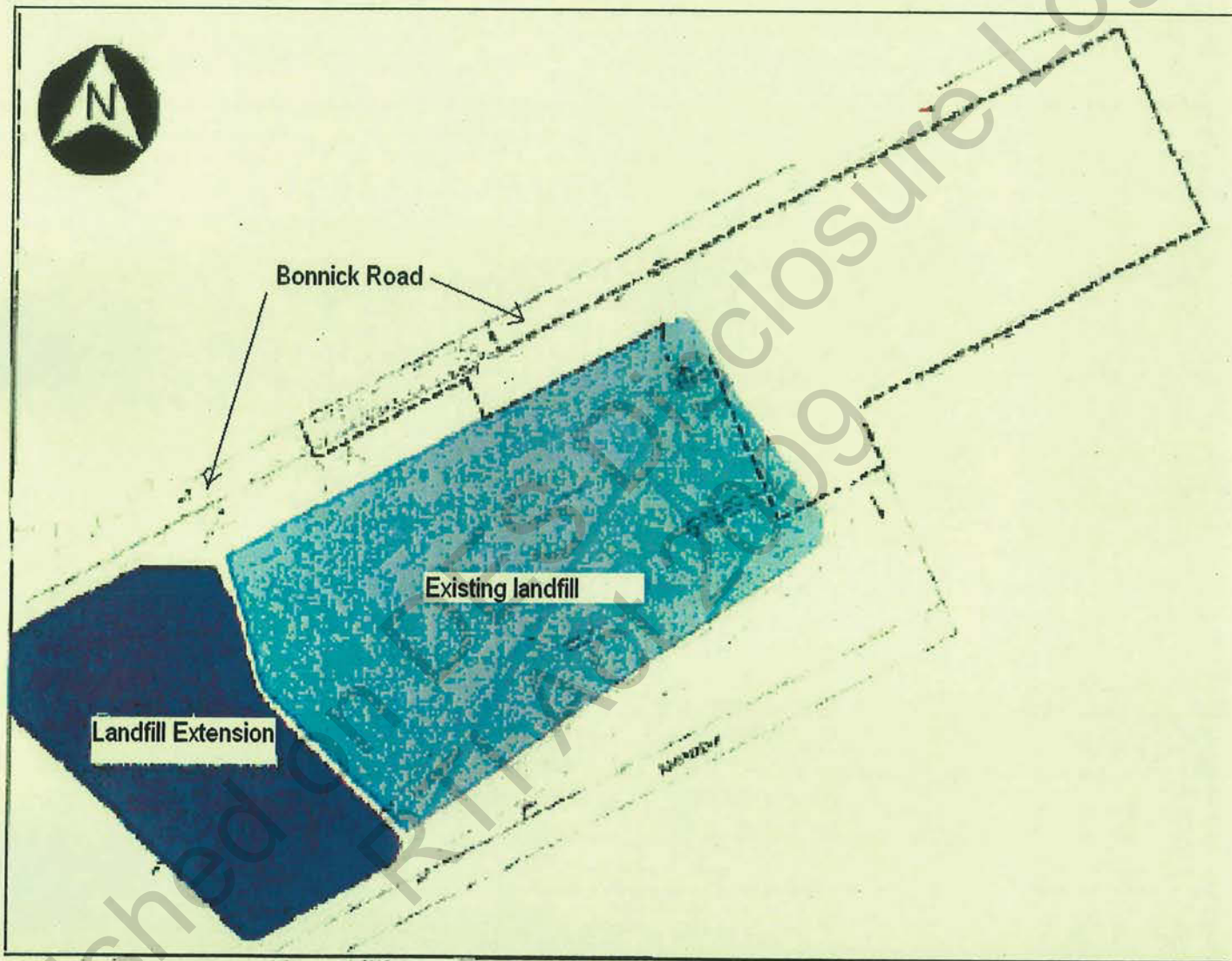
(1G1-1) The Registered Operator must record the following details for all complaints received and provide this information to the administering authority on request:

- a) Time, date and contact details of the complainant;
- b) Reasons for the complaint;
- c) Any investigations undertaken;
- d) Conclusions formed; and
- e) Actions taken to resolve the complaint.

END OF CONDITIONS FOR SCHEDULE 1G

Schedule 1H – Maps / Plans

Figure 1 - Existing Landfill and Landfill Extension



Conditions

ERA 62 – Transfer Station Schedule 2A – General

Prevent and / or minimise likelihood of environmental harm

(2A1-1) In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or minimise the likelihood of environmental harm being caused.

Maintenance of Measures, Plant and Equipment

(2A2-1) 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.

Site Based Management Plan

(2A3-1) From commencement of the approved activity, 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.
- (h) Conducting environmental impact assessments.
- (i) Staff training.
- (j) Record keeping.
- (k) Periodic review of environmental performance and continual improvement

(2A3-2) The site based management plan must not be implemented or amended in a way that contravenes a condition of this approval.

Records

(2A4-1) Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.

Notification

(2A5-1) Telephone the Department of Environment and Resource Management Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval

(2A5-2) Notwithstanding condition (2A5-1), within 10 days of becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval, provide the following written advice to the administering authority:

- the full analysis results; and
- details of investigation or corrective actions taken; and
- results of any subsequent analysis carried out to verify the success of any corrective actions taken or proposed.
- Advice when any outstanding or subsequent analysis results will be provided
- Advice when any subsequent analysis will be carried out to verify the success of any corrective actions taken.
- the name of the operator, including their approval / registration number;

CTPI

- the name and telephone number of a designated contact person;
- quantity and substance released;
- any vehicle involved and its registration details;
- person/s involved;
- the location and time of the event / release or monitoring result;
- the suspected cause of the event or release;
- a description of the effects of the release on the receiving environment.

Monitoring

- (2A6-1) A suitably qualified and experienced person must conduct any monitoring required by this approval.

Equipment Calibration

- (2A7-1) All instruments, equipment and measure devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.

Spill Kit

- (2A8-1) A dedicated spill kit, personal protective equipment and operator instructions/emergency procedure guides for the management of wastes associated with the Environmentally Relevant Activity must be kept at the site.

END OF CONDITIONS FOR SCHEDULE 2A

Schedule 2B - Air**Nuisance**

- (2B1-1) The release of dust and / or particulate matter, noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.
- (2B1-2) The Registered Operator must not permit putrescible waste to be stored on site overnight or during times when the landfill is not open for the receipt of waste, without that waste being stored in a fully enclosed container or other device that prevents odour nuisance and which prevents contact with rainfall and stormwater runoff

Dust Nuisance

- (2B2-1) The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.
- (2B2-2) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, you must undertake dust and particulate monitoring to investigate environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of the monitoring. Monitoring must include:
- (v) for a complaint alleging dust nuisance, dust deposition; and
 - (vi) 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; and
 - (vii) be carried out in at a place(s) relevant to the potentially affected dust sensitive places and upwind control sites.

Dust Control – Trafficable areas

- (2B3-1) Trafficable areas associated with the approved activity must be developed and maintained to prevent the release of wind blown or traffic generated dust.

END OF CONDITIONS FOR SCHEDULE 2B

Schedule 2C - Land**Prevent contaminant release to land**

- (2C1-1) Contaminants released to land at the site must only be released to land in accordance with conditions relating to ERA 60 – Landfill Operations, for the site as per Schedule 1A to 1H.
- (2C1-2) Spillage of all chemicals and fuels must be captured and contained within a dedicated containment system for the Transfer Station.

(Note: All petroleum product storages must be designed, constructed and maintained in accordance with AS1940 – Storage and Handling of flammable and combustible liquids.)

- (2C1-3) All bunding must be maintained to ensure it remains impermeable to the materials held within the bund
- (2C1-4) All bunded areas must be roofed, with the exception of green waste storage areas.
- (2C1-5) All bunded areas must be maintained free from gaps and cracks.
- (2C1-6) Chemicals or fuels captured in any dedicated Transfer Station containment system must not be released to the landfill at the subject site in liquid form.

END OF CONDITIONS FOR SCHEDULE 2C

Schedule 2D – Noise

- (2D1-1) Noise from the approved activity must not cause a nuisance at any nuisance sensitive or commercial premises.
- (2D1-2) Mulching of green waste is not permitted at the site.
- (2D1-3) Crushing, milling or grinding of concrete waste is not permitted at the site.
- (2D1-4) **Scrap metal collection** must only occur inside the Transfer Station structure.
- (2D1-5) Vehicle movements within the approved premises must be actively and passively managed to regulate speeds to 40km/hr or less along internal roads. Measures used to achieve compliance with this condition must not include speed bumps, and should otherwise provide for steady vehicle movements along access and exit roads.
- (2D1-6) The roof and walls of the Transfer Station (excluding lower concrete sections to 2.5m) must be constructed of, and / or lined with material that achieves a **Noise Reduction Coefficient** of at least 0.92, and an Rw rating of 39 (for the roof) and an Rw rating of 31 (for walls excluding lower concrete sections to 2.5m).
- (2D1-7) The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented, with the exception for necessary ventilation requirements, which must be acoustically designed (eg using acoustic louvres) to minimise noise emanating from the Transfer Station structure.
- (2D1-8) Acoustic barriers must;
 - be installed around any waste truck loading area, as per Schedule 2H Figure 1;
 - be installed to a height of at least 5.0m extending from the designed roller doors at the North Western and North Eastern corner of the Transfer Station, as per Schedule 2H Figure 1;
 - be installed to a height of 2.4m at the Bonnick Road Boundary, as per Schedule 2H Figure 2;
 - be continuous with no air gaps and be constructed of material with a minimum mass density of at least 12kg/m² or achieve an Rw of at least 20
- (2D1-9) Prior to the commissioning of the Transfer Station, the facility must be physically assessed by a person with appropriate noise mitigation qualifications and experience, verifying by way of a written report, that measures required to comply with conditions (2D1-6) through (2D1-8) have been installed.
- (2D1-10) A copy of the written report required by Condition (2D1-9) of this Development Approval must be provided to the Administering Authority prior to the commissioning of the Transfer Station.
- (2D1-11) In the event of a complaint about noise emissions from the Transfer Station that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive or commercial place.
- (2D1-12) In the event noise monitoring is required by the Administering Authority, noise from the approved activity must not exceed the levels specified in Schedule D - Table 1 at any nuisance sensitive place or commercial place.

CTPI

3-2-12

Schedule D – Table 1 (Noise Levels)

Time Period	Proponent Noise level at a 'Nuisance Sensitive Place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	44 dB(A) or background noise level plus 3 dB(A), whichever is the higher
Time Period	Noise level at a 'Commercial place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	55 dB(A) or background noise level plus 5 dB(A), whichever is the greater

- (2D1-13) No audible noise from the Transfer Station is authorised (including noise from the use of vehicles accessing the site, and plant and equipment within the site) between the hours 5:00pm to 7:00am Monday to Friday, and 4:00pm to 9:00am Saturday and Sunday.

Noise Monitoring

- (2D2-1) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance within 14 days, and the results notified to the administering authority once received from any external consultant. Monitoring must include:
- background noise level;
 - $L_{Aeq, adjT}$, $L_{Amax, adj, T}$, $L_{A10, adjT}$
 - 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.
- (2D2-2) The method of measurement and reporting of noise levels must comply with the Noise Measurement Manual.

Noise Management Plan

- (2D3-1) In the event noise emissions from the approved activity exceeds noise limits prescribed by Condition (2D1-12) you must, develop a noise management plan to assist resolve the complaint. The noise management plan must address at least, but not be limited to, the following matters:
- (viii) identification of component noise sources and activities at the place(s) which impact on nuisance sensitive or commercial places;
 - (ix) the measured level of these noise sources and activities at nuisance sensitive or commercial places;
 - (x) the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive or commercial places;
 - (xi) the predicted reduction in noise at nuisance sensitive or commercial places by implementing these measures;
 - (xii) time frame for completion of the work proposed;
 - (xiii) any necessary community liaison and consultation; and
 - (xiv) any training requirements for staff in noise reduction practices.
- (2D3-2) A draft Noise Management Plan must be submitted to the Administering Authority for review and comment within one month of a noise emission that exceeds limits prescribed by Condition (2D1-12).
- (2D3-3) After the Administering Authority has commented on the draft Noise Management Plan, the Registered Operator must have due regard to any comments made by the administering authority, and must implement the plan as soon as practical.

END OF CONDITIONS FOR SCHEDULE 2D

Schedule 2E - Social

Complaint Response

- (2E1-1) The Registered Operator must record the following details for all complaints received and provide this information to the administering authority on request:

CTP

- a) Time, date and contact details of the complainant;
- b) Reasons for the complaint;
- c) Any investigations undertaken;
- d) Conclusions formed; and
- e) Actions taken to resolve the complaint.

END OF CONDITIONS FOR SCHEDULE 2E

Schedule 2F - Waste

Waste composition

- (2F1-1) Only the following waste materials are permitted to be accepted through the Transfer Station:
 - a) Construction and demolition waste (C&D);
 - b) Commercial and industrial waste (C&I)
 - c) Municipal Solid Waste (MSW); and
 - d) Limited Regulated Waste.
- (2F1-2) Regulated waste received at the Transfer Station must not be disposed to the landfill at the subject site.

Waste Records

- (2F2-1) A record of all regulated waste must be kept detailing the following information:
 - a) date of pickup of waste
 - b) description of waste
 - c) Quantity of waste;
 - d) Origin of waste; and
 - e) Destination of the waste.

END OF CONDITIONS FOR SCHEDULE 2F

Schedule 2G – Water

Release to Waters

- (2G1-1) Contaminants must not be released from the Transfer Station to any waters or the bed or banks of any waters.
- (2G1-2) There must be no release of stormwater runoff that has been in contact with any contaminants at the Transfer Station to any waters, roadside gutter or stormwater drain

Erosion Protection Measures and Sediment Controls

- (2G2-1) Erosion protection measures and sediment control measures must be designed, installed and maintained wherever necessary to minimise erosion or disturbed areas and prevent the release of sediment to waters.

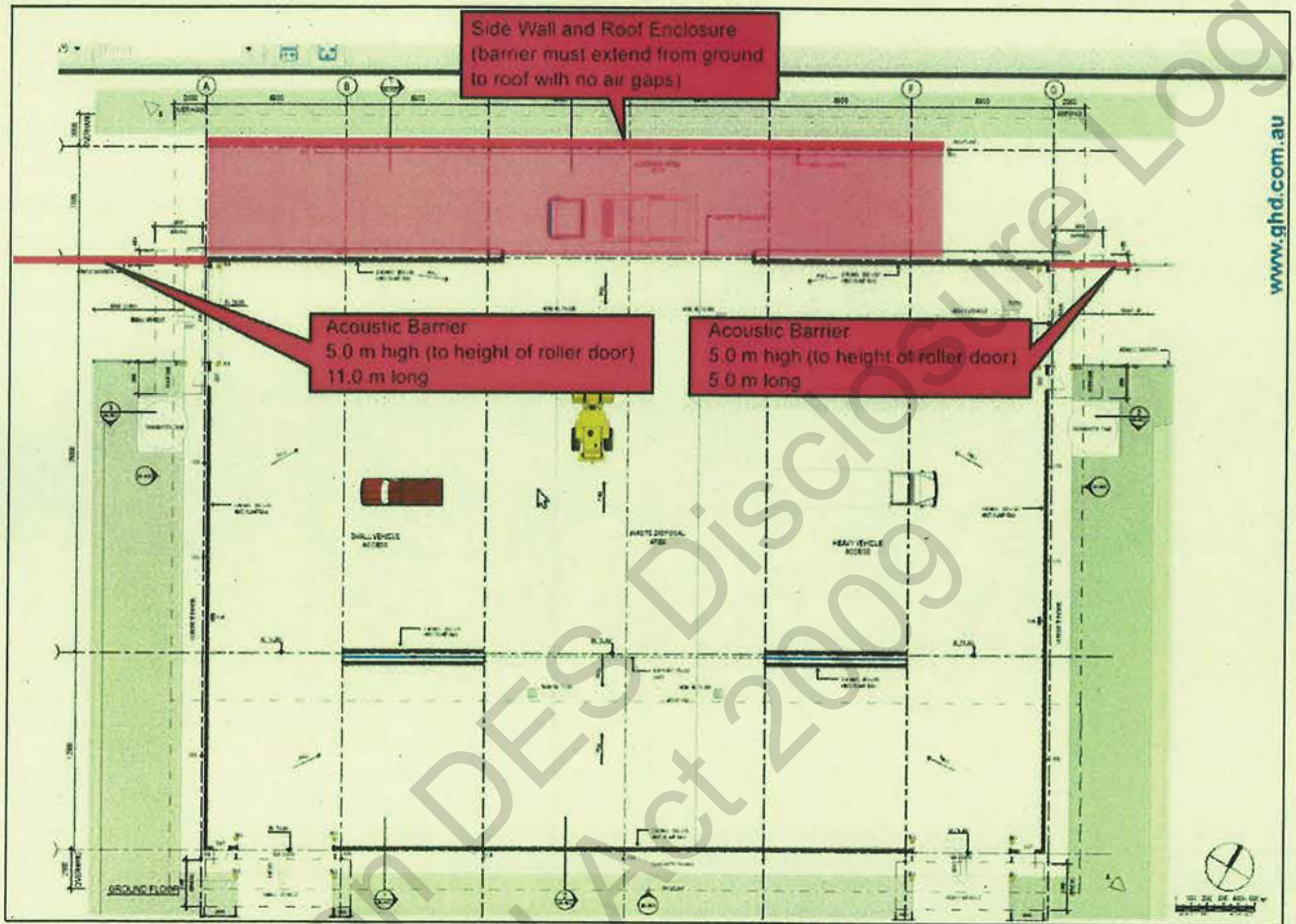
Cleaning and spillages

- (2G3-1) The maintenance and cleaning of any vehicles, other equipment or plant must be carried out in areas where contaminants cannot be released into any waters, roadside gutter or stormwater drain.

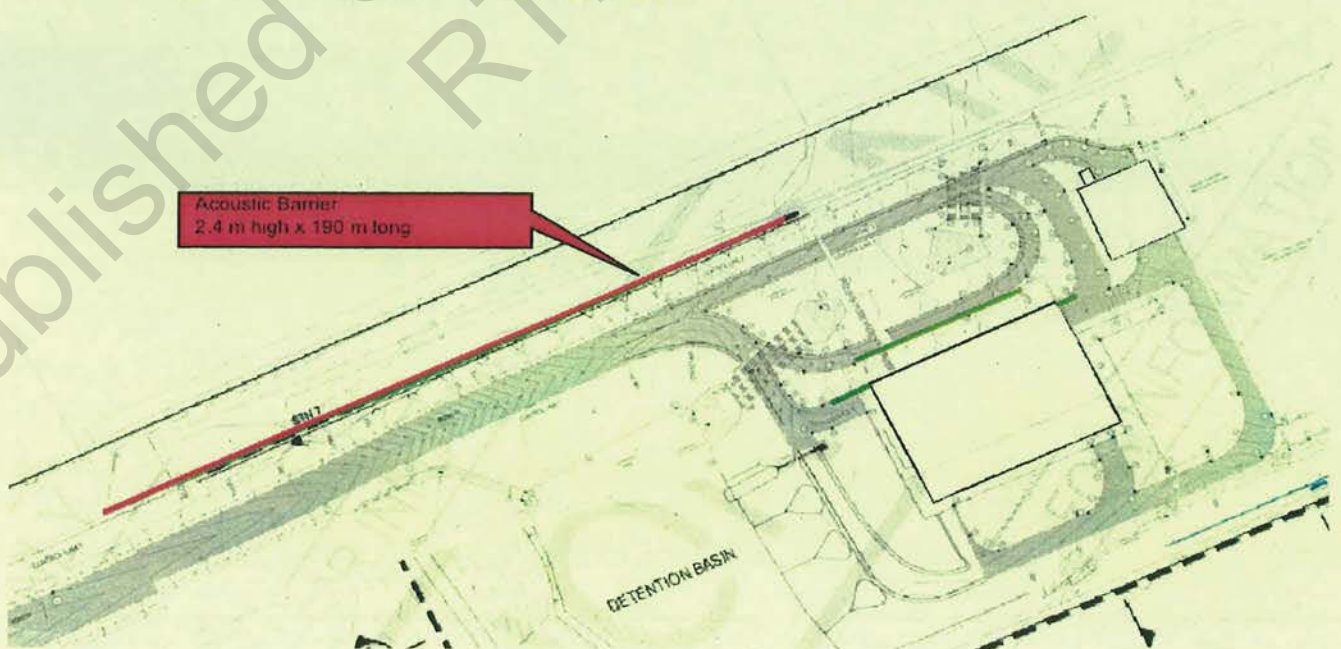
END OF CONDITIONS FOR SCHEDULE 2G

Schedule 2H – Maps / Figures

Figure 1 – Acoustic Barriers – Transfer Station structure



Schedule H Figure 2 – Acoustic Barrier – Bonnick Road



END OF CONDITIONS

Schedule H - Definitions

Words and phrases used throughout this licence or development approval are defined below:

Where a definition for a term used in this approval is sought and the term is not defined within this approval the definitions provided in the *Environmental Protection Act 1994*, its regulations, and Environmental Protection Policies shall be used.

Word Definitions

- (H1) **"administering authority"** means the Environmental Protection Agency or its successor.
- (H2) **"you"** means the Registered Operator or owner / occupier of the land which is the subject of this Development Approval.
- (H3) **"site"** means the place to which this environmental authority relates or the premises to which this development approval relates.
- (H4) **"authorised place"** means the place authorised under this environmental authority/development approval for the carrying out of the specified environmentally relevant activities.
- (H5) **"this authority"** means this environmental authority/development approval.
- (H6) **"authority"** means level 1 licence (without development approval), or level 1 approval (without development approval), or level 2 approval (without development approval) under the *Environmental Protection Act 1994*.
- (H7) **"approval"** means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.
- (H8) **"annual return"** means the annual return for the licence (with development approval) issued under the *Environmental Protection Act 1994* for this development.
- (H9) **"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.
- (H10) **"Disturbed Areas"** means land disturbed but not yet fully rehabilitated at the site, and includes areas used for land filling (*excluding* areas of exposed waste or any active waste disposal face), access roads (sealed and unsealed) and storage or stockpile areas.
- (H11) **"noxious"** means harmful or injurious to health or physical well being.
- (H12) **"offensive"** means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.
- (H13) **"nuisance sensitive place"** includes –
- dwellings such as houses, units, motels, resort accommodation, nursing homes, caravans and mobile homes (provided they are principally used as residences), and including the curtilage of any such places;
 - a surgery or other medical institution;
 - library, childcare centres, kindergartens, schools or other educational institutions;
 - a park or garden that is open to the public;
 - a protected area, or an area identified under a conservation plan as a critical habitat or area or major interest, under the Nature Conservation Act 1992;
 - a Marine Park under the Marine Parks Act 1992
- (H14) **"Noise Reduction Coefficient"** (NRC) means means the *arithmetic average of the sound absorption coefficients* at frequencies 250, 500, 1000 and 2000 Hz.
- (H15) **" $L_{\text{Aeq,adjT}}$ "** means an A-weighted sound pressure level of a continuous steady sound, adjusted for tonal character, that within a 1 hour period has the same mean square sound pressure of a sound that varies with time.
- (H16) **" $L_{\text{A 10, adj, 10 mins}}$ "** 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.

- (H17) "**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.
- (H18) "**L_A, max adj, 10 mins**" means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.
- (H19) "**commercial place**" means a place used as an office or for business for commercial purposes.
- (H20) "**Scrap Metal Collection**" means collection of scrap metal, using an excavator or other heavy machinery to load storage bins or trucks, for removal from the site.
- (H21) "**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.

- (H22) "**Independent Person**" means a person or entity not directly employed by the Registered Operator or owner / occupier of the land which is the subject of this development approval. An Independent person may be a person providing consulting advice to the Registered Operator for fee or reward.
- (H23) "**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 any under groundwater, or any part thereof.
- (H24) "**land**" in the "land schedule" of this document means land excluding waters and the atmosphere.
- (H25) "**mg/L**" means milligrams per litre.
- (H26) "**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 licensed place which contains soluble, suspended or miscible contaminants likely to have been derived from the said material.
- (H27) "**geotechnical stability of the landfill unit**" means a situation where instability related to the excessive settlement and subsidence caused by decomposition and consolidation of the wastes deposited in the landfill unit, and sliding instability of the unit slope has ceased.
- (H28) "**background noise level**" means either:
 LA90, T being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, or
 Labg, T being the A-weighted sound pressure level obtained using Fast response and arithmetically averaging the lowest levels of the ambient sound pressure level during a representative time period of not less than 15 minutes.
- (H29) "**landfill facility**" means all contiguous land and structures, other appurtenances, and improvements on the land used or associated with the disposal of waste.
- (H30) "**lower explosive limit**" means the lowest percent by volume of a mixture of explosive gases in air that will propagate a flame at 25°C and atmospheric pressure.
- (H31) "**special burial of waste**" means a disposal method where earth moving equipment pushes the wastes to the bottom of the working face or into an excavated hole, and immediately covers it with earth or other waste material.
- (H32) "**uppermost aquifer**" means the geologic formation nearest to the natural ground surface that is an aquifer. The term includes any aquifers that are likely to be hydraulically interconnected with this aquifer within the landfill facility property boundary.
- (H33) "**Special Burial of waste**" means a disposal method where earth moving equipment pushes the wastes to the bottom of the working face or into an excavated hold, and immediately covers that waste

with earth or other waste material.

- (H34) **"statistically significant"** means when a difference between groups of data is sufficient for a statistical test to reject the *null hypothesis*. For example, a requirement for a statistical test is that you have a minimum of two hypotheses, the null hypothesis and one or more alternative hypotheses. If you have data from two groups of bores (say A = background values and B = values at locations hydraulically down gradient of the landfill unit), and you wish to test whether A is different from B, *the null hypothesis* would be that A and B are from the same population (no significant difference). After performing the statistical test, you will either accept or reject the null hypothesis.
- (H35) **"liquid or semi-liquid waste"** means a waste which failed the paint filter liquid test described in the document SW-846 'Test Methods for Evaluation of Solid Wastes Physical/Chemical Methods' published by the United States Environmental Protection Agency; Revision 5; April 1998 or updated version thereof.
- (H36) **"ignitable, corrosive, reactive or toxic materials"** are materials as defined in the Queensland Government Environmental Protection Agency 'ERA 75: Guideline on landfill siting, design, operation and rehabilitation'; 2002.
- (H37) **"RL"** means height in metres above mean sea level
- (H38) **"recycling landfill diversion rate"** means a calculated figure using the following formula:
- $$\frac{\text{tonnes of recyclate}}{\text{total tonnes of potential recyclate}} \times 100$$
- (H39) **"Monitoring and Sampling Manual"** means the following documents or more recent additions or supplements to that document as such become available:
- Monitoring and Sampling Manual 2009 Environmental Protection (Water) Policy 2009**
Version 2 September 2010
- (H40) **"Noise Measurement Manual"** means the following document or more recent additions or supplements to that document as such become available:
- Environmental Protection Agency. (2000). *Noise Measurement Manual Third Edition*, Environmental Protection Agency, Brisbane, Australia.
- (H41) **"Air Quality Sampling Manual"** means the following document or more recent additions or supplements to that document as such become available:
- Department of Environment. (1997). *Air Quality Sampling Manual*, Department of Environment, Brisbane Australia.

END OF DEFINITIONS FOR SCHEDULE – H

END OF CONDITIONS

Karle Matt

From: Karle Matt
Sent: Wednesday, 7 December 2011 5:15 PM
To: 'Michael Grant'; 'ian.wolff@gympie.qld.gov.au'
Cc: Brain Tim (DERM)
Subject: Bonnick Road - Draft conditions
Attachments: Draft conditions of approval.pdf

Michael,

Following extensive consultation with colleagues within the Department, and review of guidelines etc, the attached Draft is provided to Gympie Regional Council for review and comment.

I provide this Draft to Gympie Regional Council at this stage to afford council officer Ian Wolffe opportunity to review and comment on the Draft before departing on leave. Internal reviews and drafting are still being undertaken by Departmental officers.

Further to our discussion earlier today, options regarding the application are as follows:

Given the application included both ERA's in the one application DERM can:

1. Approve the entire project;
2. Approve only part of the project;
3. Refuse the entire project.

Referring to Section 287, subsection 5 of SPA 2009, I don't believe DERM as concurrence agency has any other option.

You mentioned during the meeting recently that the two aspects of the project were integrated into one application on DERM's advice. Discussion with colleagues subsequent to that meeting have not revealed why DERM required the two ERA's to be integrated into one application. Hence, I don't see any reason why GRC couldn't apply for the Transfer Station again in the future, in the event a Part Approval is issued on this occasion.

A part approval may assist to expedite a decision about the landfill.

I provide the above information for discussion purposes only. DERM has not made a final decision on the project, and hence the above discussion should be received in the spirit for which it is intended – that being to assist explore options regarding this project in the shorter term.

Any comment about the attached Draft would be appreciated at your earliest opportunity. Once received, DERM will proceed to finalise internal reviews. If there is a need to provide another version of the Draft, DERM is agreeable to do so before a final decision is made.

I will send, as a separate email, an extension by agreement which will propose an extension date to the 31st January 2012 as per Council's suggestion earlier today.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Karle Matt
Sent: Wednesday, 7 December 2011 5:15 PM
To: 'Michael Grant'; 'ian.wolff@gympie.qld.gov.au'
Cc: Brain Tim (DERM)
Subject: Bonnick Road - Draft conditions
Attachments: Draft conditions of approval.pdf

Michael,

Following extensive consultation with colleagues within the Department, and review of guidelines etc, the attached Draft is provided to Gympie Regional Council for review and comment.

I provide this Draft to Gympie Regional Council at this stage to afford council officer Ian Wolffe opportunity to review and comment on the Draft before departing on leave. Internal reviews and drafting are still being undertaken by Departmental officers.

Further to our discussion earlier today, options regarding the application are as follows:

Given the application included both ERA's in the one application DERM can:

1. Approve the entire project;
2. Approve only part of the project;
3. Refuse the entire project.

Referring to Section 287, subsection 5 of SPA 2009, I don't believe DERM as concurrence agency has any other option.

You mentioned during the meeting recently that the two aspects of the project were integrated into one application on DERM's advice. Discussion with colleagues subsequent to that meeting have not revealed why DERM required the two ERA's to be integrated into one application. Hence, I don't see any reason why GRC couldn't apply for the Transfer Station again in the future, in the event a Part Approval is issued on this occasion.

A part approval may assist to expedite a decision about the landfill.

I provide the above information for discussion purposes only. DERM has not made a final decision on the project, and hence the above discussion should be received in the spirit for which it is intended – that being to assist explore options regarding this project in the shorter term.

Any comment about the attached Draft would be appreciated at your earliest opportunity. Once received, DERM will proceed to finalise internal reviews. If there is a need to provide another version of the Draft, DERM is agreeable to do so before a final decision is made.

I will send, as a separate email, an extension by agreement which will propose an extension date to the 31st January 2012 as per Council's suggestion earlier today.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

R

Karle Matt

From: Karle Matt
Sent: Wednesday, 7 December 2011 5:29 PM
To: 'Michael Grant'
Subject: Bonnic Rd Extension
Attachments: grc ext 2012.pdf

Hello Michael,

As discussed earlier today, please find attached an agreement by extension for the Bonnick Road Landfill.

If agreeable, please sign the attached form and return to DERM as soon as possible.

I am on child minding duties here and there during December, and will be on leave Tuesday's and Thursday's for a few weeks. Hence, I won't be in tomorrow, and I am on inspections in Bundaberg on Friday. I will however look at emails on Friday morning and afternoon this week, and will be in the office several days next week.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Oakley Richard
Sent: Thursday, 8 December 2011 12:14 PM
To: Karle Matt
Cc: Ameer Omar
Subject: RE: Conditions of approval.doc
Attachments: Conditions of approval (2) To Matt from Rich O 8 Dec.doc

Hi Matt,

Good work, managed to have a flick through and make some comments and suggestions, feel free to accept or reject as you see fit.

Feel we must have some reporting and submission requirements on LFG, GW, Leachate etc , and care with the use of permeability specs of particular note my comments 9-11 as below

"The GCL layer component must have a permeability of less than equal to 1×10^{-9} (equivalent to 600mm of clay with the same permeability) it WILL NOT actually be 600mm thick it is a manufactured synthetic layer probably <10mm thick. While it is manufactured as a layered material it is not put down in layers like clay barriers have to be.

Again it s important that there is some quality control on the materials fabrication and installation, ie a Materials Quality Assurance and a Construction Quality Assurance procedure CQA

My concerns remain around the leachate management and the Bioreactor "investigation" and how we will assess its performance as compliant .

Please call if you need to discuss, happy to expand upon any comments

regards

Richard Oakley

Strategic Compliance
 Environmental Performance and Coordination
 Environment and Natural Resource Regulation, DERM

Telephone: [CTPI 49-Sch4-M](tel:0733817560)

Facsimile: 07 3381 7560

email richard.oakley@derm.qld.gov.au

www.derm.qld.gov.au

From: Karle Matt
Sent: Wednesday, 7 December 2011 1:55 PM
To: Oakley Richard
Subject: Conditions of approval.doc

Hi Richard,

I'm planning to send off a copy of the Draft landfill conditions of approval to Gympie Regional Council this afternoon. Since the copy I emailed to you, I've continued with some changes, and have ensured all condition numbers are correct etc.

Do you have any final comments for me to note before a Draft is sent to the client?

Regards

Karle Matt

From: Bob Fredman [Bob.Fredman@gympie.qld.gov.au]
Sent: Tuesday, 10 January 2012 2:16 PM
To: Karle Matt
Subject: RE: Bonnick Road

Please keep the door open. We will rise to the occasion (I hope).

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 10/1/12 9:31 AM >>>
 Understood Bob.

As you'd appreciate, the site is located extremely close to existing residents, and potential future ones. The new landfill extension also proposes to connect to an existing unlined facility within a catchment. Within reason, and as I'm sure you'd agree, it is appropriate for DERM to pursue outcomes regarding the project that assist to protect those receptors.

For your reference, additional information regarding the Transfer Station was received from GRC on Friday 23rd December 2011, and comments about the DRAFT conditions for the landfill extension received from GRC on Friday 6th January 2012. I will now assess the additional noise information for the Transfer Station and the comments re the Draft conditions and provide a further Draft for consideration.

A meeting has been proposed by GRC re the project for 18th January 2012. I will likely respond to that invitation today, and aim to provide an additional draft to GRC prior to that meeting..

Regards

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Bob Fredman [mailto:Bob.Fredman@gympie.qld.gov.au]
Sent: Monday, 9 January 2012 8:21 AM
To: Karle Matt
Subject: RE: Bonnick Road

Thanks. No. It was intended for Ian Wolff. But for your info, confidentially, some of us here are getting very worried about our progress on getting our bigger waste management issues resolved.

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 6/1/12 4:45 PM >>>
 Hello Bob,

I see you sent me the below email this afternoon. Are you seeking a reply?

Regards

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Bob Fredman [mailto:Bob.Fredman@gympie.qld.gov.au]
Sent: Friday, 6 January 2012 4:22 PM
To: Karle Matt
Subject: Re: Bonnick Road

R

Thanks. I would have been very concerned they used the term "propose to refuse" at this stage. It is inappropriate language which is not conducive to reaching a solution to a very serious problem.

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 4/1/12 2:42 PM >>>

Hello Ian,

Thanks for your call earlier today. For clarity, the following confirms our discussion:

1. DERM provided some Draft conditions relating to the Bonnick Road landfill application to GRC in December 2011.
2. The draft conditions proposed to refuse the transfer station and approve the landfill subject to conditions (a part approval under SPA 2009).
3. DERM seeks comment from GRC regarding those draft conditions.
4. DERM has since received additional supporting information from GRC for the transfer station.
5. DERM will assess the information submitted relating to the transfer station as a priority.
6. DERM will provide a draft of any conditions proposed.
7. Timing will dictate, but it would be preferable for DERM to receive comments from GRC about the draft landfill conditions asap and prior to any additional or final draft conditions (which may include both the landfill and the transfer station) being provided to GRC for final comment.
8. The current decision due date is 31st January 2012. Where further consultation is required between parties, DERM will be agreeable to an extension of the decision making period if necessary and / or desired by GRC.

Hopefully you concur with the above summary?

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken

R

reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Published on DES Disclosure Log
RTI Act 2009

Karle Matt

From: Ian Wolff [Ian.Wolff@gympie.qld.gov.au]
Sent: Tuesday, 10 January 2012 3:05 PM
To: Karle Matt
Cc: CTPI 49-Sch4-1@ane.com.au; CTPI 49-Sch4-1@exemail.com.au; Bob Fredman; Grayden Curry; Michael Grant; Tanya Allen
Subject: Fwd: 2298 - Email - SW - Comments
Attachments: 2298 - Email - SW - Comments
 ATTN: Matt Karle - Department of Environment and Resource Management

Matt

In respect of your previous e-mail regarding the addendum to the Acoustic Assessment for the Bonnick Road Waste Management Facility redevelopment, please find attached an e-mail from Council's consultant - Mr CTPI 49-Sch4-1 from Air Noise Environment Pty Ltd addressing the issues raised in your e-mail.

I note that in this response, CTPI 49-S indicates that the transfer station adds minimal additional noise impact.

Should you require further information in respect of this addendum Acoustic Assessment, I recommend that you contact CTPI 49-S directly on telephone (07) 3245 7808.

Direct contact with CTPI 49-S in respect of acoustic matters will expedite the assessment process for both the landfill extension and transfer station construction so that both approvals can be issued prior to 31 January 2012.

Also, could you please confirm at your earliest available opportunity, the availability of Mr Tim Brain and yourself for a meeting with Council Officers and relevant consultants next Wednesday, 18 January 2012 as per my previous invitation.

I look forward to your response.

Ian Wolff
 Acting Director
 Community Services Directorate
 Gympie Regional Council
 ph. (07) 5481 0611
 e-mail: ian.wolff@gympie.qld.gov.au

 This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Karle Matt
Sent: Tuesday, 10 January 2012 9:31 AM
To: 'Bob Fredman'
Subject: RE: Bonnick Road

Understood Bob.

As you'd appreciate, the site is located extremely close to existing residents, and potential future ones. The new landfill extension also proposes to connect to an existing unlined facility within a catchment. Within reason, and as I'm sure you'd agree, it is appropriate for DERM to pursue outcomes regarding the project that assist to protect those receptors.

For your reference, additional information regarding the Transfer Station was received from GRC on Friday 23rd December 2011, and comments about the DRAFT conditions for the landfill extension received from GRC on Friday 6th January 2012. I will now assess the additional noise information for the Transfer Station and the comments re the Draft conditions and provide a further Draft for consideration.

A meeting has been proposed by GRC re the project for 18th January 2012. I will likely respond to that invitation today, and aim to provide an additional draft to GRC prior to that meeting..

Regards

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Bob Fredman [mailto:Bob.Fredman@gympie.qld.gov.au]
Sent: Monday, 9 January 2012 8:21 AM
To: Karle Matt
Subject: RE: Bonnick Road

Thanks. No. It was intended for Ian Wolff. But for your info, confidentially, some of us here are getting very worried about our progress on getting our bigger waste management issues resolved.

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 6/1/12 4:45 PM >>>
Hello Bob,

I see you sent me the below email this afternoon. Are you seeking a reply?

Regards

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Bob Fredman [mailto:Bob.Fredman@gympie.qld.gov.au]
Sent: Friday, 6 January 2012 4:22 PM
To: Karle Matt
Subject: Re: Bonnick Road

Thanks. I would have been very concerned they used the term "propose to refuse" at this stage. It is inappropriate language which is not conducive to reaching a solution to a very serious problem.

R

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 4/1/12 2:42 PM >>>
Hello Ian,

Thanks for your call earlier today. For clarity, the following confirms our discussion:

1. DERM provided some Draft conditions relating to the Bonnick Road landfill application to GRC in December 2011.
2. The draft conditions proposed to refuse the transfer station and approve the landfill subject to conditions (a part approval under SPA 2009).
3. DERM seeks comment from GRC regarding those draft conditions.
4. DERM has since received additional supporting information from GRC for the transfer station.
5. DERM will assess the information submitted relating to the transfer station as a priority.
6. DERM will provide a draft of any conditions proposed.
7. Timing will dictate, but it would be preferable for DERM to receive comments from GRC about the draft landfill conditions asap and prior to any additional or final draft conditions (which may include both the landfill and the transfer station) being provided to GRC for final comment.
8. The current decision due date is 31st January 2012. Where further consultation is required between parties, DERM will be agreeable to an extension of the decision making period if necessary and / or desired by GRC.

Hopefully you concur with the above summary?

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Think B4U Print

1 ream of paper = .6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all

its attachments.

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Karle Matt

Sent: Tuesday, 10 January 2012 4:31 PM

To: 'grayden.curry@gympie.qld.gov.au'; 'ian.wolff@gympie.qld.gov.au'

Subject: Landfill guideline

Grayden and Ian,

Further to our discussion this afternoon, please see internet link below for DERM guideline for landfill design:

<http://www.derm.qld.gov.au/register/p01312aa.pdf>

I have referred to this guideline as part of this assessment, as well as other recently approved landfills (including the relatively new Bundaberg Regional Council landfill at Cedars Road) for current and best practice.

The above guideline is currently being updated, as some aspects of the guideline are no longer considered current. It is the case that some aspects of the Bonnick Road proposal are not consistent with the guideline, and hence I have sought advice from a number of colleagues within the Department regarding the proposal.

I will reply to Ian regarding the meeting proposed for 18th January 2012 as soon as I can speak with Tim, whom I see is also invited to attend the meeting.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Karle Matt
Sent: Tuesday, 10 January 2012 9:46 AM
To: 'Tania Stenholm'
Subject: RE: GRC Ref 2010-1765
Attachments: DOC131211.pdf

Hi Tania,

The decision making period for this application was extended by request of the applicant. Please see attached Extension by Agreement.

A copy was posted to council in December 2011. Copy attached for your records if necessary.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Tania Stenholm [mailto:Tania.Stenholm@gympie.qld.gov.au]
Sent: Tuesday, 10 January 2012 8:29 AM
To: Karle Matt
Subject: GRC Ref 2010-1765

Morning Matt

Just touching base about this application.

We have your due date for a decision as around 16 December but haven't received any subsequent notification of an extension.

If something has been sent to Council, as Assessment Manager, is it possible for you to e-mail me a copy. The correspondence may be mixed up at our end with correspondence to Council as applicant.

Regards

R

Tania Stenholm

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: [CTPI 49-Sch4-Name]@ane.com.au]
Sent: Tuesday, 10 January 2012 10:51 AM
To: Ian Wolff
Subject: 2298 - Email - SW - Comments

Hi Ian,

I just left a message to call back with the receptionist. In relation to the DERM queries:

1) The 5.0 m noise contours were considered specifically because we were interested in the vacant land to the north. A height of 5.0 m anticipates the potential for 2-storey sensitive receptors to be constructed. In the original report, 2.0 m contours was used as a default height because we were also interested in ground floor noise levels at existing receptors.

2) Initially we left the landfill out (see Table 1.1, Item d), as it was understood there were pre-approval processes underway for the landfill extension. However, it sounds like DERM is concerned over cumulative impacts also (landfill + transfer station).

You will find that, in terms of noise predictions, the transfer station adds minimal additional noise impact compared to the landfill extension. Any non-compliances will mainly be a result of the landfill extension, which they seem willing to approve as it is a continuation of the existing site.

I'll be in the office the rest of the day to discuss.

Regards,

[CTPI 49-Sch4-Name]
 Environmental Engineer



Air Noise Environment Pty Ltd
 Unit 3, 4 Tombo Street
 Capalaba
 QLD 4157

Tel: +61 7 3245 7808
 Fax: +61 7 3245 7809
 Mobile: [CTPI 49-Sch4-M]
 Email: [CTPI 49-Sch4-I]@ane.com.au
 Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.



**GYMPIE
REGIONAL
COUNCIL**

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

26/5/12
GTS
CMK

Our Ref: 2-9-13-0003 MRG:CMK01156
Your Ref: MBH2951-2

10 May 2012

RECEIVED

15 MAY 2012

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services-North
South East Region
Department of Environment and Heritage Protection
PO Box 101
Maryborough QLD 4650

Dear Sir

**RE: Concurrence Agency conditions- Redevelopment of
Bonnick Road Waste Management Facility**

I refer to your letter dated 1 May 2012 regarding a compromise to the authorised hours to emit audible noise from the Transfer Station located at the Bonnick Road Waste Management Facility.

I confirm that Council agrees with the proposal outlined on page one of your letter.

Your cooperation regarding this matter is appreciated.

Yours faithfully

CTPI 49-Sch4-Signature

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER

CC: Tania Stenholm

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

Planning & Development

Phone: (07) 5481 0644
Email: planning@gympie.qld.gov.au

Item # 1756038

SOR/108081

Noted.

17-7-12
① TB
② JH
③ MK
CH

10 July 2012

C/C: Department of Environment & Resource Management
PO Box 101
MARYBOROUGH QLD 4650

For your information.

Yours faithfully

CTPI 49-Sch4-Signatu

for C. MANSON
ACTING CHIEF EXECUTIVE OFFICER

Enc. Decision Notice - MCU – Bonnick Road

RECEIVED

16 JUL 2012

**DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH**

Gympie Regional Council

Development Application 2010-1765 Decision Notice

Issued under the Sustainable Planning Act 2009 (S334 and S335)

The Development Application 2010-1765 for the purpose of Material Change of Use of Premises – Public Utility (Expansion of Waste Management Facility) and Environmentally Relevant Activity (ERA #60 2(e) Waste disposal operating facility for disposing of, in a year, more than 20 000t to 50 000t and ERA #62 – Waste Transfer Station Operation) was assessed and:-

Approved with Conditions

The decision was made by Gympie Regional Council on **4 July 2012**

Unless the use has commenced beforehand, this permit will lapse on 4 July 2016

Local Government Area: *Gympie Regional Council*

The following schedule provides all the relevant details.

PROPERTY DETAILS

Street Address & Locality: *Bonnick Road, Gympie*

RPD: *Lot 542 MCH 801883*

Parish: *Gympie*

APPLICANT'S DETAILS

Name: *Gympie Regional Council*

Postal Address: *PO Box 155, GYMPIE QLD 4570*

REFERRAL AGENCIES

Concurrence Agencies

- 1) Development Application Lodgement
Department of Environment and Resource Management
GPO Box 15155
CITY EAST QUEENSLAND 4002

APPLICABLE CODES

Codes for which self assessable aspects of this development must comply with:

- Nil.

Gympie Regional Council

Development Application 2010-1765 Decision Notice

CONDITIONS

Assessment Manager's Conditions

Section 1 Conditions to be Satisfied Prior to Commencement of the Approved Use

- 1.1 The development herein approved may not start until the following development permits have been issued and complied with as required -
- (a) Development Permit for Building Work
 - (b) Development Permit for Operational Work (Siteworks for Transfer Station, Roadwork including Kerb and Channel and Associated Drainage, Internal Access and Vehicle Parking).
- 1.2 Minor access to the development is to be constructed in accordance with the requirements of Council's Infrastructure Works Code – Drawing No R-05.
- 1.3 Major access to the landfill/transfer station area is to be constructed to a road intersection standard, designed for haul traffic to enter/exit in both directions.
- 1.4 Car parking and all trafficable areas associated with the transfer station are to be sealed pavement.
- 1.5 Internal access to the landfill operations is to be a minimum of dust-reduced gravel.
- 1.6 Off-street car parking is to be provided in accordance with the Vehicle Parking and Access Code of Council's Planning Scheme and Planning Scheme Policy 8 - Infrastructure Works.
- 1.7 (i) Connection is to be made to Council's existing Water Supply and Sewerage reticulation systems, including the provision of a back flow device, at no cost to Council. Connection shall be in accordance with a permit for Plumbing and Drainage Work approving the required hydraulic plans and specifications, as prepared by a recognised building hydraulics engineer, for such works.
- (ii) The backflow prevention device is to be maintained and tested in accordance with Council's approval.
- 1.8 All night lighting must be designed and constructed so that light emitted from the subject land does not cause nuisance or annoyance to residents or traffic in the immediate vicinity.
- 1.9 A master water meter shall be installed to service the full development with individual meters installed to service each title to the satisfaction of Council's Chief Executive Officer.
- 1.10 Bonnick Road is to be upgraded. Specifically the following works are to be undertaken in accordance with plans and specifications approved by Council's Chief Executive Officer:
- (a) from Corella Road to the eastern boundary of Lot 8 RP910964 is to be constructed to a 12 metre wide sealed road with kerb and channel both sides with associated drainage;

Gympie Regional Council

Development Application 2010-1765 Decision Notice

- (b) from the eastern boundary of Lot 8 RP910964 to 20 metres past the centerline of the most eastern access to the development is to be constructed to a 9.5 metre wide sealed road with kerb and channel and associated drainage to the southern side and table drain on the northern side; and
- (c) from 20 metres past the centerline of the most eastern access to the remaining frontage of the development site is to be of a 7 metre seal on a 9.5 metre formation with kerb and channel and associated drainage on the southern side and a table drain on the northern side.

Note: Bonnick Road is classified as an Urban Sub-Arterial road for design standards from Cooloola Shire Planning Scheme Policy 8: Infrastructure Works.

- 1.11 (i) Where any works associated with this development approval are to be carried out on Council controlled land, such as road, park, drainage reserves, or the like, a Traffic Management Plan shall be submitted to Council for review prior to the pre-start meeting for such works.
(ii) The Traffic Management Plan shall be constantly reviewed and revised throughout the construction phase of the project until the works are accepted "On-maintenance" by Council.
- 1.12 Erosion and sediment control measures are to be designed and provided in accordance with the International Erosion Control Association (Australasia) 2008's "*Best Practice Erosion and Sediment Control for Building and Construction Sites*". The design shall be submitted to Council for approval with subsequent development applications for operational work.
- 1.13 The nominated haul route from the Bonnick Road transfer station to the Toolara landfill site is to be submitted to Council's Design Services Division and approved prior to the transportation of any waste.
- 1.14 A copy of the Site Based Management Plans required to be prepared by the Department of Environment and Resource Management is to be submitted to Council's Planning and Development Department for its records.
- 1.15 A copy of the Noise Management Plan required to be prepared by the Department of Environment and Resource Management is to be submitted to Council's Planning and Development Department for its records.
- 1.16 Landscaping is to be undertaken as indicated on the proposal plans but additionally at the development entrance and public access areas.
- 1.17 (i) Prior to undertaking the landscaping work a properly prepared Landscape Plan in accordance with Council's Planning Scheme Policy 4: Landscaping is to be submitted to and approved by Council's Chief Executive Officer. The landscape plan is to denote areas of existing vegetation and/or existing trees proposed to be retained.
(ii) Landscaping works are to be completed in accordance with the approved landscape plans.

Gympie Regional Council

Development Application 2010-1765 Decision Notice

Section 2 General Condition Relevant to the Ongoing Use

- 2.1 The development shall be generally in accordance with the plan/s submitted with the application as outlined below:

Drawing Title	Drawn By	Date
11116-01B	Bellas & Reitano	24.05.12
11116-02B	Bellas & Reitano	24.05.12
11116-04B	Bellas & Reitano	24.05.12
41-16797-C021 (as manually amended)	GHD	25/11/09
SK-A01	GHD	12.05.09
SK-A02	GHD	12.05.09
SK-A03	GHD	12.05.09
SK-A04	GHD	12.05.09
SK-A05	GHD	12.05.09
SK-A06	GHD	12.05.09
SK-A07	GHD	12.05.09
SK-A08	GHD	12.05.09
SK-A10	GHD	12.05.09
SK-A11	GHD	12.05.09

- 2.2 Loading/unloading operations shall be conducted within the site and vehicles waiting to be loaded/unloaded shall stand entirely within the site.
- 2.3 The landscaping shall be maintained (watering, fertilising, mulching, weeding, and the like) at all times.

Concurrence Agency's Conditions

Conditions applicable to this approval imposed by the following Concurrence Agencies:

1. The Department of Environment and Resource Management is a concurrence agency with regard to this development approval. The attached concurrence agency response from this department, dated 29 May 2012, forms part of this Decision Notice.

APPROVAL TYPE

Development Permit

FURTHER DEVELOPMENT PERMITS REQUIRED

Development Permit for Building Work; and

Development Permit for Operational Work (Siteworks for Transfer Station, Roadwork including Kerb and Channel and Associated Drainage, Internal Access and Vehicle Parking).

R

Gympie Regional Council

Development Application 2010-1765 Decision Notice

RIGHTS OF APPEAL

See attached extracts from the Sustainable Planning Act 2009 for Rights of Appeal.

ASSESSMENT MANAGER

Name: Gympie Regional Council

Signature:

CTPI 49-Sch4-Signature

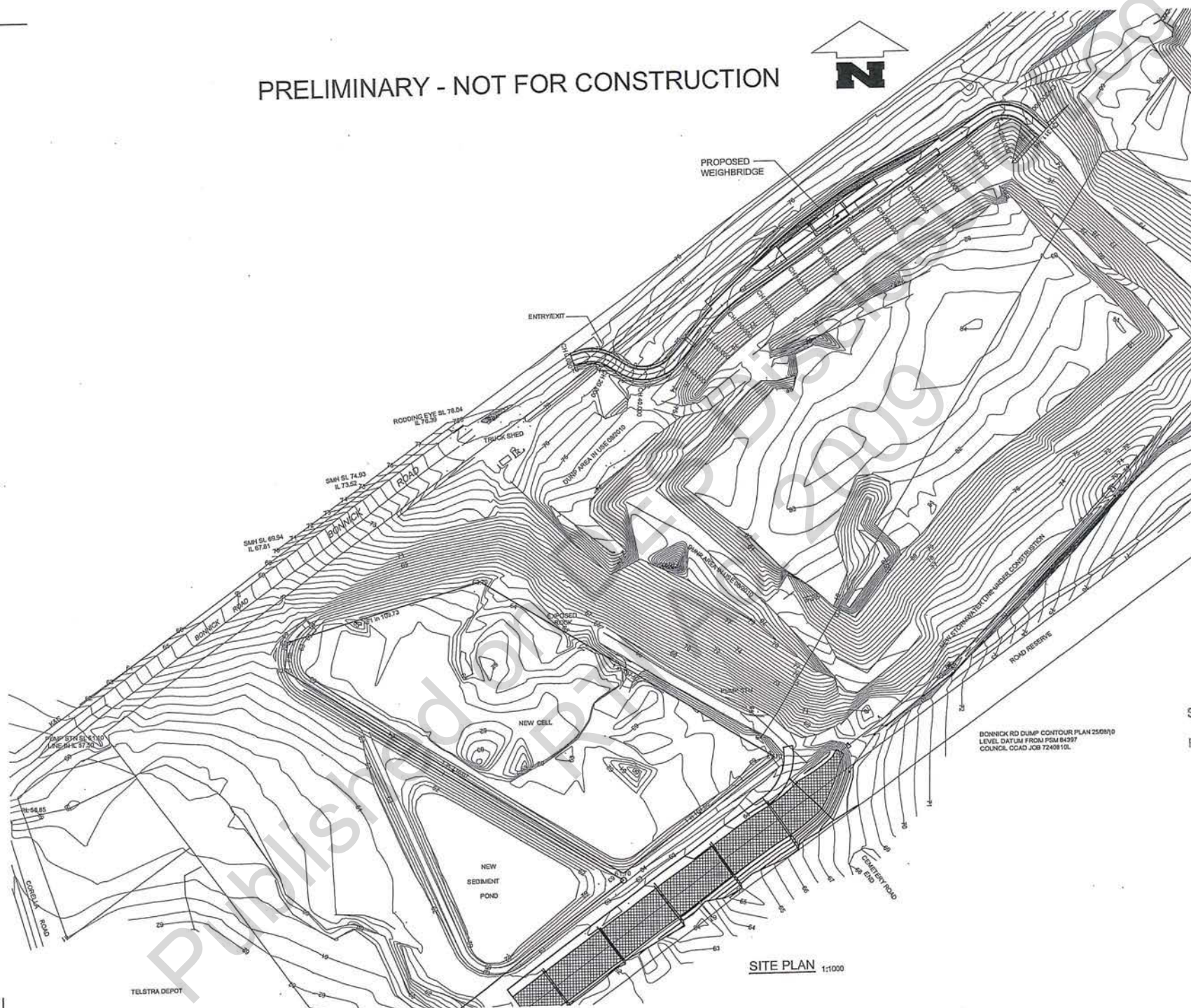
Date: 10 July 2012

TANIA STENHOLM
AUTHORISED DELEGATE
MANAGER DEVELOPMENT AND COMPLIANCE



CONSULTING ENGINEERS & PROJECT MANAGERS

Email admin@bellasandreitano.com.au



CTPI 49-Sch4-Sign

Signature ..

File No. 10-0765 Date 10 / 7 / 12

E		
O		
C		
R	RE-ISSUED FOR DRAFT ONLY	24.05.12
X	ISSUED FOR REVIEW	07.12.11
No	REVISION	DATE

CLIENT:
GYMPIE REGIONAL COUNCIL

ADDRESS:
BONNICK ROAD
GYMPIE

PROJECT:	PROPOSED WEIGHBRIDGE
----------	----------------------

DRAWING TITLE:
SITE PLAN

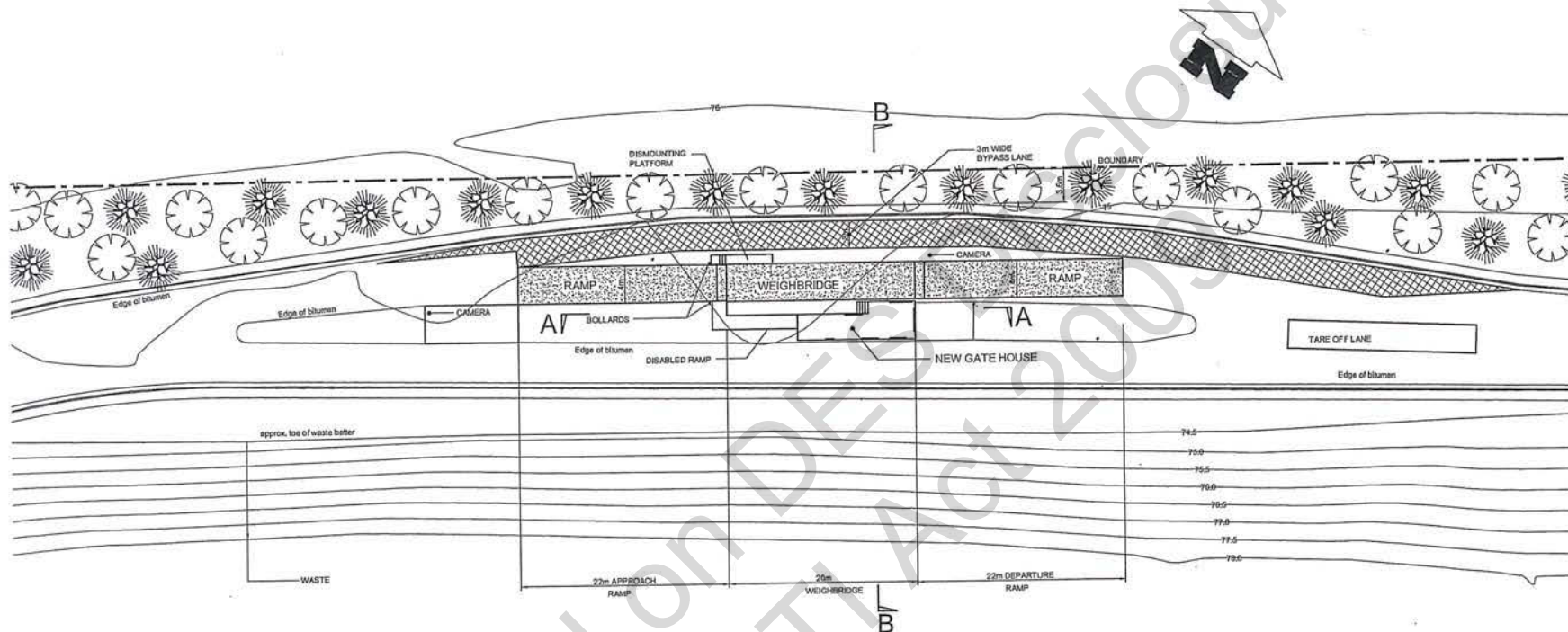
SCALE 1:1000 EAS	DRAWN: AR
DATUM: -	

Original drawing size:	A1
DRG No	11116-01 B

PRELIMINARY - NOT FOR CONSTRUCTION



**BELLAS & REITANO
PTY LTD**
CONSULTING ENGINEERS & PROJECT MANAGERS
1269A Sandgate Road Nundah
PO Box 140 Nundah QLD 4012
Phone (07) 3861 9566
Fax (07) 3861 9577
Email admin@bellasandreitano.com.au



Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Signa

Signature

File No. 10-0765 Date 10 / 7 / 12

PLAN 1:250

0 5 10 12.5
SCALE 1:250

REVISION	DATE
1	24.05.12
2	07.12.11
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

CLIENT:
GYMPIE REGIONAL COUNCIL
ADDRESS:
BONNICK ROAD
GYMPIE
PROJECT:
PROPOSED WEIGHBRIDGE

DRAWING TITLE:
PLAN
SCALE 1:250 EAS
DRAWN: AR
DATE:
Original drawing size: A1
DRG No 11116-02 B

PRELIMINARY - NOT FOR CONSTRUCTION



**BELLAS & REITANO
PTY LTD**

CONSULTING ENGINEERS & PROJECT MANAGERS

1280A Sandgate Road Nundah
PO Box 140 Nundah QLD 4012

Phone (07) 3861 9566

Fax (07) 3861 9577

Email admin@bellasandreitano.com.au

Gympie Regional Council
APPROVED PLAN

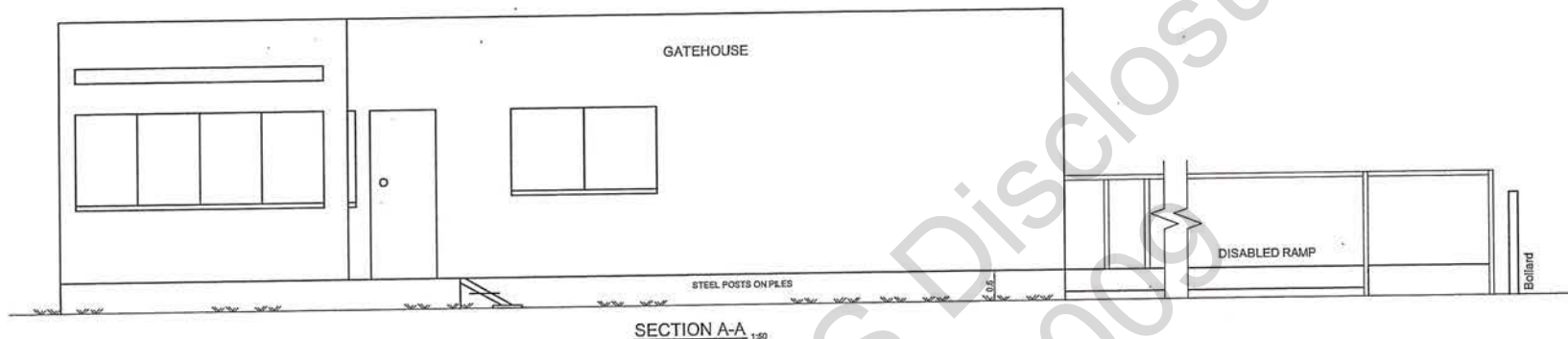
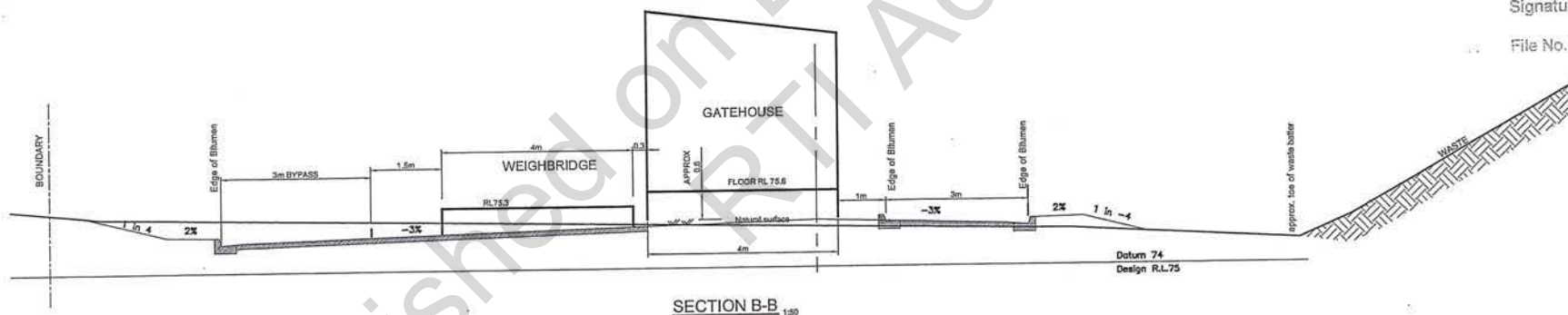
CTPI 49-Sch4-Sig

Signature

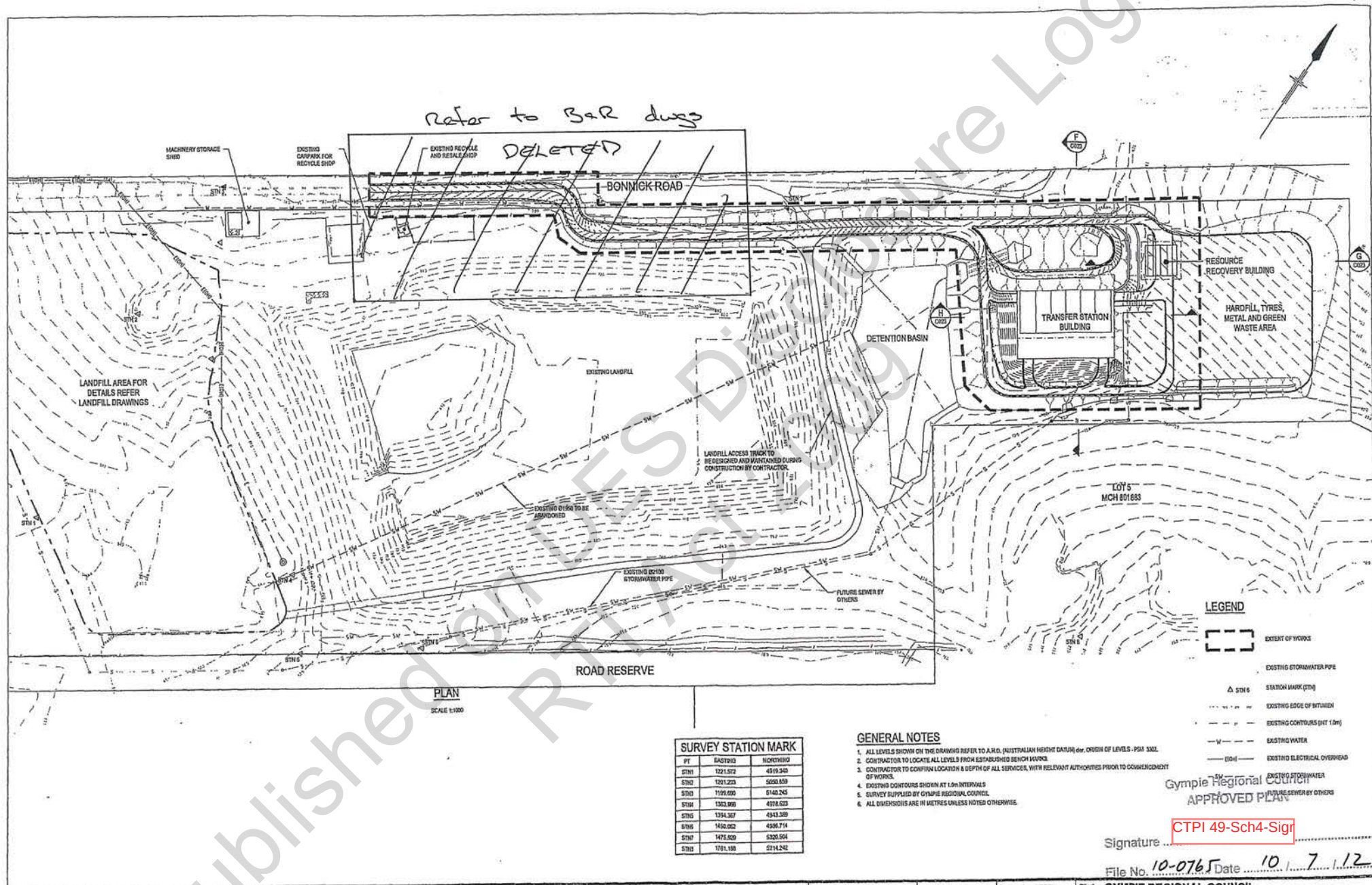
File No. 10-0765 Date 10 / 7 / 12

REVISION	
RE-ISSUED FOR DRAFT ONLY	24.05.12
ISSUED FOR REVIEW	07.12.11
NO REVISION	DATE
CLIENT: GYMPIE REGIONAL COUNCIL	
ADDRESS: BONNICK ROAD GYMPIE	
PROJECT: PROPOSED WEIGHBRIDGE	
DRAWING TITLE: SECTIONS	
SCALE 1:50 EAS	DRAWN: AR
DATUM:	A1
Original drawing size:	
DRG No	11116-04 B

Page 578 of 940



0 0.5 1.0 2.0 2.5
SCALE 1:50



SURVEY STATION MARK		
PT	EASTING	NORTHING
STN1	1221.572	4919.340
STN2	1221.223	5000.859
STN3	1199.050	5140.245
STN4	1363.969	4978.623
STN5	1394.367	4943.389
STN6	1430.052	4906.714
STN7	1475.929	5320.504
STN8	1781.108	5214.242

- GENERAL NOTES**
1. ALL LEVELS SHOWN ON THE DRAWING REFER TO A.M.D. (AUSTRALIAN HEIGHT DATUM) DER. ORIGIN OF LEVELS - PSN 3302.
 2. CONTRACTOR TO LOCATE ALL LEVELS FROM ESTABLISHED BENCH MARKS.
 3. CONTRACTOR TO CONFIRM LOCATION & DEPTH OF ALL SERVICES, WITH RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT OF WORKS.
 4. EXISTING CONTOURS SHOWN AT 1.0m INTERVALS.
 5. SURVEY SUPPLIED BY GYMPIE REGIONAL COUNCIL.
 6. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

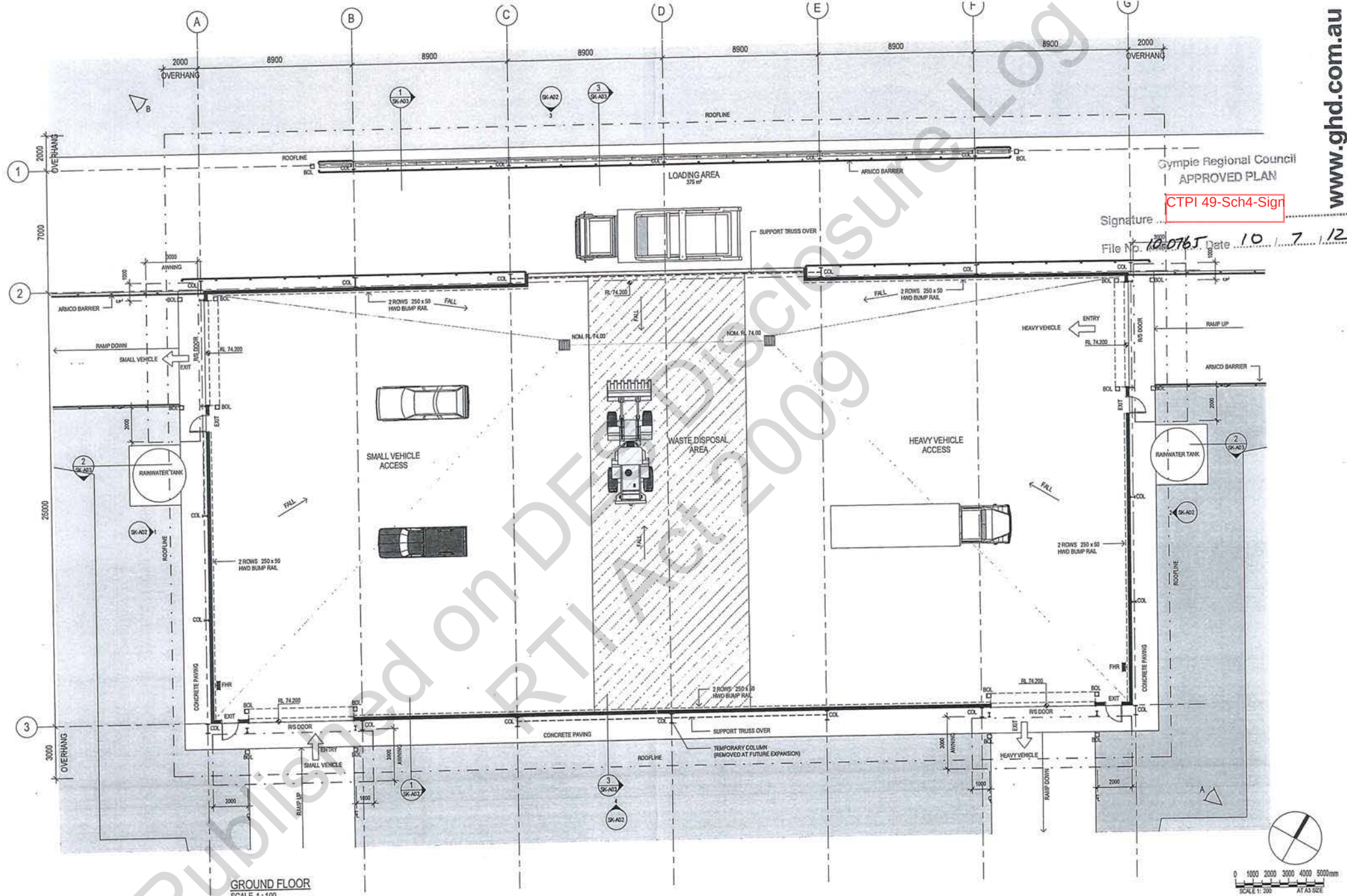
- LEGEND**
- EXTENT OF WORKS
 - EXISTING STORMWATER PIPE
 - Δ STN 6 STATION MARK (STN)
 - EXISTING EDGE OF MATURED
 - EXISTING CONTOURS (INT 1.0m)
 - EXISTING WATER
 - EXISTING ELECTRICAL OVERHEAD
 - EXISTING STORMWATER
 - FUTURE SEWER BY OTHERS

Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sign

Signature
File No. 10-0765 Date 10 / 7 / 12

0 APPROVED ISSUE NM <i>CTI</i> 2/3/12 Design Check Approved Date		Scale 1:1000 AT ORIGINAL SIZE 0 10 20 30 40 50m		CLIENTS PEOPLE PERFORMANCE Level 4, 201 Charles St Brisbane QLD 4000 Australia GHD Box 163 Brisbane QLD 4001 T 61 7 3310 3000 F 61 7 3310 3033 E brennall@ghd.com W www.ghd.com		DO NOT SCALE Conditions of Use: This document may only be used by GHD's client (and any other person who GHD has agreed not use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.		Drawn: N.MACKAY Drafting Check: <i>CTPI 49-Sch4-Sign</i> Approved: <i>CTPI 49-Sch4-Sign</i> Date: 25/11/12 Scale: AS SHOWN		Client: GYMPIE REGIONAL COUNCIL Project: BONNICK ROAD WMF ROADWORKS Title: OVERALL LAYOUT PLAN Drawing No: 41-16797-C021 Rev: 0	
--	--	--	--	---	--	--	--	--	--	---	--



GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

date 12.05.09

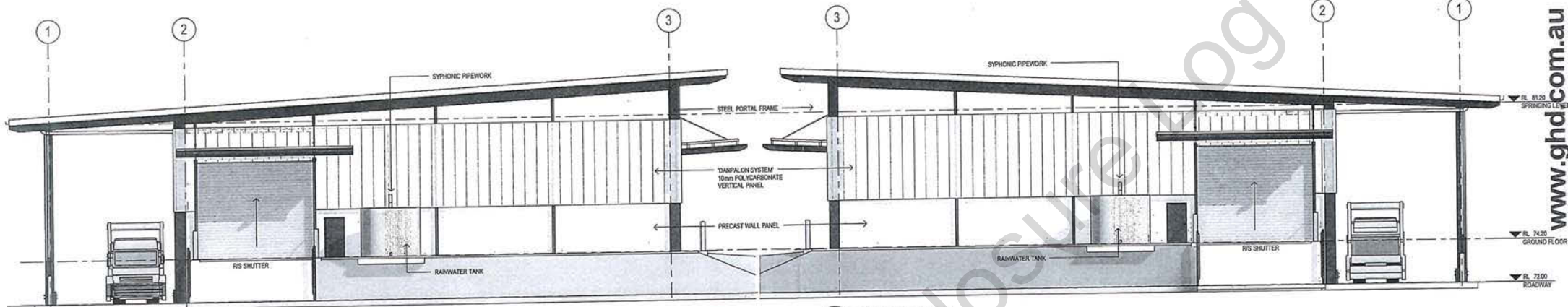
job no. 41-16797

SK-A01
Page 500 of 940



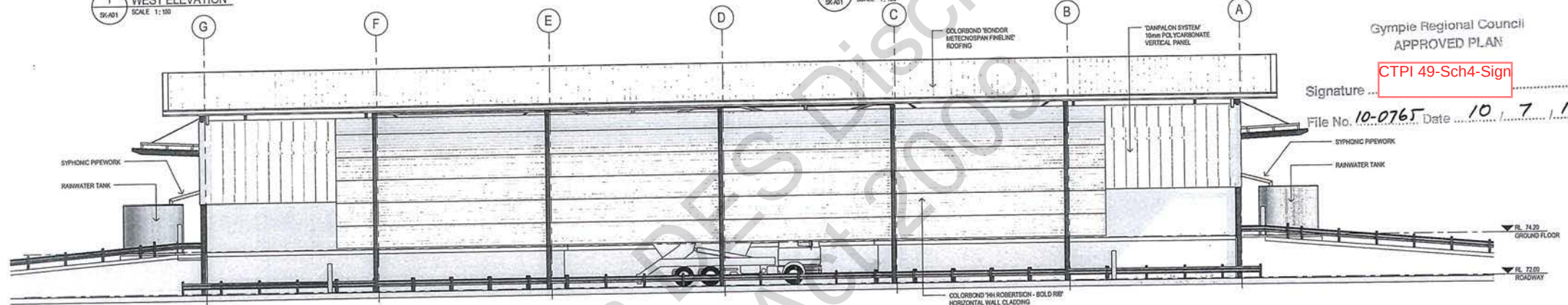
18-112 TRANSFER STATION

File A

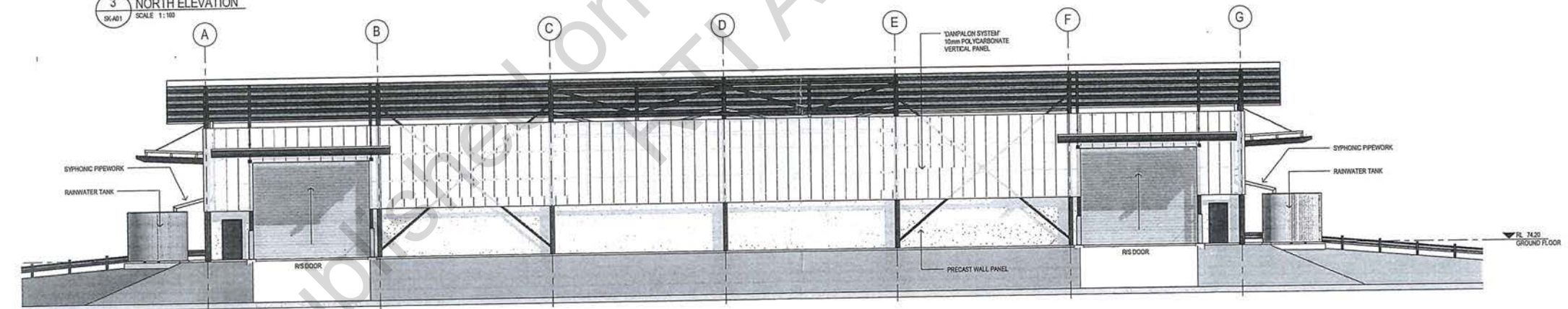


1 WEST ELEVATION
SK/A01 SCALE 1:100

2 EAST ELEVATION
SK/A01 SCALE 1:100



3 NORTH ELEVATION
SK/A01 SCALE 1:100



4 SOUTH ELEVATION
SK/A01 SCALE 1:100

Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sign

Signature

File No. 10-0765 Date 10 / 7 / 12

0 1000 2000 3000 4000 5000mm
SCALE 1:200
AT AS SIZE

GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

date 12.05.09

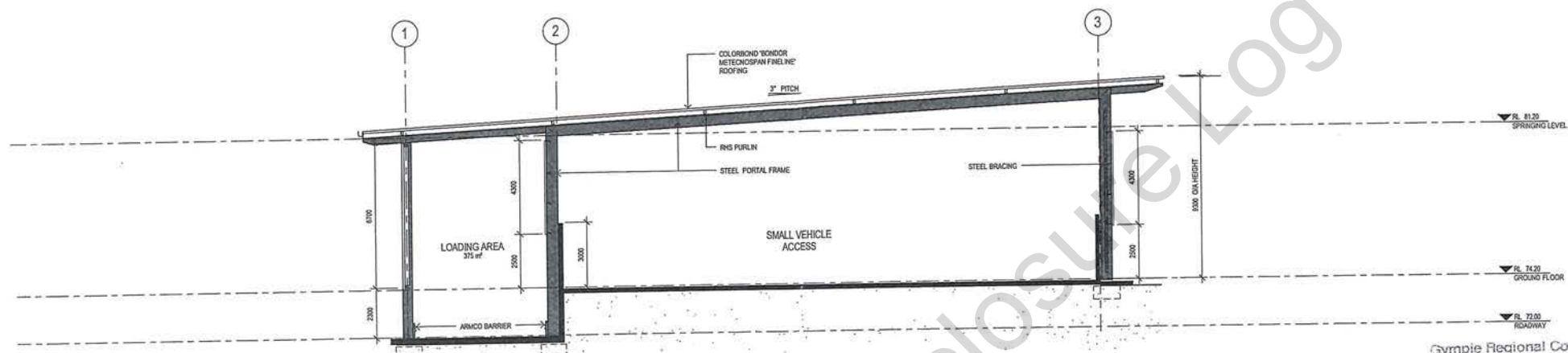
job no. 41-16797

Page 58 of 90



TRANSFER STATION

File A

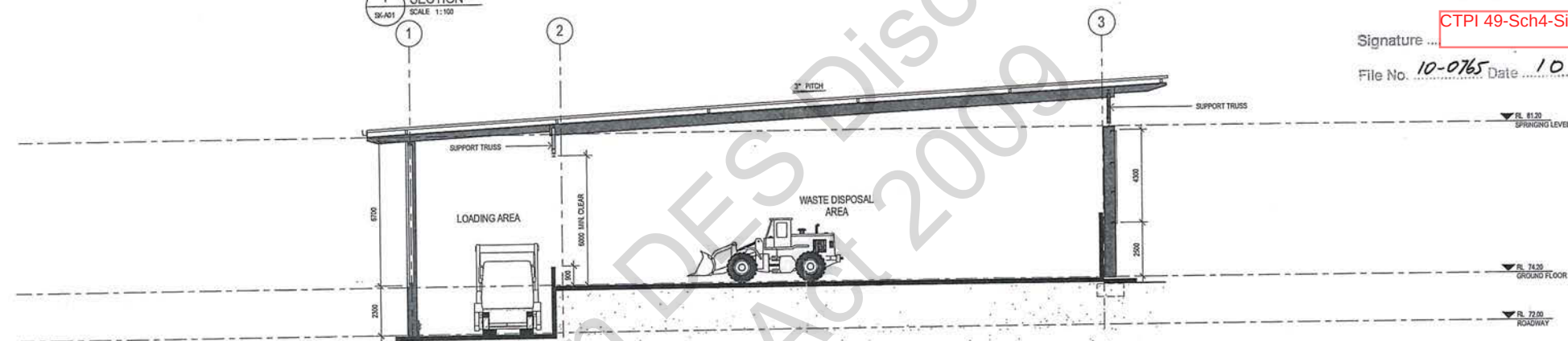
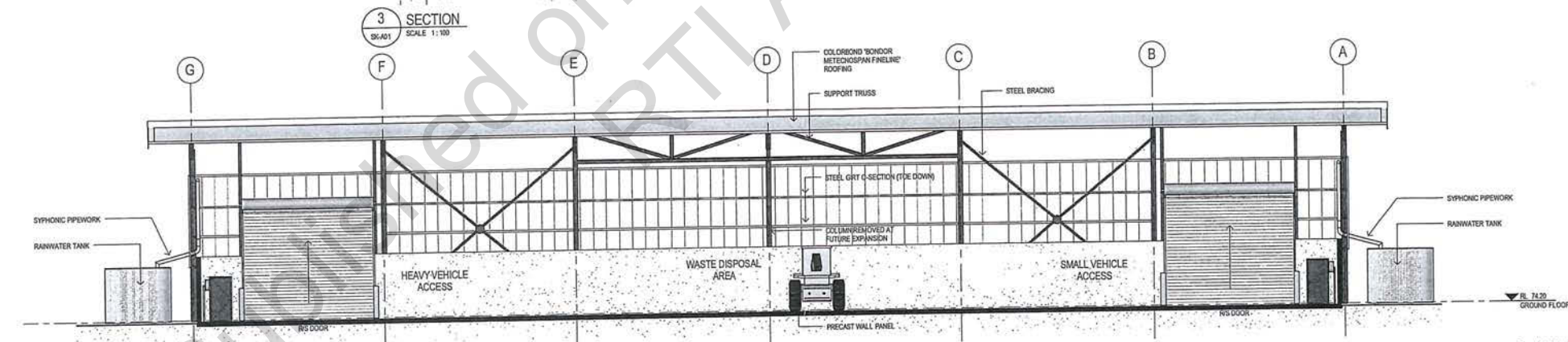


Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sign

Signature

File No. 10-0765 Date 10 / 7 / 12



GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

TRANSFER STATION

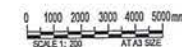
18-112

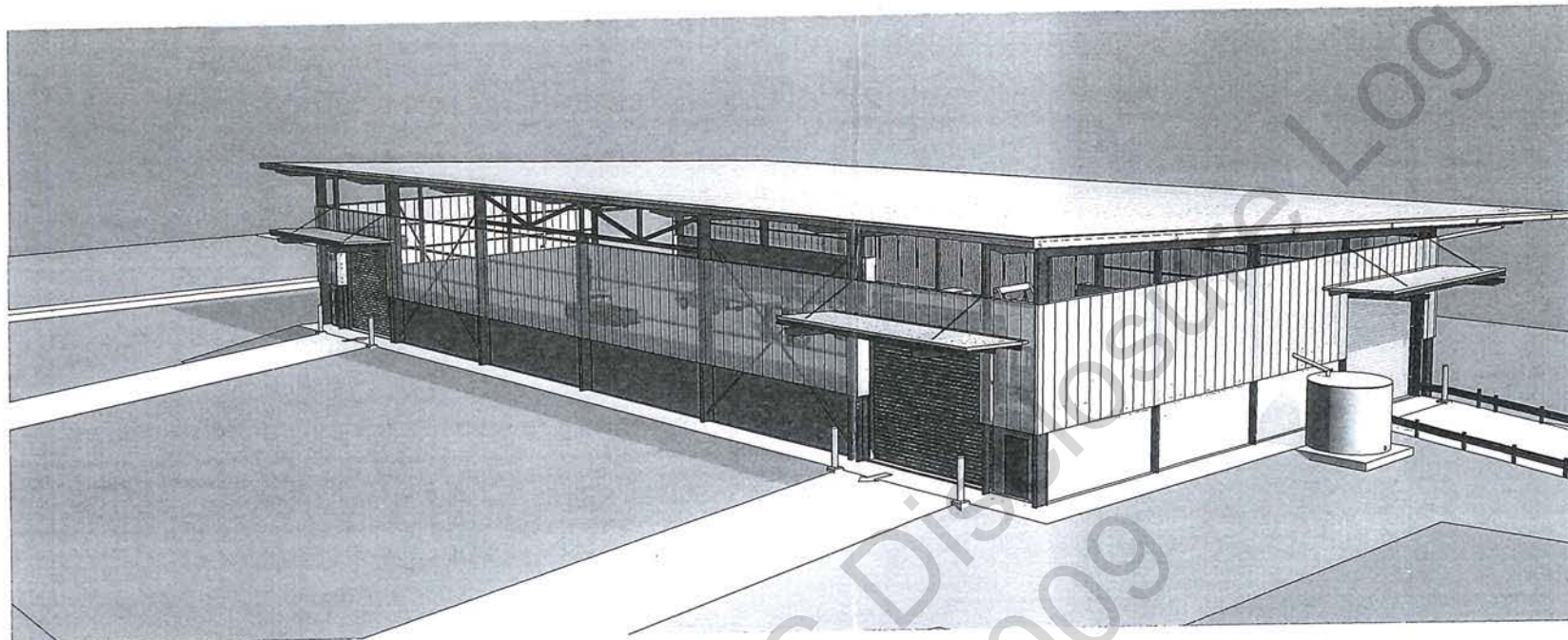
File A

date 12.05.09

job no. 41-16797

Page 582 of 803





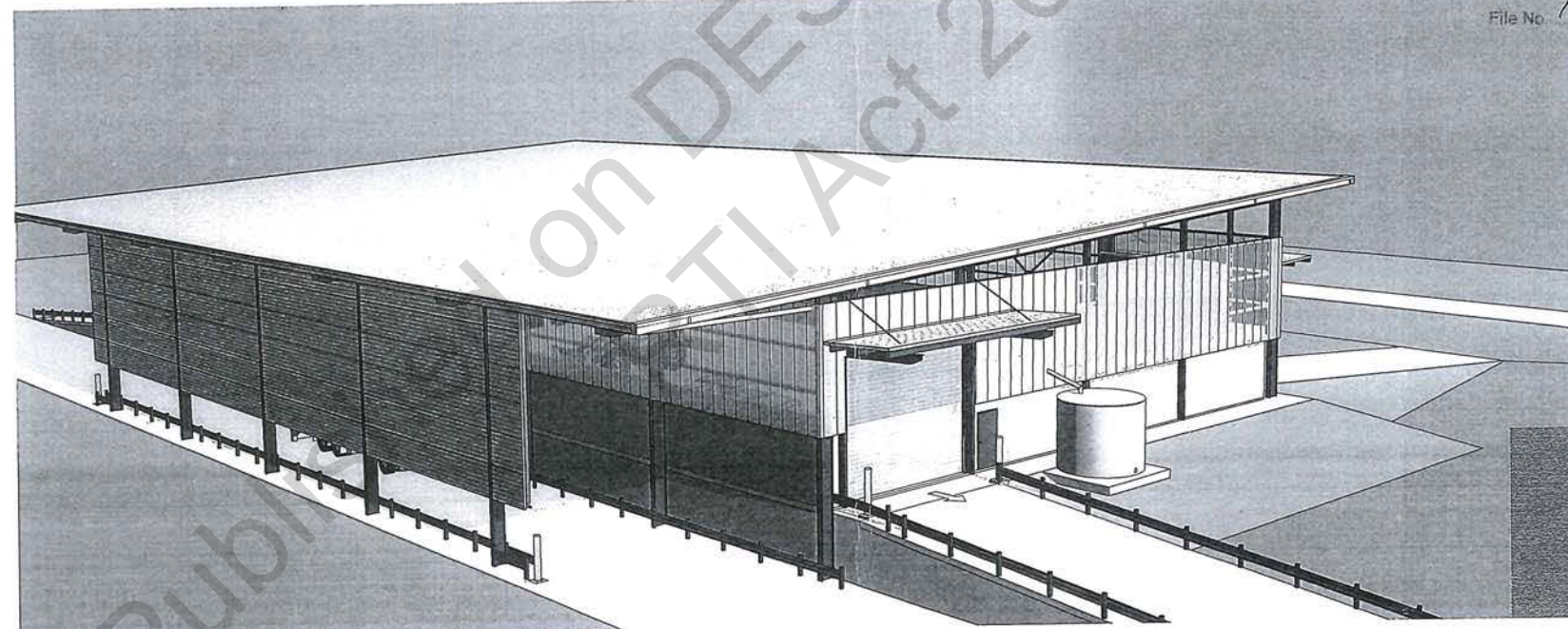
PERSPECTIVE VIEW FROM NORTH-WEST - VIEW A

Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sig

Signature

File No. 10-0765 Date 10 / 7 / 12



PERSPECTIVE VIEW FROM SOUTH-EAST - VIEW B

GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

TRANSFER STATION

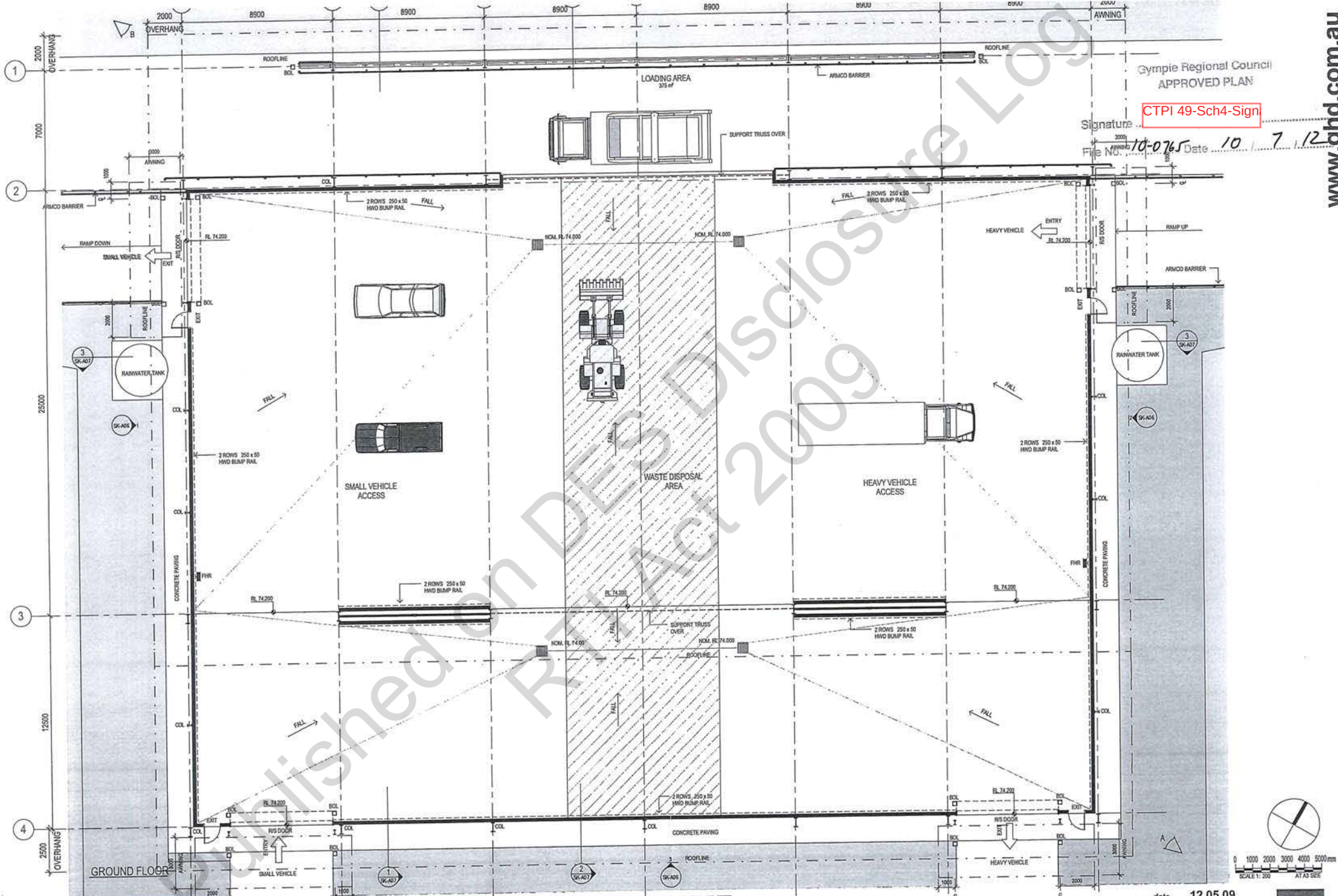
File A

date 12.05.09

job no. 41-16797

Page 5 of 4





GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

18-112

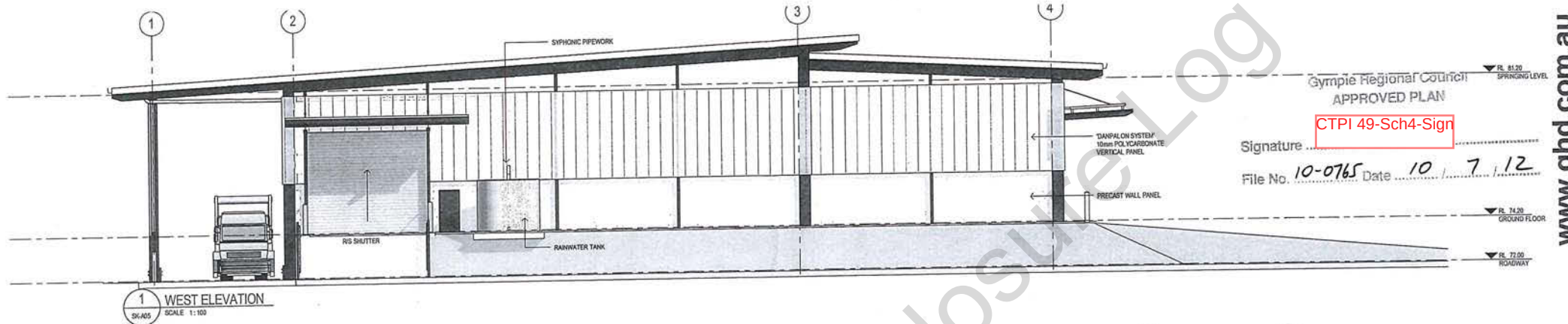
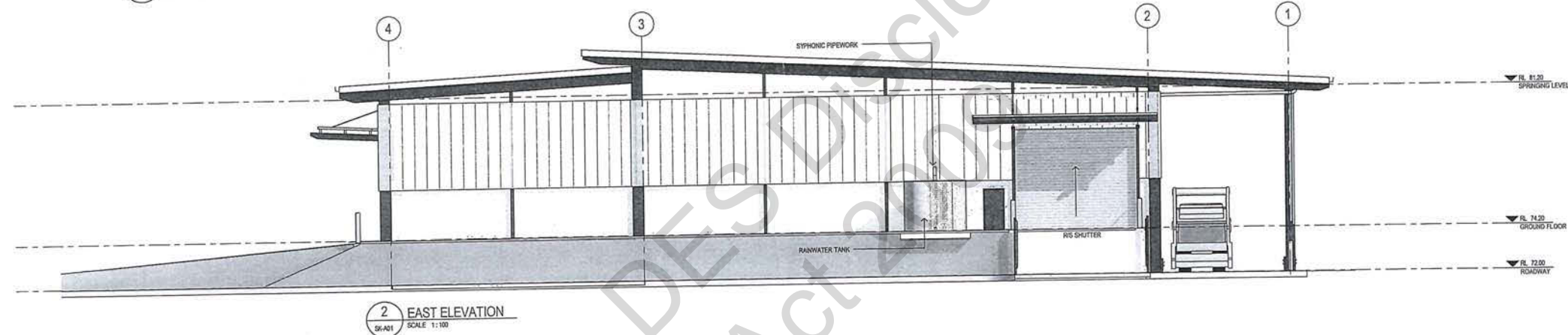
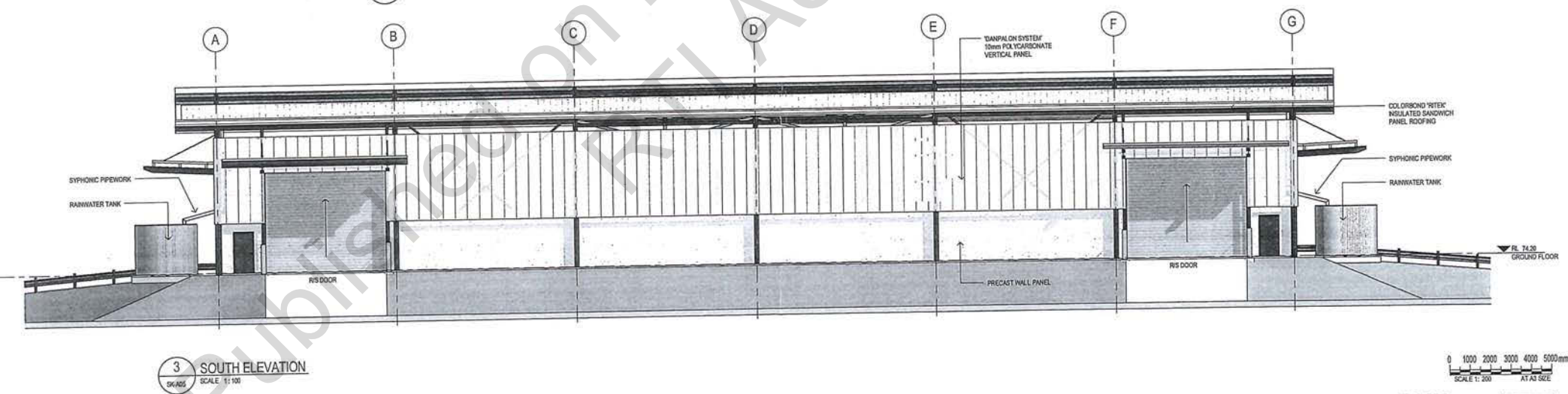
File A

date 12.05.09

job no. 41-16797

Page 54 of 905





GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

TRANSFER STATION

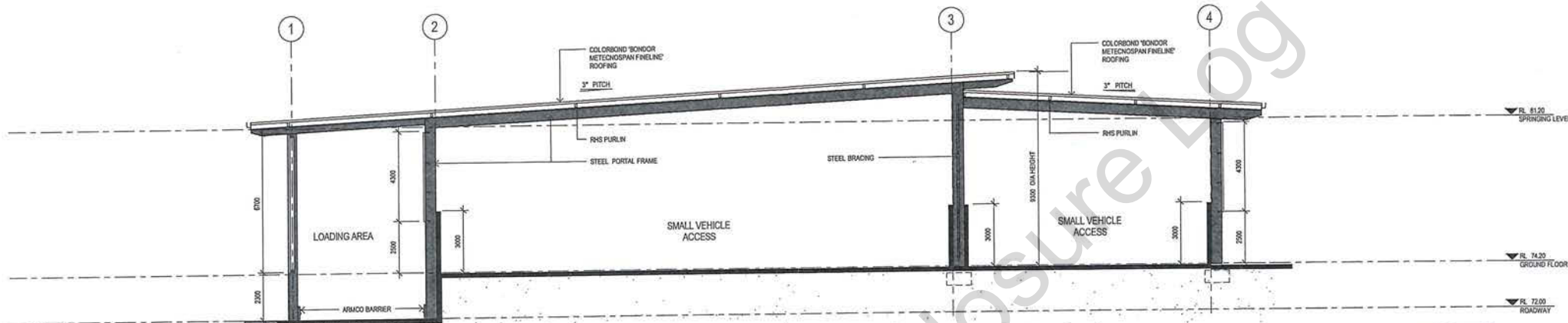
File A

date 12.05.09

job no. 41-16797

Page 588 of 640



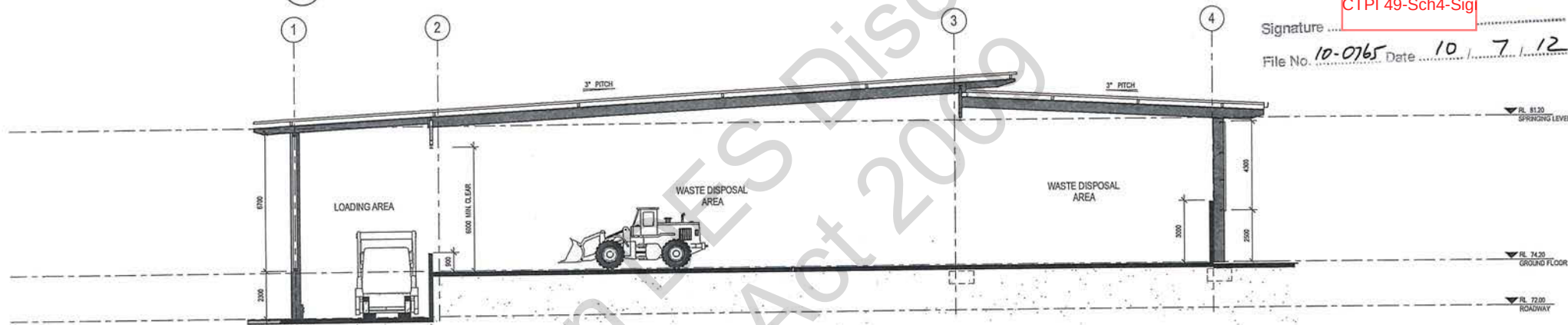


1 SECTION
SCALE 1:100

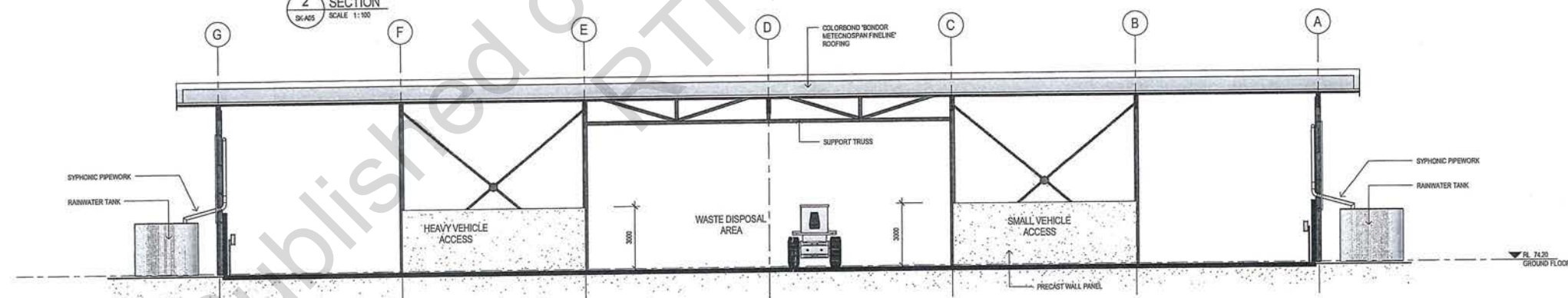
Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sig

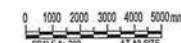
Signature
File No. 10-0765 Date 10 / 7 / 12



2 SECTION
SCALE 1:100



3 SECTION
SCALE 1:100



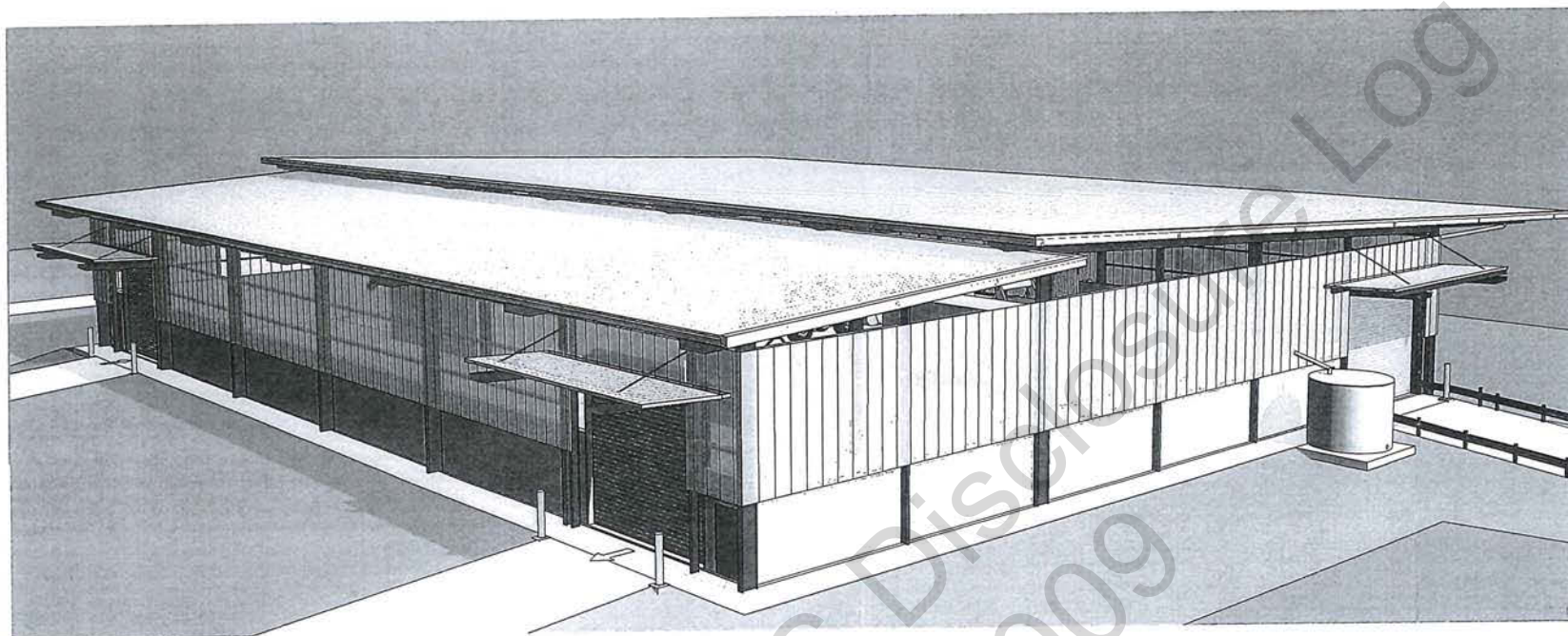
GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

date 12.05.09

job no. 41-16797

Page 5 of 10



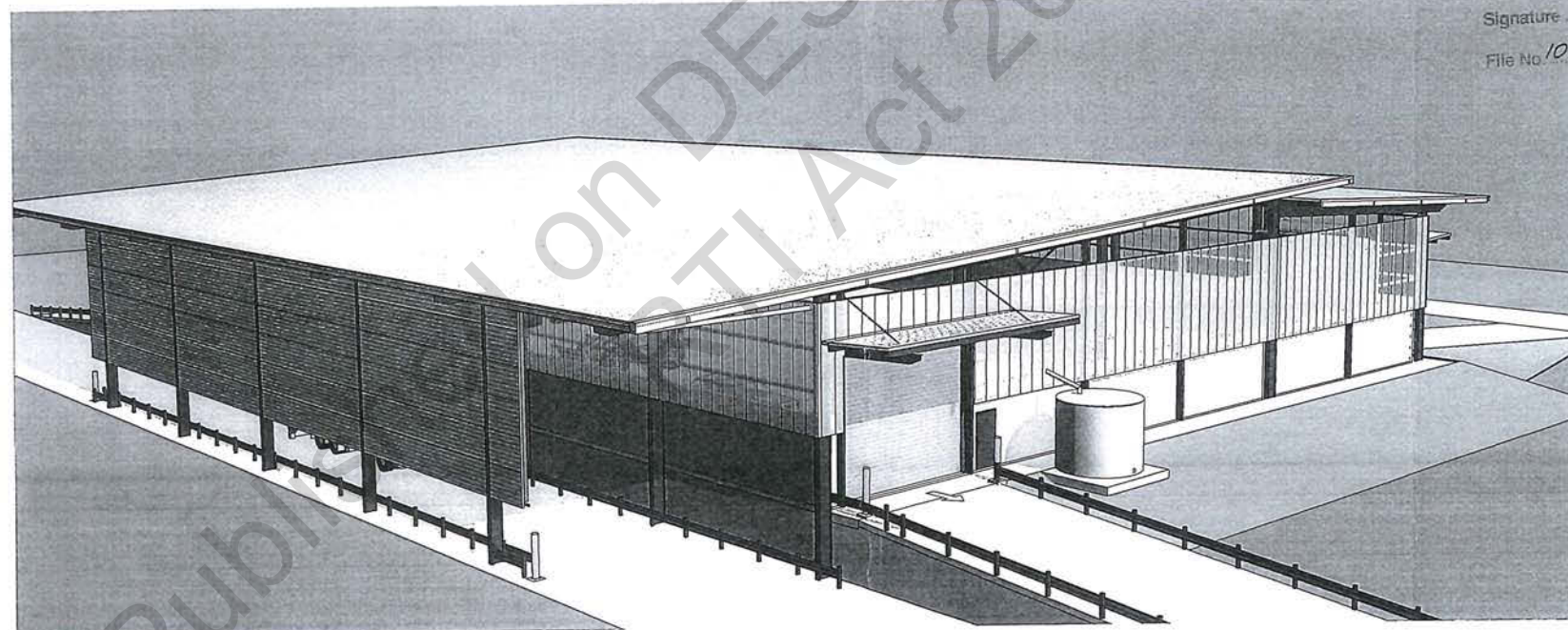


PERSPECTIVE VIEW FROM NORTH-WEST - VIEW A

Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sign

Signature ..
File No. 10-0765 Date 10 / 7 / 12



PERSPECTIVE VIEW FROM SOUTH - EAST - VIEW B

GYMPIE REGIONAL COUNCIL - BONNICK ROAD WMF

18-112

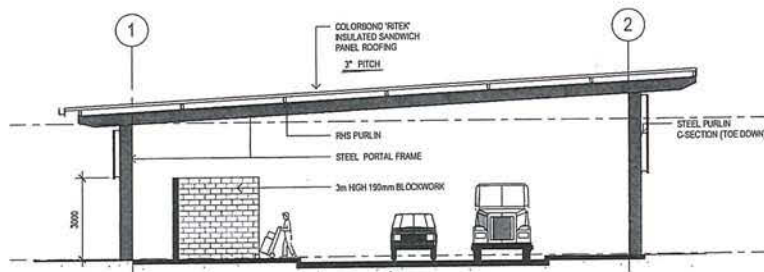
File A

date 12.05.09

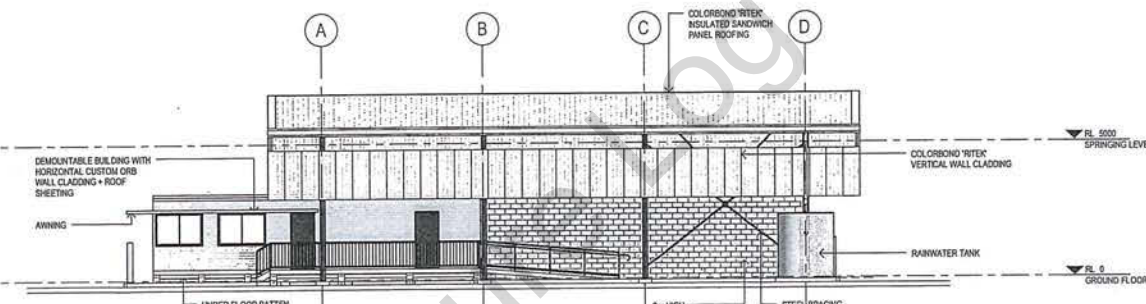
job no. 41-16797

Page 56 of 100





5 SECTION
SCALE 1:100

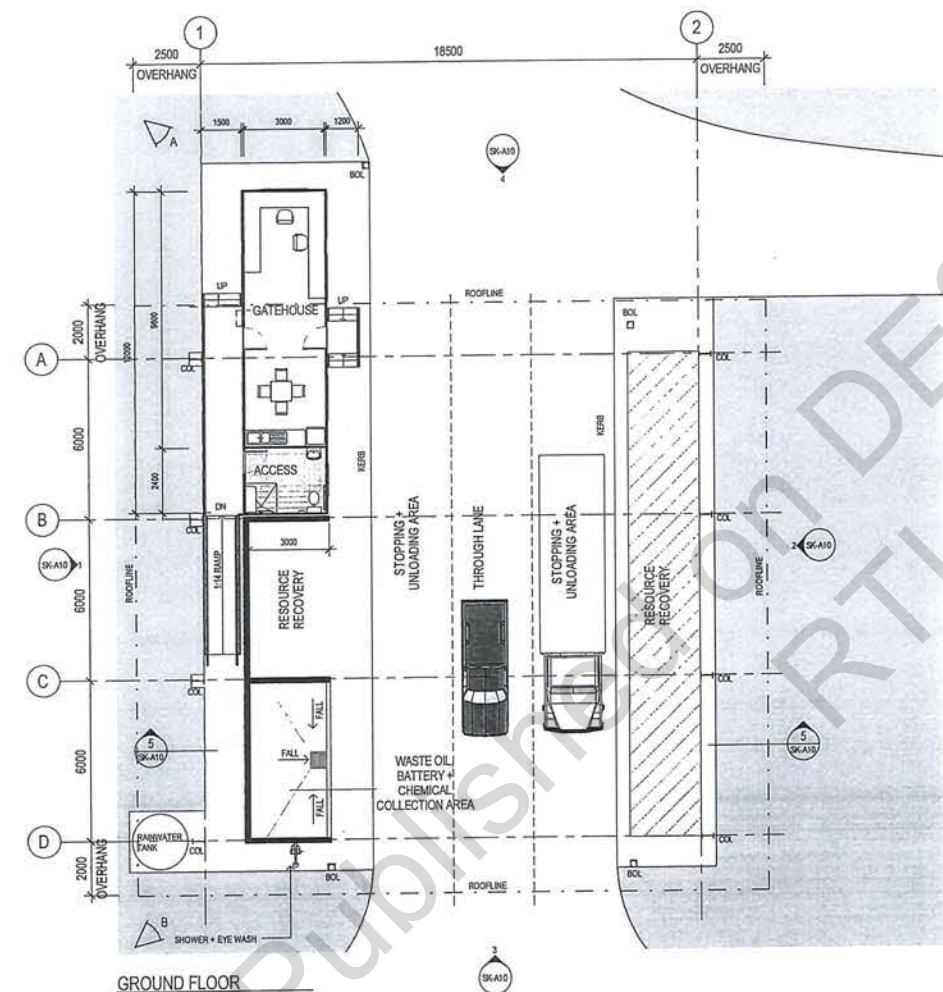


1 WEST ELEVATION
SCALE 1:100

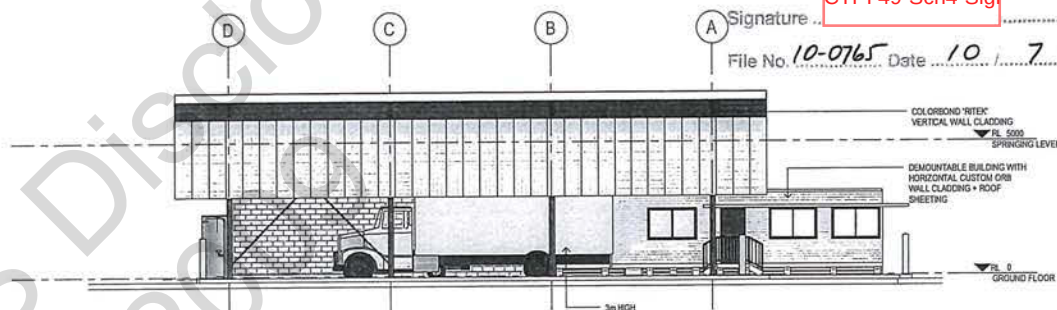
Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sig

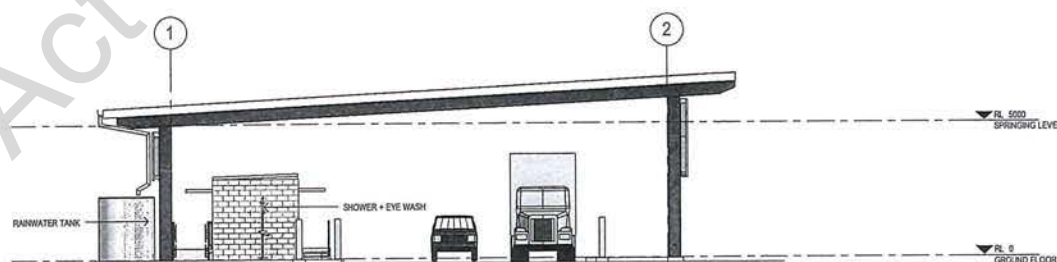
Signature:
File No. 10-0765 Date 10/07/12



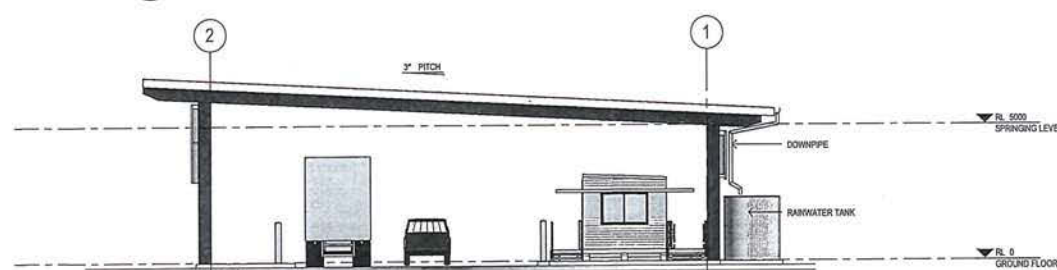
GROUND FLOOR
SCALE 1:100



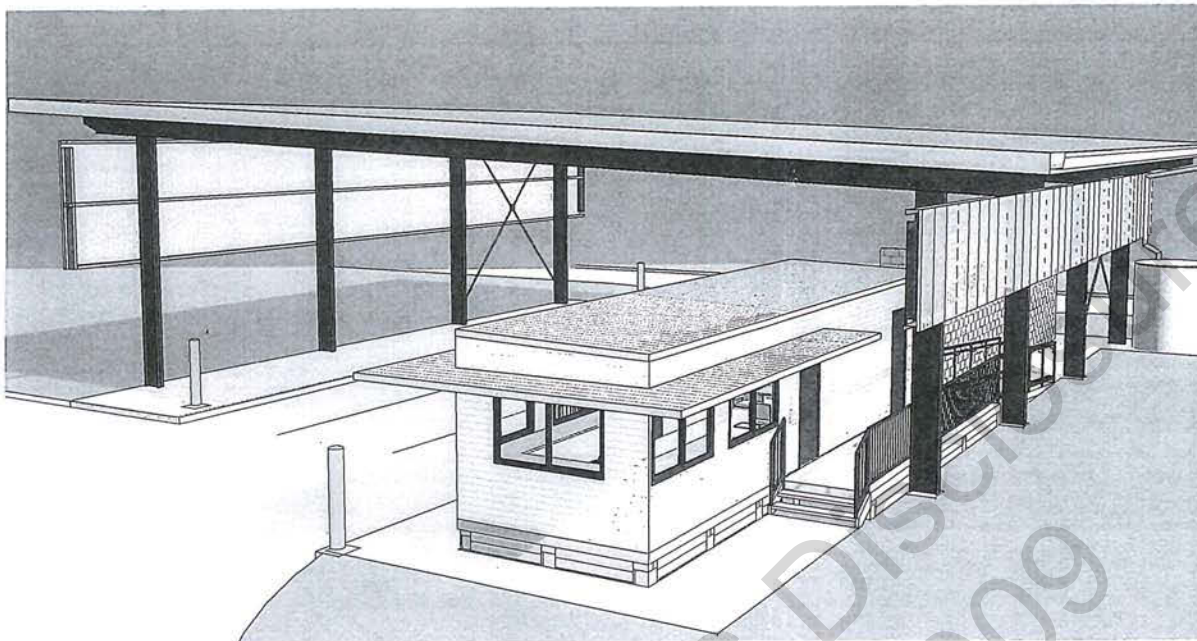
2 EAST ELEVATION
SCALE 1:100



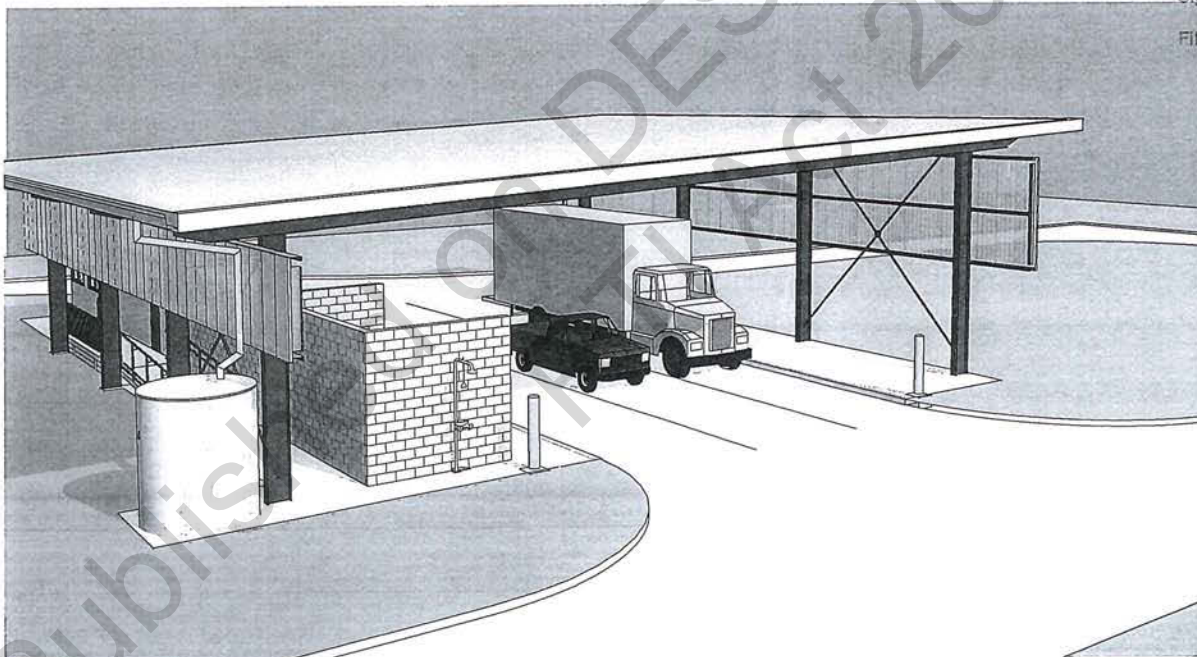
3 SOUTH ELEVATION
SCALE 1:100



4 NORTH ELEVATION
SCALE 1:100



PERSPECTIVE VIEW FROM NORTH-WEST - VIEW A



PERSPECTIVE VIEW FROM SOUTH-EAST - VIEW B

Gympie Regional Council
APPROVED PLAN

CTPI 49-Sch4-Sign

Signature
File No. 10-0765 Date 10 / 7 / 12

Karle Matt

From: Nadia Gulevich [Nadia.Gulevich@gympie.qld.gov.au]
Sent: Thursday, 10 November 2011 2:04 PM
To: Karle Matt
Subject: GRC Agreement to the extension
Attachments: assessperiod.pdf
Your Reference: 221737

Good afternoon,

please find attached Council's agreement to further extend referral agency assessment period.

If you have any questions, please don't hesitate to contact Mr Michael Grant of Community Services Directorate on (07) 5481 0611.

Thank you,
 Nadia

Nadia Gulevich

Administration Officer | Community Services
 Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
 24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570
 e-mail: nadia.gulevich@gympie.qld.gov.au | www.gympie.qld.gov.au

 This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

R

Karle Matt

From: Oakley Richard
Sent: Thursday, 10 November 2011 12:25 PM
To: Karle Matt
Cc: Riese Ralph
Subject: RE: Bonnick Road Landfill
Matt

I always think that in situations like this we are on the "side of the Angels" after all we are asking for is reasonable information/evidence that demonstrates sufficiently well to us and others the proposed operations will not cause environmental pollution.

We would not be doing our job/duty if we didn't and how else are we supposed to properly assess such matters. The information needed is reasonable and proportional to the environmental risk of the operations.

What is their case for not providing the info needed, is it: that they feel have provided sufficient already (would question that) ; it would be too "expensive" to obtain (by the sounds of it the possible reason) or they feel it is over the top and not necessary (they have not demonstrated sufficiently well that the risks are low enough that no more info is needed)?

We are accountable and so our assessment/decision process must be evidence based, with no or insufficient information to assess, the risk in our decision making process I believe is unacceptably high.

The additional info from the consultants that by the sounds of it is available but was not supplied (for whatever reason), may well get them over a few hurdles or at least provide some evidence that we can at least reasonably assess on, it can certainly only help the matter.

Let me know if I can assist on anything (via Ralph Riese of course) or if you receive additional information that you would like me to have a look at etc.

Keep up the good work.

regards

Richard Oakley
Principal Environmental Officer
Compliance and Investigations
South East Region
Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-M4
Facsimile: 07 3381 7560
email richard.oakley@derm.qld.gov.au
www.derm.qld.gov.au

From: Karle Matt
Sent: Thursday, 10 November 2011 11:34 AM
To: Oakley Richard

Subject: Bonnick Road Landfill

Richard,

How's things?

An update for you - we had an interesting onsite meeting with Gympie Regional Council yesterday (including consultants) regarding the Bonnick Road Landfill. It would appear that the design consultants have more awareness of design aspects than the application suggests.

We will be requesting (today) an extension of the assessment period (by agreement) for 20 business days to allow the client to provide some clarity around several aspects of the proposal. I don't believe council will invest further to undertake the fully hydrogeological risk assessments etc, but I am hopeful that council will provide clarity around what they have designed for and how things are intended to work, so we have a clearer understanding of the design.

I will say that the meeting was fairly unpleasant and we found ourselves in quite a defensive position regarding the need for more info. As mentioned however, it seems clear the consulting designers know more about what they will build vs what info has been included for our assessment, which I hope will be rectified (at least in part) with some additional information.

We will see how we go.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

10 November 2011

Department of
**Environment and Resource
Management**

Michael Grant
Gympie Regional Council
PO Box 155
Gympie Qld 4570

Dear Mr Grant

The Department of Environment and Resource Management (the Department) wishes to thank yourself and other Gympie Regional Council representatives for meeting with myself and Officer Matt Karle regarding the proposed Bonnick Road Landfill on Wednesday 9th November 2011. Advice provided during the meeting was of assistance to better understand the proposed development, in particular the landfill extension.

During the meeting, Gympie Regional Council representatives were advised that information provided to support the application for landfill and transfer station was either lacking in detail; was not consistent with the current proposed development; or did not propose solutions that demonstrated all reasonable and practical measures were being implemented to prevent or minimise emissions – particularly those that may cause nuisance.

It was agreed during the meeting that additional information would be forthcoming in relation to the proposed development. Please find attached an extension (by agreement) of the assessment period. During the meeting on 9th November 2011, an extension of 25 Business days has been proposed by Gympie Regional Council. Please find the extension notice attached.

The following matters were discussed during the meeting:

Proposed Landfill Extension

1. Vertical separation distance of proposed land filling from underlying groundwater
2. The use of the groundwater depressurisation system as a draw down system vs a mechanism to allow elevated groundwater to levels (in extreme events) to drain by gravity (ie an insurance system);
3. Reference to groundwater monitoring results, including monitoring results since 2009 / 2010;
4. Land filling in relation to the 1:100 yr flood level;
5. The purpose of the bund around the western perimeter of the landfill extension;
6. Use and design capacity of the stormwater detention pond, including runoff that will

Queensland 4 Australia

Telephone + 61 7

Facsimile + 61 7

Website www.derm.qld.gov.au

ABN 46 640 294 485



- and will not report to the pond;
7. Runoff quality that does not report to the stormwater pond;
 8. Capacity of the leachate collection system, and handling of excess leachate that is not recirculated back to the landfill;
 9. Capability of the Gympie Regional Council Sewage Treatment Plant (STP) to receive excess leachate, particularly considering treated effluent from this facility discharges to the Mary River;
 10. Leachate recirculation infrastructure, including bioreactor performance indicators and maintenance;
 11. Recirculation of leachate to the existing unlined section of the landfill vs recirculation to the proposed lined landfill extension;
 12. Connection of the existing landfill leachate system into the new landfill;

The following matters were discussed in relation to the proposed Transfer Station

1. Potential noise emissions from the Transfer Station appear to have potential to cause nuisance at nuisance sensitive premises.

The Department notes the following from the information provided:

- a) Background noise monitoring locations may not suitably reflect ambient noises in close proximity to the existing landfill – ie traffic accessing the existing landfill and through traffic on Corella / Maryborough Road;
- b) Parameters selected from the Planning for Noise Control Guideline needs to accurately reflect the receiving environment to determine an appropriate planning noise level;
- c) There is no scenario that excludes the proposed Transfer Station;
- d) The landfill will operate for sufficient duration that Phase 1 (landfill and transfer station) cannot be overlooked;
- e) The ANE report indicates the existing landfill does not comply with noise limits. Hence reference to noise emissions from the existing landfill is not appropriate to support the proposed activity.
- f) Noise contours in the ANE modelling information suggests non – compliance for multiple receptors surrounding the existing and proposed landfill and transfer station.
- g) Section 5.3 of the ANE report indicates non – compliance at multiple receptors around the subject site during Phase 1 by up to 6dB(A), and up to 10 dB(A) during periods of scrap metal collection.
- h) Design of the proposed transfer station should ensure noise emissions are contained or mitigated within the proposed development rather than relying on offsite mitigation measures.
- i) Review of other potential sites for use as a Transfer Station, and or redesign / reconfiguration of the facility at the site in question may be appropriate.

Should you have any further enquiries, please do not hesitate to contact [Miss/Mrs/Ms/Mr Firstname Surname, Position] of the department on telephone [number].

Yours sincerely

CTPI 49-Sch4-Signature

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management

Notice

Applicant agreement to further extend referral agency assessment period

This notice is issued by the Department of Environment and Resource Management pursuant to section 284 (referral agency's assessment period) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
C/- GHD
PO Box 1300
GYMPIE QLD 4570

CC: Gympie Regional Council
PO Box 155
GYMPIE QLD 4570

Our reference: 221737

Re: Application for development approval – further extension of referral agency's assessment period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency, requests the applicant's written agreement to extend the referral agency's assessment period, by 25 business days to 16 December 2011 for the following application(s).

2. **Application Details**

Date application made or referred to DERM:

21-DEC-2010

Development approval applied for:

development permit

Aspect(s) of development:

Referral Jurisdiction		DERM Reference
Concurrence Response for a MCU involving an ERA. -----	<i>Sustainable Planning Regulation 2009</i> - Schedule 7, table 2, item 1	SPCE01417310 -----

Property/Location description:

Street address - Bonnick Road GYMPIE QLD 4570
Lot/Plan - Lot 542 Plan MCH801883



**Applicant agreement to further extend information request period, referral
agency's assessment period, decision making period**

Please sign this Notice where indicated below and return it to Dayna Claybourn, the Project Manager, at the address stated below.

Applicant agreement

I/We as the above named applicant agree to this request to further extend the referral agency's assessment period to 16 December 2011.

APPLICANT SIGNATURE

DATE

PRINT NAME(S) OF SIGNATORY

CTPI 49-Sch4-Signature

Delegate

Tim Brain
Chief Executive,
Department of Environment and Resource Management

Enquiries:

Matt Karle
Department of Environment and Resource
Management
Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650
Phone: (07) 41211800
Fax: (07) 41211650

7. Runoff quality that does not report to the stormwater pond;
8. Capacity of the leechate collection system, and handling of excess leechate that is not recirculated back to the landfill;
9. Capability of the Gympie Regional Council Sewage Treatment Plant (STP) to receive excess leechate, particularly considering treated effluent from this facility discharges to the Mary River;
10. Leechate recirculation infrastructure, including bioreactor performance indicators and maintenance;
11. Recirculation of leechate to the existing unlined section of the landfill vs recirculation to the proposed lined landfill extension;
12. Connection of the existing landfill leechate system into the new landfill;

The following matters were discussed in relation to the proposed Transfer Station

1. Potential noise emissions from the Transfer Station appear to have potential to cause nuisance at nuisance sensitive premises.

The Department notes the following from the information provided:

- a) Background noise monitoring locations may not suitably reflect ambient noises in close proximity to the existing landfill – ie traffic accessing the existing landfill and through traffic on Corella / Maryborough Road;
- b) Parameters selected from the Planning for Noise Control Guideline needs to accurately reflect the receiving environment to determine an appropriate planning noise level;
- c) There is no scenario that excludes the proposed Transfer Station;
- d) The landfill will operate for sufficient duration that Phase 1 (landfill and transfer station) cannot be overlooked;
- e) The ANE report indicates the existing landfill does not comply with noise limits. Hence reference to noise emissions from the existing landfill is not appropriate to support the proposed activity.
- f) Noise contours in the ANE modelling information suggests non – compliance for multiple receptors surrounding the existing and proposed landfill and transfer station.
- g) Section 5.3 of the ANE report indicates non – compliance at multiple receptors around the subject site during Phase 1 by up to 6dB(A), and up to 10 dB(A) during periods of scrap metal collection.
- h) Design of the proposed transfer station should ensure noise emissions are contained or mitigated within the proposed development rather than relying on offsite mitigation measures.
- i) Review of other potential sites for use as a Transfer Station, and or redesign / reconfiguration of the facility at the site in question may be appropriate.

Should you have any further enquiries, please do not hesitate to contact [Miss/Mrs/Ms/Mr Firstname Surname, Position] of the department on telephone [number].

Yours sincerely

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management

Notice

Applicant agreement to further extend referral agency assessment period

This notice is issued by the Department of Environment and Resource Management pursuant to section 284 (referral agency's assessment period) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
C/- GHD
PO Box 1300
GYMPIE QLD 4570

CC: Gympie Regional Council
PO Box 155
GYMPIE QLD 4570

Our reference: 221737

Re: Application for development approval – further extension of referral agency's assessment period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency, requests the applicant's written agreement to extend the referral agency's assessment period, by 25 business days to 16 December 2011 for the following application(s).

2. Application Details

Date application made or referred to DERM:

21-DEC-2010

Development approval applied for:

development permit

Aspect(s) of development:

Referral Jurisdiction		DERM Reference
Concurrence Response for a MCU involving an ERA.	Sustainable Planning Regulation 2009 - Schedule 7, table 2, item 1	SPCE01417310

Property/Location description:

Street address - Bonnick Road GYMPIE QLD 4570
Lot/Plan - Lot 542 Plan MCH801883

**Applicant agreement to further extend information request period, referral
agency's assessment period, decision making period**

Please sign this Notice where indicated below and return it to Dayna Claybourn, the Project Manager, at the address stated below.

Applicant agreement

I/We as the above named applicant agree to this request to further extend the referral agency's assessment period to 16 December 2011.

CTPI 49-Sch4-Signature



10/11/2011
DATE

MICHAEL GRANT

PRINT NAME(S) OF SIGNATORY

CTPI 49-Sch4-Signature

Delegate
Tim Brain
Chief Executive,
Department of Environment and Resource Management

Enquiries:
Matt Karle
Department of Environment and Resource
Management
Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650
Phone: (07) 41211800
Fax: (07) 41211650

Karle Matt

From: Brain Tim (DERM)
Sent: Wednesday, 11 January 2012 1:03 PM
To: Karle Matt
Subject: RE: GRC meeting re Bonnick Road

Hi Matt

I am interested in attending but Dayna already has a meeting booked for that day. She is trying to reorganise but I am not sure if that is finalised.

Thanks

Tim

Tim Brain

Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management
Telephone: (07) 4121 1813
Facsimile: (07) 4121 1650
Email: tim.brain@derm.qld.gov.au

www.derm.qld.gov.au

-----Original Appointment-----

From: Karle Matt

Sent: Wednesday, 11 January 2012 9:57 AM

To: Brain Tim (DERM)

Subject: GRC meeting re Bonnick Road

When: Wednesday, 18 January 2012 12:00 AM to Thursday, 19 January 2012 12:00 AM (GMT+10:00)
Brisbane.

Where:

Tim - GRC have invited you and me for lunch and meeting re Bonnick Road landfill conditions and concerns on Wednesday 18th January 2012 in gympie.

As you are invited Tim, are you interested to attend?

Karle Matt

From: Brain Tim (DERM)
Sent: Wednesday, 11 January 2012 1:03 PM
To: Karle Matt
Subject: RE: GRC meeting re Bonnick Road

Hi Matt

I am interested in attending but Dayna already has a meeting booked for that day. She is trying to reorganise but I am not sure if that is finalised.

Thanks

Tim

Tim Brain

Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management
Telephone: (07) 4121 1813
Facsimile: (07) 4121 1650
Email: tim.brain@derm.qld.gov.au

www.derm.qld.gov.au

-----Original Appointment-----

From: Karle Matt
Sent: Wednesday, 11 January 2012 9:57 AM
To: Brain Tim (DERM)
Subject: GRC meeting re Bonnick Road
When: Wednesday, 18 January 2012 12:00 AM to Thursday, 19 January 2012 12:00 AM (GMT+10:00)
Brisbane.
Where:

Tim - GRC have invited you and me for lunch and meeting re Bonnick Road landfill conditions and concerns on Wednesday 18th January 2012 in gympie.

As you are invited Tim, are you interested to attend?

Karle Matt

From: Ian Wolff [Ian.Wolff@gympie.qld.gov.au]
Sent: Wednesday, 11 January 2012 4:42 PM
To: Karle Matt
Cc: CTPI 49-Sch4@exemail.com.au; Christine Kennedy; Grayden Curry; Michael Grant; Tanya Allen
Subject: Re: Meeting - Bonnick Road Landfill

Matt

Thankyou for the response confirming the availability of Tim Brain and yourself to meet with Council Officers and consultants on Thursday, 19 January 2012.

It is anticipated to commence at 12 noon beginning with lunch with the meeting to follow.

The venue for the luncheon / meeting is Council's Community Services Directorate Building located at 24 Mellor Street, Gympie. Free parking is available in the Civic Centre car park located next door.

I note your advice that you intend to forward draft conditions for both the transfer station and landfill extension prior to the meeting.

Please do not hesitate in contacting me for further information, if required.

Regards

Ian Wolff
 Acting Director
 Community Services Directorate
 Gympie Regional Council
 ph. (07) 5481 0611
 e-mail: ian.wolff@gympie.qld.gov.au

>>> "Karl Matt" <Matt.Karle@derm.qld.gov.au> 11/01/2012 1:55 PM >>>
 Hello Ian,

Both Tim Brain and myself are available to meet with GRC in Gympie on Thursday 19th January 2012, at what ever time suits.

Please confirm a time for Thursday 19th January 2012.

Regards

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
 Email: matt.karle@derm.qld.gov.au

+-----+

Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

+-----+

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988

(Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Ian Wolff [Ian.Wolff@gympie.qld.gov.au]
Sent: Wednesday, 11 January 2012 4:51 PM
To: Karle Matt
Cc: [CTPI 49-Sch4-N]@ane.com.au; [CTPI 49-Sch4]@exemail.com.au; Grayden Curry; Michael Grant; Tanya Allen
Subject: Fwd: 2298 - Email - SW - Comments on Conditions
Attachments: 2298 - Email - SW - Comments on Conditions

Dear Matt

Please find attached comments from Council's consultant - Mr [CTPI 49-Sch4] from Air Noise Environment Pty Ltd in respect of the proposed noise conditions for Bonnick Road.

As previously advised, in order to expedite the assessment of the application, I would recommend that you contact [CTPI 49-S] directly should you wish to clarify any item.

Please do not hesitate in contacting me should you wish to discuss this matter further.

Regards

Ian Wolff
 Acting Director
 Community Services Directorate
 Gympie Regional Council
 ph. (07) 5481 0611
 e-mail: ian.wolff@gympie.qld.gov.au

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Karle Matt
Sent: Wednesday, 11 January 2012 1:56 PM
To: 'ian.wolff@gympie.qld.gov.au'
Subject: Meeting - Bonnick Road Landfill

Hello Ian,

Both Tim Brain and myself are available to meet with GRC in Gympie on Thursday 19th January 2012, at what ever time suits.

Please confirm a time for Thursday 19th January 2012.

Regards

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Karle Matt
Sent: Wednesday, 11 January 2012 11:02 AM
To: 'ian.wolff@gympie.qld.gov.au'
Cc: 'grayden.curry@gympie.qld.gov.au'
Subject: FW: Proposed meeting
Importance: High

Hello Ian – Further to my last email, unfortunately Tim is now booked on Tuesday as well, leaving only Thursday available. Tim would like to attend. Is Thursday a possibility?

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Karle Matt
Sent: Wednesday, 11 January 2012 9:59 AM
To: 'ian.wolff@gympie.qld.gov.au'
Subject: Proposed meeting

Hello Ian,

Tim has been tied up again this morning as he is acting in the Regional Manager role this week. I have sent an invite in his calendar, but have now noticed he has a meeting scheduled in this office from 11am to 1.00pm on 18th January 2012. Days either side seem clear at this stage.

Although I await advice back from Tim about the 18th, is any other day next week available?

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Karle Matt
Sent: Wednesday, 11 January 2012 9:59 AM
To: 'ian.wolff@gympie.qld.gov.au'
Subject: Proposed meeting

Hello Ian,

Tim has been tied up again this morning as he is acting in the Regional Manager role this week. I have sent an invite in his calendar, but have now noticed he has a meeting scheduled in this office from 11am to 1.00pm on 18th January 2012. Days either side seem clear at this stage.

Although I await advice back from Tim about the 18th, is any other day next week available?

Regards

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

R

Karle Matt

From: Karle Matt
Sent: Thursday, 12 January 2012 3:35 PM
To: CTPI 49-Sch
Cc: 'ian.wolff@gympie.qld.gov.au'
Subject: RE: 2298 - Email - SW - Comments on Conditions
 Hi CTPI

Matt here from DERM. Ian Wolff from GRC has forwarded your comments and suggested I communicate direct with you for any further noise conditions.

Whilst the noise limits in the Draft might be unusual in that they propose a level, the intent behind prescribing a level was to provide some clarity around a baseline compliance level. The information supporting the application indicates the current activity would struggle to comply with BG +5dB(A), so there seems little point applying the same conditions to the new facility.

As you'd be aware, since that draft was circulated we have received further noise information in support of the Transfer Station. Given both activities will emit noise, and based on the planning for noise control noise level deemed suitable for the area in the ANE report, DERM now proposes 44dB(A) for the landfill and 44dB(A) for the transfer station (LAeq), which assumes a combined noise level of both sources at a nuisance sensitive receptor of 47 dB(A) during Phase 1. That level would fall to 44dB(A) for Phase 2.

47 dB(A) being below the Environmental Protection (Noise) Policy Acoustic Quality objective of 50 (laeq1hr), and 44dB(A) being reflective of the Planning for Noise Control level to prevent background creep.

The new draft will still maintain the "or BG +3, whichever is higher" wording to reflect increases in BG during the day / season.

Do you see a problem with the condition prescribing a LAeq compliance level of 44dB(A) for each activity?

Also,

1. Can I confirm, the Transfer Station design will now have concrete walls and lined with material to provide a co-efficient of 0.92 on all sides rather than only the Northern façade? The addendum suggests it will be fully enclosed all round (Secion 2.2, dot point 2).
2. I note there is no discussion about the Recovery Building. Is noise from that facility included in the modelling, and will that facility have similar noise attenuation? Is that facility likely to be a noisy location?

Regards

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
 Email: matt.karle@derm.qld.gov.au

From: CTPI 49-Sch4-Name@ane.com.au]
Sent: Wednesday, 11 January 2012 12:53 PM
To: Ian Wolff
Subject: 2298 - Email - SW - Comments on Conditions

Hi Ian,

I've had a close look through the draft DERM comments and your subsequent review.

I agree with your comments, particularly the need to change the noise conditions in Schedule D1-5. I find the draft conditions unusual. There is no harm in having the 47 dB(A) or 55 dB(A) in the conditions (as it mentions "whichever is the higher"). In some cases, the 47 dB(A) and 55 dB(A) might be more helpful in locations where background levels are relatively low. It is only the Background Plus 3 or 5 that might be an issue. The existing license conditions (background + 5

R

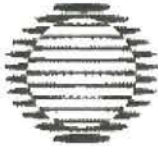
for sensitive place, background + 10 for commercial place) are typical of conditions adopted by DERM (and other local councils) and more workable.

We typically allow for 2 weeks (from commencement) to develop a noise management plan. Allowing for 2 weeks between commissioning and commencement, a 1 month period is a reasonable due date. This is the same for the noise monitoring work.

Regards,

CTPI 49-Sch4-N

Environmental Engineer



Air Noise Environment Pty Ltd
Unit 3, 4 Tombo Street
Capalaba
QLD 4157

Tel: +61 7 3245 7808

Fax: +61 7 3245 7809

Mobile: CTPI 49-Sch4

Email: CTPI 49-Sch4@ane.com.au

Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Karle Matt

From: [CTPI 49-Sch4-Name]@ane.com.au]
Sent: Wednesday, 11 January 2012 12:53 PM
To: Ian Wolff
Subject: 2298 - Email - SW - Comments on Conditions

Hi Ian,

I've had a close look through the draft DERM comments and your subsequent review.

I agree with your comments, particularly the need to change the noise conditions in Schedule D1-5. I find the draft conditions unusual. There is no harm in having the 47 dB (A) or 55 dB(A) in the conditions (as it mentions "whichever is the higher"). In some cases, the 47 dB(A) and 55 dB(A) might be more helpful in locations where background levels are relatively low. It is only the Background Plus 3 or 5 that might be an issue. The existing license conditions (background + 5 for sensitive place, background + 10 for commercial place) are typical of conditions adopted by DERM (and other local councils) and more workable.

We typically allow for 2 weeks (from commencement) to develop a noise management plan. Allowing for 2 weeks between commissioning and commencement, a 1 month period is a reasonable due date. This is the same for the noise monitoring work.

Regards,

[CTPI 49-Sch4-N]
 Environmental Engineer



Air Noise Environment Pty Ltd
 Unit 3, 4 Tombo Street
 Capalaba
 QLD 4157

Tel: +61 7 3245 7808
 Fax: +61 7 3245 7809
 Mobile: [CTPI 49-Sch4-M]
 Email: [CTPI 49-Sch4-Name]@ane.com.au
 Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Karle Matt

From: Oakley Richard
Sent: Thursday, 12 January 2012 4:10 PM
To: Karle Matt
Subject: RE: Bonnick Road
 Hi Ya Matt

Happy New Year to you and all

Re expansion to 100m grid transects I would object, 100 m is way to large a grid and it would not give a reasonable indication of potential site flux emissions.

If this is the initial walk over survey and monitoring regime then 50m is reasonable for a final cap and 25 transects for a intermediate temporary cap (as used by UK Environment Agency) , Victoria EPA use a straight 25 m transect grid system. I would also include in ii) potential points of elevated concentrations around high gas risk features at the site ie leachate chamber/monitoring points , Gas wells/monitoring points , Pipework and any cap surface intrusions and capping joints. These point sources and easily identifiable features are the biggest emitters and should always be monitored and then addressed first to reduce emissions

Im away for a few days back on Tuesday, give me a call then if necessary

regards

Richard Oakley

Strategic Compliance
 Environmental Performance and Coordination
 Environment and Natural Resource Regulation, DERM
Telephone: 0407 764 591
Facsimile: 07 3381 7560
 email richard.oakley@derm.qld.gov.au
 www.derm.qld.gov.au

From: Karle Matt
Sent: Thursday, 12 January 2012 1:59 PM
To: Oakley Richard
Subject: Bonnick Road

Hey Richard.

A quick question. GRC has responded with a number of comments on the Draft Bonnick Road DA – most of which were expected, and most of which I can massage to get across the line.

They have commented that they want a 100m grid patter for the condition below:

- (1B4-1) *The assessment of compliance with the methane limits at a height of 50 mm above the final and intermediate cover surface of the landfill unit prescribed by (B3-2) must be undertaken at the following locations:*
- (i) *on a grid pattern where the grid lines are no more than 50m apart; and*
 - (ii) *at any other locations where visual observations indicate potentially elevated concentrations of landfill gas, for example cracks, seeps in cover and distressed vegetation.*

Any objections? I can't find where this 50m reference came from.....

R

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Published on DES Disclosure Log
RTI Act 2009

DEVELOPMENT APPROVAL APPLICATION CONCURRENCE RESPONSE - SPA 2009

Application Number:	SPCE01417310
Ecotrack Project Ref:	221737
Applicant:	Gympie Regional Council
ERA's:	60 (2)(c) Waste Disposal
Application received:	13/12/2010
Application valid date:	21/12/2010
Forms Enclosed:	Form 1, 5 & 8

Target Dates		
Information Request	If Required	If Not Required
Information Request to be sent by	12/01/2011 27/01/2011 27/1/11	-
Information Request Response Due	27/07/2011 27/7/2011	-
Information Received	16/09/2011	-
Assessment Start Date	Date of applicants response to information request	Application valid date
Decision Due Date 30 BD STARTING DAY AFTER REFERRAL DAY s284 SPA	14/10/11	9/02/2011

File Number	MBH2951-2
Assessing Officer	MICHELLE WRIGHT

Karle Matt

From: Karle Matt
Sent: Friday, 13 January 2012 4:47 PM
To: 'ian.wolff@gympie.qld.gov.au'
Subject: Bonnick Road Draft Conditions
Attachments: Draft conditions of approval - amended.pdf

Good afternoon Ian,

Attached are amended Draft conditions proposed for the Bonnick Road Landfill and Transfer Station proposal.

The conditions are provided to council for review and comment back to DERM. For clarity, DERM has not finalised all internal reviews, and the Draft may still be subject to alteration.

Once comment or discussion with GRC about the draft is complete, DERM will finalise all internal reviews and recommend a decision about the application. DERM notes the current decision due date is 31st January 2012.

DERM would appreciate receiving some general comments back from GRC about the Draft prior to next Thursday's meeting, to enable review or preparation for discussion during the meeting if necessary.

If you have any enquiries please call or email myself at the contact details in the signature block below.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

R

Karle Matt

From: Christine Kennedy [Christine.Kennedy@gympie.qld.gov.au]
Sent: Tuesday, 13 December 2011 4:24 PM
To: Karle Matt
Cc: Alice McClurg; Alyssa Lucht; Amy Gosley; Andrew Parker; Bryan Thomas; Emma Turney; Fiona Neal-Perkins; Fred Barnes; Gaby Hildenhagen; Grayden Curry; Greg Jorgensen; Isla Fleming; Jason Newell; Jeff Stolberg; Jessamyn Plate; Joseph Koovshinoff; Karen McNamara; Kasia Fuller; Kate Scanlon; Kelvin Mason; Kimberley Toomey; Laura Bishop; Leith Hornsby; Luke Farrelly; Lynn Bailey; Marcus Matthews; Melinda Weller; Melissa Wilson; Michael Bishop; Michelle Gadd; Mike Hartley; Neil Wilbraham; Paul Meredith; Karen Sullivan; Ric Halse; Roger Harding; Ross Bishop; Shayne Capell; Simone Meehan; Suzie Williams; Tania Stenholm; Tiffany Amesbury; Zoe Head

Subject: Re: Bonnic Rd Extension

Attachments: DOC131211.pdf

Dear Matt,

Please find attached the signed applicant agreement for the Bonnick Road extension.

Regards

Christine Kennedy
 Personal Assistant
 Director of Community Services
 Gympie Regional Council
 Community Services Directorate
 Telephone: (07) 5481 0611
 Facsimile: (07) 5481 0801

>>> "Karl Matt" <Matt.Karle@derm.qld.gov.au> 7/12/2011 5:29 PM >>>
 Hello Michael,

As discussed earlier today, please find attached an agreement by extension for the Bonnick Road Landfill.

If agreeable, please sign the attached form and return to DERM as soon as possible.

I am on child minding duties here and there during December, and will be on leave Tuesday's and Thursday's for a few weeks. Hence, I won't be in tomorrow, and I am on inspections in Bundaberg on Friday. I will however look at emails on Friday morning and afternoon this week, and will be in the office several days next week.

Regards

Matt Karle
 Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

+-----+
Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water
+-----+

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Notice

Applicant agreement to further extend referral agency assessment period

This notice is issued by the Department of Environment and Resource Management pursuant to section 284 (referral agency's assessment period) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
C/- GHD
PO Box 1300
GYMPIE QLD 4570

CC: Gympie Regional Council
PO Box 155
GYMPIE QLD 4570

Our reference: 221737

Re: Application for development approval – further extension of referral agency's assessment period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency, requests the applicant's written agreement to extend the referral agency's assessment period, by 25 business days to 31 January 2012 for the following application(s).

2. Application Details

Date application made or referred to DERM:

21-DEC-2010

Development approval applied for:

development permit

Aspect(s) of development:

Referral Jurisdiction		DERM Reference
Concurrence Response for a MCU involving an ERA.	<i>Sustainable Planning Regulation 2009 - Schedule 7, table 2, Item 1</i>	SPCE01417310

Property/Location description:

Street address - Bonnick Road GYMPIE QLD 4570
Lot/Plan - Lot 542 Plan MCH801883



**Applicant agreement to further extend information request period, referral
agency's assessment period, decision making period**

Please sign this Notice where indicated below and return it to Matt Karle, the Project Manager, at the address stated below.

Applicant agreement

I/We as the above named applicant request to further extend the referral agency's assessment period to 31 January 2012.

CTPI 49-Sch4-Signature



13/12/2011

DATE

MICHAEL GRANT

PRINT NAME(S) OF SIGNATORY

CTPI 49-Sch4-Signature

Delegate
Tim Brain
Chief Executive,
Department of Environment and Resource Management

Enquiries:
Matt Karle
Department of Environment and Resource
Management
Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650
Phone: (07) 41211800
Fax: (07) 41211650

Karle Matt

From: [CTPI 49-Sch4-Name]@ane.com.au]
Sent: Tuesday, 13 December 2011 9:35 AM
To: Karle Matt
Subject: 2298 - Email - SW - Re: Bonnick Road Landfill

Hi Matt,

Sorry for the late response. This one got lost in my inbox.

The LA90 is an appropriate descriptor and is always used as a starting point. The aim of using the LA90 descriptor as a starting point is to protect the potential for background noise levels increasing higher and higher as more developments located to an area (known as background creep). The LA90 is the noise level exceeded 90% of the time. So often the planning LAeq noise criteria (LA90 + 5) for an assessment will be lower than existing LAeq noise levels in an area.

In the report, various DERM and EPP criteria have been referenced. However, the **limiting criteria** for the day-time has been adopted from the EPP (Noise), which states a noise criteria of LA90 + 5 for variable noises (which is applicable to a landfill).

Regards

[CTPI 49-Sch4-N]
 Environmental Engineer



Air Noise Environment Pty Ltd
 3/4 Tombo Street
 Capalaba
 QLD 4157

Tel: +61 7 3245 7808
 Fax: +61 7 3245 7809
 Mobile: [CTPI 49-Sch4-Md]
 Email: [CTPI 49-Sch4-I]@ane.com.au
 Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

On 02/12/11 12:06, Karle Matt wrote:

Hello [CTPI]

Further to our discussion yesterday, I have a further quick question for you. My question may exemplify a lack of understanding of noise and noise monitoring, for which I apologise early.

The scenario:

According to ANE report (August 2011), version 08, Section 3.3 provides results for ambient noise monitoring for both background locations. Table 3.4 provides a summary of average noise levels, with average L10 of 51dB(A), Leq 49dB(A), and L90 36dB(A). Figures 8, 9, 10 and 11 provide Leq contours, with everything exceeding 44dB(A) as an exceedence.

My questions:

If the ambient Leq is 49dB(A), why is anything exceeding 44dB(A) an exceedence?

The existing approval prescribes Background + 5dB(A) for LmaxadjT for compliance. If BG is taken to be L90 36dB(A), an LmaxadjT of 44dB(A) would be less than the ambient Leq. Is L90 an appropriate BG descriptor / starting point?

Your thoughts?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

+-----+
Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water
+-----+

Fax

To	Michael Grant	Fax	5481 0801
Subject	Extension of Assessment		
Reference	221737		
From	Matt Karle – DERM		
Phone	4121 1618	Fax	4121 1650
Email	Matt.karle@derm.qld.gov.au		
Date	14/10/2011	Pages (inc. cover)	2

Michael,

Please find attached a Notice of Extension of Referral Agency's Assessment Period. The Assessment Period has been extended by 20 business days.

CTPI 49-Sch4-Signature

Regards

Matt Karle

Principal Environmental Officer

Department of Environment and Resource Management

Important notice about confidentiality: This facsimile is intended only for the addressee and may contain confidential information. You are notified that any transmission, distribution or photocopying of this facsimile is prohibited. The confidentiality attached to this facsimile is not waived, lost or destroyed by reasons of a mistaken delivery to you. If you have received this facsimile in error, please notify us immediately by telephone.

Notice

Extension of referral agency's assessment period

This notice is issued by the Department of Environment and Resource Management pursuant to section 284 (referral agency's assessment period) of the Sustainable Planning Act 2009 ("the Act")

Gympie Regional Council
C/- GHD
PO Box 1300
GYMPIE QLD 4570

CC: Gympie Regional Council
PO Box 155
GYMPIE QLD 4570

Our reference: 221737

Re: Application for development approval – extension of assessment period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency has extended the assessment period by 20 business days to 11 November 2011 for the following application(s).

2. **Application Details**

Date application made or referred to DERM:

21-DEC-2010

Development approval applied for:

development permit

Aspect(s) of development:

Assessable Development		DERM Reference
Concurrence Response for a MCU involving an ERA	<i>Sustainable Planning Regulation 2009</i> - Schedule 7, table 2, item 1	SPCE01417310 -----

Property/Location description:

Street address - Bonnick Road GYMPIE QLD 4570
Lot/Plan - Lot 542 Plan MCH801883

CTPI 49-Sch4-Signature

Delegate

Chief Executive,
Department of Environment and Resource Management
14 October 2011

Enquiries:

Dayna Claybourn
Department of Environment and Resource
Management
ES-RSD-SER-Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650
Phone: (07) 41211800
Fax: (07) 41211650

MBH2011/1866

MBH2951-3

Kliendienst Kim

From: Karle Matt
Sent: Monday, 14 November 2011 2:27 PM
To: Kliendienst Kim
Subject: FW: GRC Agreement to the extension
Follow Up Flag: Follow up
Flag Status: Red
Attachments: assessperiod.pdf

Hello Kim,

Can this letter and attachment be printed and registered to file MBH951-3 please?

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Nadia Gulevich [mailto:Nadia.Gulevich@gympie.qld.gov.au]

Sent: Thursday, 10 November 2011 2:04 PM

To: Karle Matt

Subject: GRC Agreement to the extension

Your Reference: 221737

Good afternoon,

please find attached Council's agreement to further extend referral agency assessment period.

If you have any questions, please don't hesitate to contact Mr Michael Grant of Community Services Directorate on (07) 5481 0611.

Thank you,
Nadia

R

Nadia Gulevich

Administration Officer | Community Services

Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council

24 Mellor Street, Gympie QLD 4570

PO Box 155 Gympie QLD 4570

e-mail: nadia.gulevich@gympie.qld.gov.au | www.gympie.qld.gov.au

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Notice

Applicant agreement to further extend referral agency assessment period

This notice is issued by the Department of Environment and Resource Management pursuant to section 284 (referral agency's assessment period) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
C/- GHD
PO Box 1300
GYMPIE QLD 4570

CC: Gympie Regional Council
PO Box 155
GYMPIE QLD 4570

Our reference: 221737

Re: Application for development approval – further extension of referral agency's assessment period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency, requests the applicant's written agreement to extend the referral agency's assessment period, by 25 business days to 16 December 2011 for the following application(s).

2. **Application Details**

Date application made or referred to DERM:

21-DEC-2010

Development approval applied for:

development permit

Aspect(s) of development:

Referral Jurisdiction		DERM Reference
Concurrence Response for a MCU involving an ERA. -----	Sustainable Planning Regulation 2009 - Schedule 7, table 2, item 1	SPCE01417310 -----

Property/Location description:

Street address - Bonnick Road GYMPIE QLD 4570
Lot/Plan - Lot 542 Plan MCH801883

Applicant agreement to further extend information request period, referral
agency's assessment period, decision making period

Please sign this Notice where indicated below and return it to Dayna Claybourn, the Project Manager, at the address stated below.

Applicant agreement

I/We as the above named applicant agree to this request to further extend the referral agency's assessment period to 16 December 2011.

CTPI 49-Sch4-Signature



10/11/2011
DATE

MICHAEL GRANT

PRINT NAME(S) OF SIGNATORY

CTPI 49-Sch4-Signature

Delegate
Tim Brain
Chief Executive,
Department of Environment and Resource Management

Enquiries:
Matt Karle
Department of Environment and Resource
Management
Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650
Phone: (07) 41211800
Fax: (07) 41211650

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

MBH2011/1880

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

MBH2951-3

OTB
CMK

Our Ref: MRG:CMK01077
Your Ref:

15 November 2011

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services-North
South East Region
Department of Environment and Resource Management
PO Box 101
Maryborough QLD 4650

RECEIVED

18 NOV 2011

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

Dear Sir

**RE: Bonnick Road Redevelopment Application
- Additional Information**

I refer to your meeting with Council Officers and consultants on the 9/11/2011 and subsequent letter dated 10/11/2011. With respect to discussions regarding the landfill extension Council's consultants provide the following information to clarify your matters:-

These notes serve to confirm additional advice provided on site and afterwards at Council's office with respect to Council's Development Application for an extension of the existing landfill facility at Bonnick Rd. The meeting was held 9th November 2011 and it was attended by:-

Tim Brain DERM

Matt Karle DERM

Grayden Curry GRC

Ian Wolfe GRC

Bob Ashford GRC

Tanya Allen GRC

CTPI 49-Sch4-Nat Bellas & Reitano

CTPI 49-Sch4-Nat Bellas & Reitano.

A number of key issues relating specifically to the western extension of the landfill were discussed and clarified with the result that the DERM representatives indicated their support for the design concepts presented. These issues are:-

1.0 Flood Diversion of Upstream Catchments

The upstream catchment area has its headwaters bounded by Old Maryborough Rd to the east. It is drained by a major creek that enters the site from the north east and discharges into a recently constructed detention basin located immediately adjacent the site of the proposed Waste Transfer Station. The basin attenuates the upstream peak flow to 10m³/s which is conveyed by a single 2100mm diameter pipe located along the southern boundary (Cemetery side) of the landfill and discharges adjacent the proposed western cell extension.

Historically this creek was conveyed under the landfill via a 1350mm concrete pipe running in a NE-SW direction. Council has since capped the upstream end of this pipe. Over time Council noted that this pipe also conveyed leachate possibly as a result of damage to its crown from landfill operations. The current design allows for this pipe to discharge leachate into the new lined cell.

The upstream catchment is also drained by another creek that enters the site from the south east corner. This stormwater is conveyed by an open grassed swale drain constructed along the southern boundary of the site clear of the existing landfill. This open drain also serves as relief drainage for the other major creek flow in extreme events. Council's advice is that this constructed system performed satisfactorily without detriment to the landfill during the January 2011 flood event.

2.0 Flood Immunity of the Proposed Western Cell.

The base of the proposed landfill cell at GCL level slopes from RL 64 at the north east corner to RL 62 in the south west corner where the leachate manhole is also located. These levels are shown on Figure 1 of Council's recent response to DERM's RFI. It should be noted that waste will be located a further 300mm above GCL levels as shown by the section in Figure 4. These figures are appended for completeness.

Additional information on flood heights and ground water levels is presented on drawing 09110-02B attached which shows a typical section at a 1:10 distorted scale. It will be noted that the predicted Q100 flood will skirt the proposed landfill extension at RL 61.85. The Q50 flood level is much lower at RL60.08. Thus, on the lowest edge, the GCL will be between 150mm and 2150mm above the Q100 event. In addition the GCL will be placed on a 600mm low permeability clay layer and surrounded by a bund. Relative to seepage times through these clay containment layers, a Q100 event will be quick and therefore expected that such flood events will have no impact on the liner. Never-the less additional precautionary measures have been provided to protect the liner as further described below.

3.0 Liner Depressurisation

The recent response to DERM's RFI includes a discussion on a "Groundwater Depressurisation System" in Item 4.6. This description may give the impression that what is being proposed is some form of pump out system to lower the water table below the GCL. This is not the case.

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

A low permeability fractured rock underlies the majority of the landfill cell tending to a sandy clay towards the southern end. Drawing 09110-02B gives the level of ground water as measured in the bore holes June 2010. It shows that the water table was between 1m and 1.5m below the proposed GCL level. However as a fractured rock substrate it was considered that localised points of higher water table elevations may be possible at any location. It was therefore considered appropriate to install a ground water interception system in the form of "Megaflow" drains as described in section 4.6 of the response. Their function is to relieve any localised areas of high pressure that may occur.

It should be noted that this protection is required while the base is vulnerable and this is during the time when there is no waste on the base. Normal procedure will require that a minimum 1m deep layer of select waste be placed on the confining layer shown in Figure 4 as soon as practically possible. The total weight of such layers is equivalent to a static head of 1.5m of water above the GCL level. We already know that the Q100 and the last recorded ground water levels are below the lowest point of the GCL liner. It can therefore be concluded that the proposed design represents a conservative approach with a low risk of impact by ground water and flood waters.

4.0 Leachate Re-circulation

Five 600mm diameter recirculation wells have been bored a minimum 12m deep into the existing landfill. A typical installation was inspected on site by everyone. Construction includes 100mm slotted sewer pipe with gravel packed in the annular area between pipe and bore hole. Leachate is pumped into these wells and the gravel pack aids in the lateral and vertical distribution of leachate into the waste pile. Distribution will vary according the permeability of the waste layers; however experience suggests that such wells will influence an area of some 60m diameter. The other benefit is that such wells will punch through any water tables perched on intermediate day cover therefore reducing and in many cases eliminating the potential for batter seeps of leachate. The top of the well pipe includes two tees; one to allow for leachate injection and another connects to a horizontal slotted off-take pipe that is covered in wood mulch. This allows gases to be treated through the wood mulch and assists with the management odorous gases.

5.0 Sediment Pond size

The proposed sediment basin size has been based on DERM's recommendation that it be capable of storing the 24 hour 1in 10 year stormwater rainfall over the affected area. Conservatively, the disturbed area has been calculated at 3.75Ha and extends the full width of the proposed new cell of 250m and back 150m to the east encompassing the entire landfill west face and part of the existing landfill top. On this basis a storage volume of 6,000 m³ is required and is available in the sediment pond. The top of the sediment pond bund wall will be set to provide approximately a further 0.5m freeboard. As discussed on site the sediment pond bund wall will include a permeable weir and overflow spillway to protect the wall. The spillway will discharge into a channel designed to minimise water velocities and therefore the potential to scour.

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

With respect to proposed landfill conditions, please forward to Council as soon as possible to allow staff adequate time to review the draft conditions.

I confirm that Council's noise consultant is reviewing the concept plan for the proposed transfer station to identify design and construction improvements that will achieve compliance with the DERM noise planning guideline. Council will forward this information to you when the consultants have completed this work.

I trust the above information is adequate for your assessment of Council's landfill extension.

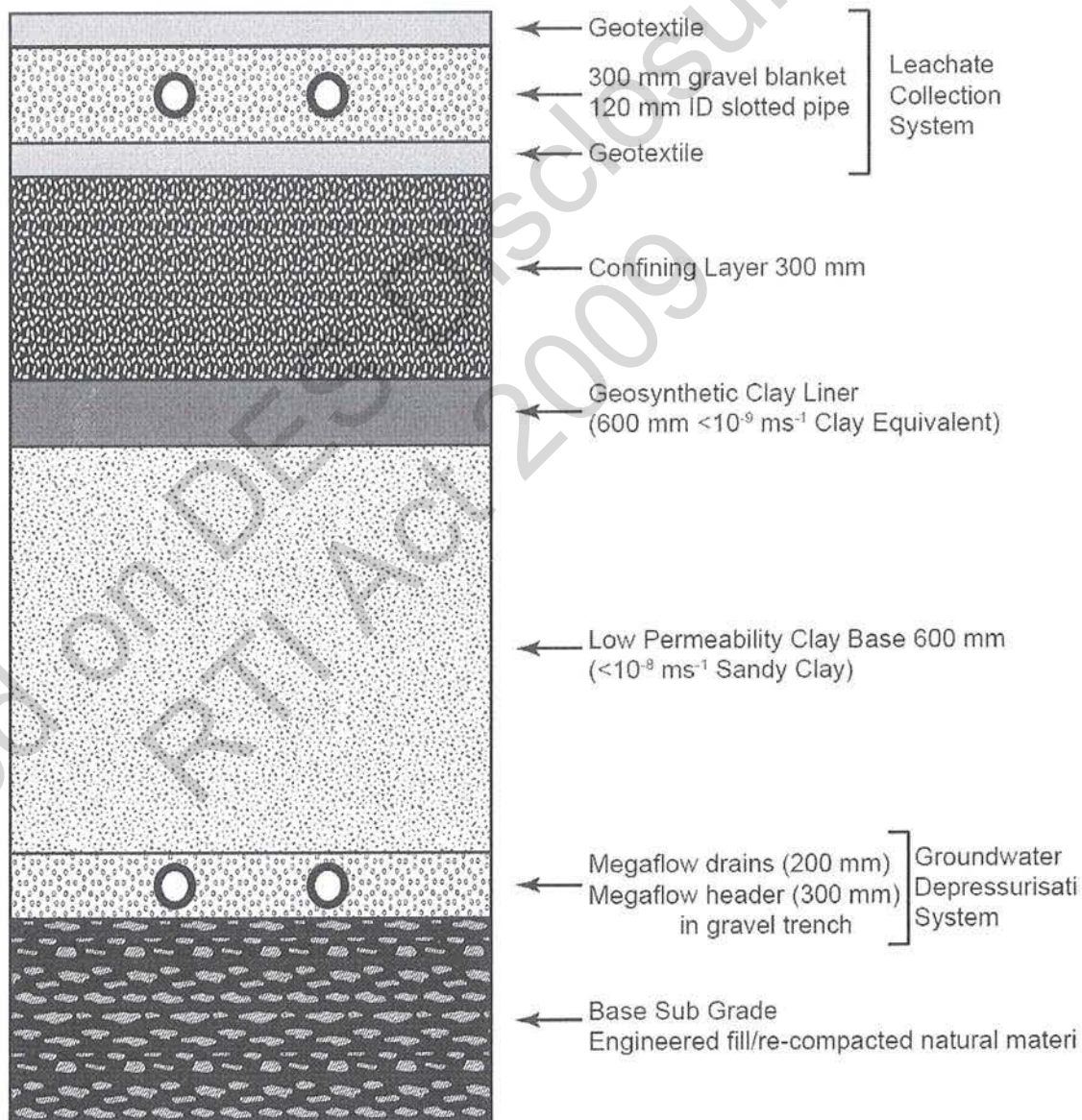
Yours faithfully

CTPI 49-Sch4-Signature

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER

Schematic of landfill containment engineering including base sub grade

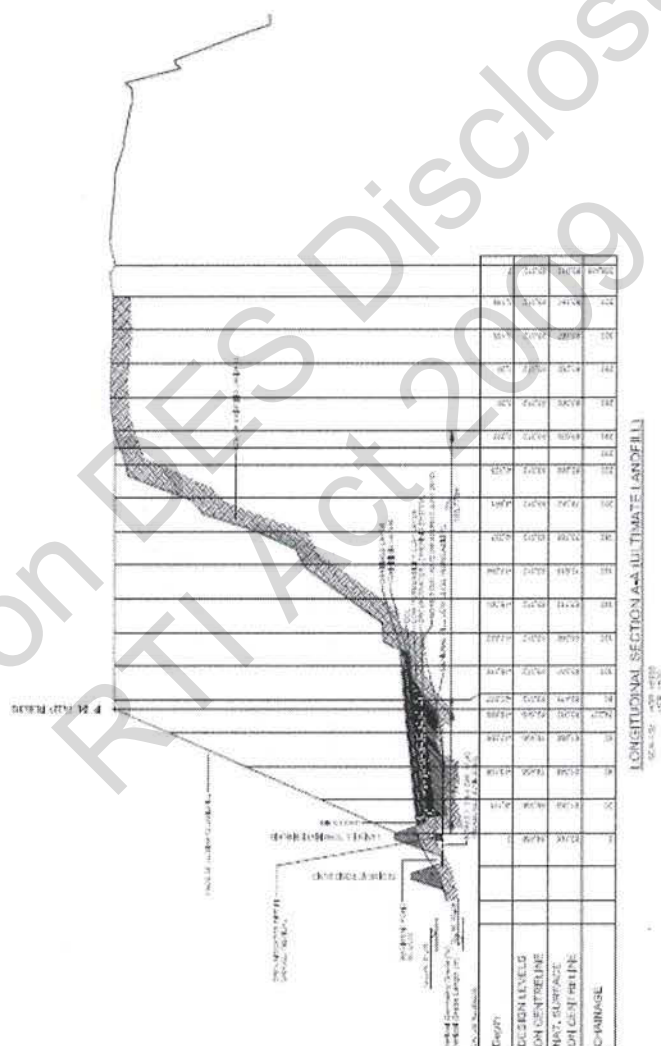
NOT TO SCALE





Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au


REILAS & REIFANO
PTY LTD
 1001 Singapore Road North
 Singapore 768000
 Tel: 335 1300
 Telex: 335 1300
 Fax: 335 1300



Karle Matt

From: Christine Kennedy [Christine.Kennedy@gympie.qld.gov.au]
Sent: Tuesday, 15 November 2011 4:26 PM
To: Karle Matt
Subject: RE: Bonnick Road Redevelopment Application Additional Information

Dear Matt,

I am sorry about that, but that is how the page was that Michael forwarded to me.

He is away at a meeting at the moment, but I will try to get the original from him as soon as he gets back and forward it on to you and Tim.

Once again sorry for the inconvenience.

Regards

Christine Kennedy
Personal Assistant
Director of Community Services
Gympie Regional Council
Community Services Directorate
Telephone: (07) 5481 0611
Facsimile: (07) 5481 0801

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 15/11/2011 4:20 PM >>>

Thanks Christine.

Do you know if there is a clearer copy of the image included on page 6 of the document attached to your email? The dimensions and wording on that diagram are not legible.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Christine Kennedy [mailto:Christine.Kennedy@gympie.qld.gov.au]
Sent: Tuesday, 15 November 2011 3:07 PM
To: Karle Matt; Brain Tim (DERM)

R

Subject: Bonnick Road Redevelopment Application Additional Information

With Regards

Christine Kennedy

Personal Assistant

Director of Community Services

Gympie Regional Council

Community Services Directorate
Telephone: (07) 5481 0611

Facsimile: (07) 5481 0801

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

Published on DES Disclosure Log
RTI Act 2009

R

MBH2011/1873

MBH2951-3

①MK

Kliendienst Kim

From: Karle Matt
Sent: Tuesday, 15 November 2011 4:21 PM
To: Kliendienst Kim
Subject: FW: Bonnick Road Redevelopment Application Additional Information
Follow Up Flag: Follow up
Flag Status: Red
Attachments: DOC151111.pdf

Hello Kim,

This email and its attachment relate to the Bonnick Road application I am currently assessing.

Are you able to print it and register it to file MBH2951-3?

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Christine Kennedy [mailto:Christine.Kennedy@gympie.qld.gov.au]
Sent: Tuesday, 15 November 2011 3:07 PM
To: Karle Matt; Brain Tim (DERM)
Subject: Bonnick Road Redevelopment Application Additional Information

With Regards

Christine Kennedy
Personal Assistant
Director of Community Services
Gympie Regional Council
Community Services Directorate
Telephone: (07) 5481 0611
Facsimile: (07) 5481 0801

R

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.



**GYMPIE
REGIONAL
COUNCIL**

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

PO Box 155
Gympie QLD 4570

Phone: 1800 307 800
Fax: (07) 5481 0801
ABN: 91 269 630 353

Our Ref: MRG:CMK01077
Your Ref:

15 November 2011

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services-North
South East Region
Department of Environment and Resource Management
PO Box 101
Maryborough QLD 4650

Dear Sir

**RE: Bonnick Road Redevelopment Application
- Additional Information**

I refer to your meeting with Council Officers and consultants on the 9/11/2011 and subsequent letter dated 10/11/2011. With respect to discussions regarding the landfill extension Council's consultants provide the following information to clarify your matters:-

These notes serve to confirm additional advice provided on site and afterwards at Council's office with respect to Council's Development Application for an extension of the existing landfill facility at Bonnick Rd. The meeting was held 9th November 2011 and it was attended by:-

Tim Brain DERM

Matt Karle DERM

Grayden Curry GRC

Ian Wolfe GRC

Bob Ashford GRC

Tanya Allen GRC

CTPI 49-Sch4-Na Bellas & Reitano

CTPI 49-Sch4-Na Bellas & Reitano.

A number of key issues relating specifically to the western extension of the landfill were discussed and clarified with the result that the DERM representatives indicated their support for the design concepts presented. These issues are:-

1.0 Flood Diversion of Upstream Catchments

The upstream catchment area has its headwaters bounded by Old Maryborough Rd to the east. It is drained by a major creek that enters the site from the north east and discharges into a recently constructed detention basin located immediately adjacent the site of the proposed Waste Transfer Station. The basin attenuates the upstream peak flow to 10m³/s which is conveyed by a single 2100mm diameter pipe located along the southern boundary (Cemetery side) of the landfill and discharges adjacent the proposed western cell extension.

Historically this creek was conveyed under the landfill via a 1350mm concrete pipe running in a NE-SW direction. Council has since capped the upstream end of this pipe. Over time Council noted that this pipe also conveyed leachate possibly as a result of damage to its crown from landfill operations. The current design allows for this pipe to discharge leachate into the new lined cell.

The upstream catchment is also drained by another creek that enters the site from the south east corner. This stormwater is conveyed by an open grassed swale drain constructed along the southern boundary of the site clear of the existing landfill. This open drain also serves as relief drainage for the other major creek flow in extreme events. Council's advice is that this constructed system performed satisfactorily without detriment to the landfill during the January 2011 flood event.

2.0 Flood Immunity of the Proposed Western Cell.

The base of the proposed landfill cell at GCL level slopes from RL 64 at the north east corner to RL 62 in the south west corner where the leachate manhole is also located. These levels are shown on Figure 1 of Council's recent response to DERM's RFI. It should be noted that waste will be located a further 300mm above GCL levels as shown by the section in Figure 4. These figures are appended for completeness.

Additional information on flood heights and ground water levels is presented on drawing 09110-02B attached which shows a typical section at a 1:10 distorted scale. It will be noted that the predicted Q100 flood will skirt the proposed landfill extension at RL 61.85. The Q50 flood level is much lower at RL60.08. Thus, on the lowest edge, the GCL will be between 150mm and 2150mm above the Q100 event. In addition the GCL will be placed on a 600mm low permeability clay layer and surrounded by a bund. Relative to seepage times through these clay containment layers, a Q100 event will be quick and therefore expected that such flood events will have no impact on the liner. Never-the less additional precautionary measures have been provided to protect the liner as further described below.

3.0 Liner Depressurisation

The recent response to DERM's RFI includes a discussion on a "Groundwater Depressurisation System" in Item 4.6. This description may give the impression that what is being proposed is some form of pump out system to lower the water table below the GCL. This is not the case.



GYMPIE REGIONAL COUNCIL

PO Box 165
Gympie QLD 4570
Phone: 1300 807 800
Fax: (07) 5481 0801
ABN: 91 269 630 353

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

A low permeability fractured rock underlies the majority of the landfill cell tending to a sandy clay towards the southern end. Drawing 09110-02B gives the level of ground water as measured in the bore holes June 2010. It shows that the water table was between 1m and 1.5m below the proposed GCL level. However as a fractured rock substrate it was considered that localised points of higher water table elevations may be possible at any location. It was therefore considered appropriate to install a ground water interception system in the form of "Megaflow" drains as described in section 4.6 of the response. Their function is to relieve any localised areas of high pressure that may occur.

It should be noted that this protection is required while the base is vulnerable and this is during the time when there is no waste on the base. Normal procedure will require that a minimum 1m deep layer of select waste be placed on the confining layer shown in Figure 4 as soon as practically possible. The total weight of such layers is equivalent to a static head of 1.5m of water above the GCL level. We already know that the Q100 and the last recorded ground water levels are below the lowest point of the GCL liner. It can therefore be concluded that the proposed design represents a conservative approach with a low risk of impact by ground water and flood waters.

4.0 Leachate Re-circulation

Five 600mm diameter recirculation wells have been bored a minimum 12m deep into the existing landfill. A typical installation was inspected on site by everyone. Construction includes 100mm slotted sewer pipe with gravel packed in the annular area between pipe and bore hole. Leachate is pumped into these wells and the gravel pack aids in the lateral and vertical distribution of leachate into the waste pile. Distribution will vary according the permeability of the waste layers; however experience suggests that such wells will influence an area of some 60m diameter. The other benefit is that such wells will punch through any water tables perched on intermediate day cover therefore reducing and in many cases eliminating the potential for batter seeps of leachate. The top of the well pipe includes two tees; one to allow for leachate injection and another connects to a horizontal slotted off-take pipe that is covered in wood mulch. This allows gases to be treated through the wood mulch and assists with the management odorous gases.

5.0 Sediment Pond size

The proposed sediment basin size has been based on DERM's recommendation that it be capable of storing the 24 hour 1 in 10 year stormwater rainfall over the affected area. Conservatively, the disturbed area has been calculated at 3.75Ha and extends the full width of the proposed new cell of 250m and back 150m to the east encompassing the entire landfill west face and part of the existing landfill top. On this basis a storage volume of 6,000 m³ is required and is available in the sediment pond. The top of the sediment pond bund wall will be set to provide approximately a further 0.5m freeboard. As discussed on site the sediment pond bund wall will include a permeable weir and overflow spillway to protect the wall. The spillway will discharge into a channel designed to minimise water velocities and therefore the potential to scour.



Community Services

Phone: (07) 5481 0811
Email: council@gympie.qld.gov.au

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 363

With respect to proposed landfill conditions, please forward to Council as soon as possible to allow staff adequate time to review the draft conditions.

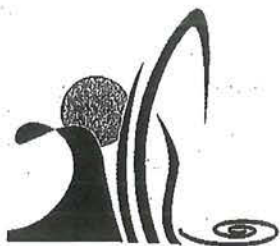
I confirm that Council's noise consultant is reviewing the concept plan for the proposed transfer station to identify design and construction improvements that will achieve compliance with the DERM noise planning guideline. Council will forward this information to you when the consultants have completed this work.

I trust the above information is adequate for your assessment of Council's landfill extension.

Yours faithfully

CTPI 49-Sch4-Signature

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER



GYMPIE REGIONAL COUNCIL

PO Box 155
Gympie QLD 4570

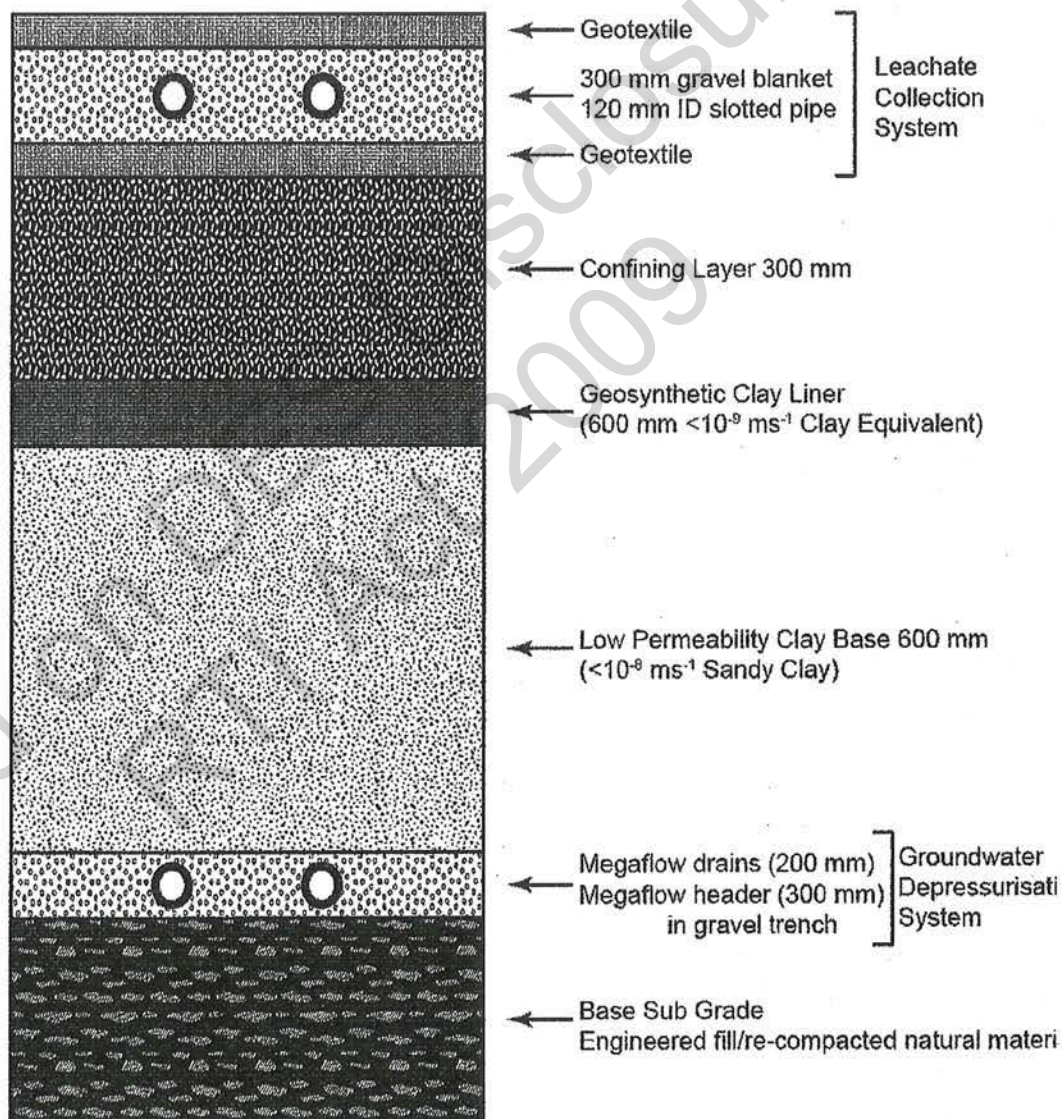
Phone: 1800 307 800
Fax: (07) 5431 0801
ABN: 91 269 530 653

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

Schematic of landfill containment engineering including base sub grade

NOT TO SCALE



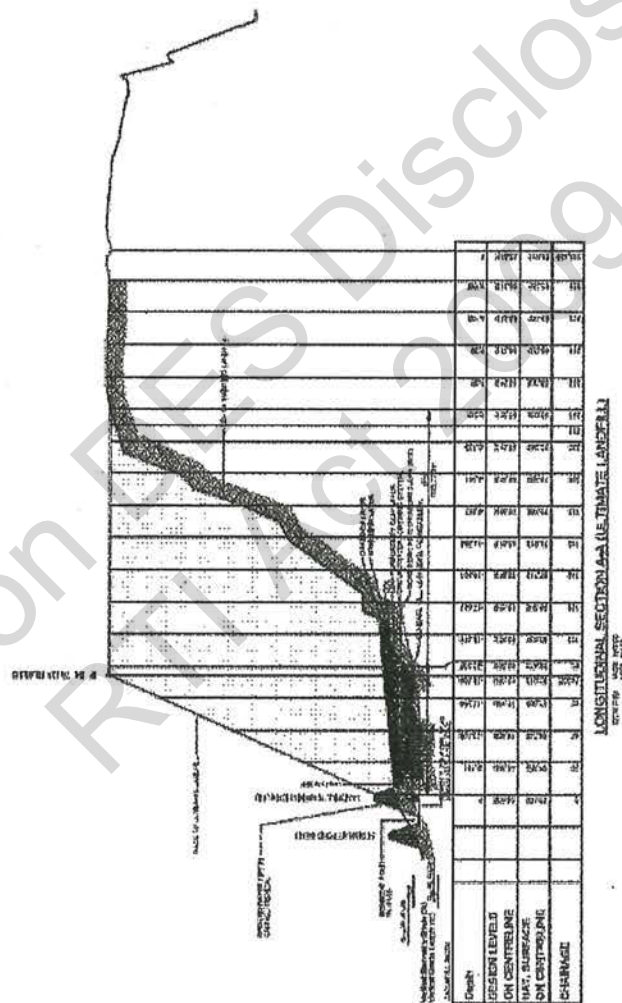
Gympie Regional Council
Bonnick Rd Landfill Development Application
Response to DERM Information Request
September 2011

PO Box 155
Gympie QLD 4570
Phone: 1800 807 800
Fax: (07) 5481 0801
ABN: 91 269 530 553

Community Services

Phone: (07) 5481 0811
Email: council@gympie.qld.gov.au

 BELLAS & REITANO PTY LTD SPECIALISING IN THE CONSTRUCTION OF ALL TYPES OF ROADS AND BRIDGES 1144 BRYCE STREET, GYMPIE, QLD 4570 PH: (07) 5481 0811 FAX: (07) 5481 0801 ABN: 91 269 530 553	PROJECT NO: 10010-003 DRAWING NO: 10010-003-01 SCALE: 1:100 DATE: 10/10/03	
	CLIENT: GYMPIE REGIONAL COUNCIL PROJECT: GYMPIE REGIONAL COUNCIL DRAWING: GYMPIE REGIONAL COUNCIL SCALE: 1:100 DATE: 10/10/03	



Gympie Regional Council

Bonnick Road Landfill

Development Application

Response to DERM Information Request

September 2011

RECEIVED

16 SEP 2011

DEPT OF ENVIRONMENT
& RESOURCES MANAGEMENT
MARYBOROUGH

RITANO - Consulting

* Donald Myers

indip consult

James Smith

- G.D.R. Research Inc. 01

TABLE OF CONTENTS

1	INTRODUCTION	1
2	ENVIRONMENTAL MONITORING AND PERFORMANCE	2
3	GEOLOGICAL AND HYDROGEOLOGICAL ASSESSMENT	9
4	LANDFILL DESIGN	15
5	NOISE	21
6	RECEIVING WASTE	25
7	GENERAL	29
8	AIR	32
9	WATER	35
	APPENDIX A.....	38
	DERM INFORMATION REQUEST	
	APPENDIX B.....	39
	SURFACE WATER QUALITY DATA	
	APPENDIX C.....	40
	LEACHATE QUALITY DATA	
	APPENDIX D.....	41
	FIGURES	
	APPENDIX E.....	42
	GROUNDWATER MONITORING REPORT (OCTOBER 2010)	
	APPENDIX F.....	43
	LANDFILL LINER CONSTRUCTION SCHEMATIC	
	APPENDIX G.....	44
	ACOUSTIC ASSESSMENT (AUGUST 2011)	
	APPENDIX H.....	45
	PLAN OF POTENTIAL RECEPTORS	
	APPENDIX I.....	46
	AIR QUALITY ASSESSMENT (JULY 2011)	

Who wrote this?

1 INTRODUCTION

On 21 December 2010, Gympie Regional Council (GRC) submitted a Development Application to the Department of Environment and Resource Management (DERM) for a Development Permit for a Material Change of Use (MCU) of premises for an Environmentally Relevant Activity (Sustainable Planning Regulation, 2009 - Schedule 3, Part 1, Table 2, item 1), namely to construct and operate a new landfill cell and a Waste Transfer Station (WTS) at GRC's major landfill site located at Bonnick Road Gympie. The land is described as Lot 543 on Plan MCH801883.

Following review of the application, DERM issued an Information Request under Section 276 of the Sustainable Planning Act (2009). The request was issued on 27 January 2011 and is identified by DERM as follows:

- Reference No. 221737
- Permit No. SPCE01417310

Council have reviewed the Information Request and provide the following response. For ease of reference, DERM's Information request has been reproduced and Council's response has been interleaved within the DERM document at the relevant points. The DERM request is in black font and the GRC response is in red font. The document is laid out in the order in which DERM has requested the information. A copy of the original request is contained in Appendix A.

2 ENVIRONMENTAL MONITORING AND PERFORMANCE

Concern

The information is lacking in consideration of environmental monitoring information collected from the site over the lifetime of operation and applied to the current application. Such information provides real and relevant data and an indication as to the operational performance of the site, including likely or ongoing issues that must be considered in the assessment process.

Information Requested

Please provide the following information:

- Summary and evaluation of all available environmental monitoring and performance data that has been undertaken at the site during its lifetime, information to include any:

2.1 Surface water analysis results and trends

Surface water monitoring events occurred in February, March, and May 2010 and March 2011. The sampling site was located in the area that has been excavated for the proposed landfill extension.

The surface water data indicate that with the exception of raised pH, TVs have not been consistently exceeded. On occasion, there has been minor elevation of dissolved oxygen and electrical conductivity, although the latter does not appear to correlate with elevated salt concentrations. Phosphorus has been elevated on one occasion. The tabulated data are contained in Appendix B.

Additional surface water management infrastructure forms part of the proposed development. The works, which include improved diversion of up-slope stormwater and capture and primary treatment of storm water from the operational area, will markedly improve the quality of surface water that leaves the site.

2.2 Contaminated water/leachate analysis results and trends.

Leachate sampling and analysis has been undertaken on nine occasions since July 1998. All samples were taken from the leachate sump. There has been no consistent parameter suite for this monitoring. The tabulated data are contained in Appendix C. The notable features of the data are discussed below.

Suspended solids have been measured on all sampling occasions (min: 16 mg L⁻¹ on 06/07/1998; max: 1381 mg L⁻¹ on 12/02/2002 and 12/11/2011). There is no clear trend in the data and the concentrations of suspended solids are not at levels that would cause concern.

Leachate pH has been measured on six of the nine sampling events, with a minimum of 6.7 (22/10/2002) and a maximum of 7.2 (06/07/1998). The data indicate that the landfill is relatively mature and that there is a healthy balance of waste-degrading micro-organisms. The relatively neutral pH does not favour the solubilisation of metals.

Analysis was undertaken for benzene, toluene, ethylbenzene and xylene (BTEX) but was below the limit of detection on all occasions.

Electrical conductivity has been measured on four occasions (12/02/2002, 19/10/2005 and 17/05 2010). From the small amount of data available, there appears to be a trend toward increasing salinity (min: 1628 $\mu\text{S cm}^{-1}$ 12/02/2002; max: 5930 $\mu\text{S cm}^{-1}$ on 17/05 2010). High salt levels in leachate, however, are not unusual.

Analysis for metals has yielded concentrations that are all in the sub mg L⁻¹ range. These low concentrations are consistent with the relatively neutral pH of the leachate. There appears to be a trend toward increasing metals concentrations, although the data set is currently inadequate to consider that a trend has been established. Of possible concern is the appearance of an elevated As concentration in the May 2010 sampling round. As noted elsewhere, however, high As levels are a feature of the natural soils of the Gympie region. The high As level may therefore be due to the use of local soils as cover material rather than the presence of As-contaminated waste in the landfill.

Nitrogen has been monitored on only a few occasions. Both ammonia and total N have been elevated on occasion. This is expected, however, for a landfill receiving fresh organic waste on a daily basis and is not a cause for concern.

Biological Oxygen Demand (BOD) has been monitored on seven occasions. The data fluctuate considerably (min: 22 mg L⁻¹ on 06/07/98; max: 155 mg L⁻¹ on 17/06/99) and there is no clear trend. The BOD levels are consistent with the presence of a major fraction of organic material in the waste stream.

In May 2010, the analytical suite was substantially extended to include organochlorine and organophosphorus pesticides, phenoxy acid and quaternary ammonium herbicides, halogenated aliphatic and aromatic compounds, Phenolic compounds, polynuclear aromatic hydrocarbons and total petroleum hydrocarbons. Of the 128 compounds and fractions screened, only naphthalene and the TPH fractions were above the limit of detection.

The concentration of naphthalene was 1.2 $\mu\text{g L}^{-1}$. Naphthalene is not a regulated contaminant in drinking water in Australia or the United States. While adverse health effects can occur at high doses (considerably higher than 1.2 $\mu\text{g L}^{-1}$) via ingestion and skin contact, the potential for exposure of the facility staff or the public via these pathways is minimal.

The highest concentration of TPH was the C15-C28 band, which was 4.4 mg L⁻¹. Provided the leachate is recirculated, a certain level of bioremediation of the TPH compounds would be expected. Thus, provided that there is not a major source of TPH contamination within the landfill and that operating procedures are effective at excluding hydrocarbons from the waste stream, TPH levels would be expected to stabilise or fall.

In summary, the available data suggest that the quality of leachate sampled at the Bonnick Road Landfill does not at present provide cause for concern. The primary safeguards against impacts from landfill leachate are a properly designed, constructed and operated leachate collection and recirculation system and appropriate and adequately enforced waste acceptance criteria.

2.3 Groundwater monitoring borehole analysis results and groundwater water level trends.

Groundwater sampling is undertaken on a quarterly basis in the months of April, July, October and January. There are four monitoring bores on the site (designated as MB1, MB2, MB3 and MB4). The location of the bores is shown on Figure 1 (Appendix D). Monitoring Bore MB2 was replaced by bore MB5 in December 2010. Monitoring bores MB2, 3 and 4 are located down gradient of the existing waste pile and the proposed new cell. Bore MB3 is within the foot print of the proposed sedimentation pond and will be relocated prior to commencement of works. Bore MB 1 is located in the northern area of the site, close to the fence line and is up gradient of the waste disposal area.

Six rounds of sampling have been undertaken since March 2009. The most recent groundwater report was prepared by Australian Groundwater and Environmental Consultants Pty Ltd (AGE) in October 2010. The AGE report is contained in Appendix E. The analytical results have been compared, where relevant, to the default TVs derived for freshwater lowland streams contained in:

- ANZECC (2000), agriculture and aquatic ecosystems; and,
- Queensland Water Quality Guidelines (QWQG, 2009)

Groundwater salinity is lowest in MB 1, although salinity in MB 2 fell consistently since April 2009 and was 417 mg L⁻¹ in August 2010. In the two subsequent monitoring events, however, the salinity had risen to around 2,500-2,600 mg L⁻¹. In general, the salinity of the groundwater exceeds the TVs for lowland freshwater streams but is suitable for stock watering.

The results of analysis for trace metals have shown the presence of significant intra and inter bore variability. Samples from all bores have had concentrations of trace metals that exceeded the aquatic ecosystems TVs, although the exceedances have in general been minor. It is notable that the higher concentrations of As, Fe and Zn were found in the up gradient bore MB1, which is not affected by waste disposal activities. This result is, therefore, considered to be due the prevalence of these metals in the naturally occurring minerals rather than contamination from landfill leachate. Arsenic in

particular is often found at high concentrations in gold mining areas. The concentrations of trace metals in samples from the down gradient bores are steady or possibly decreasing and are suitable for stock watering.

The results of nutrient analyses indicate that the concentration of the various forms of nitrogen in the groundwater is relatively low. The combined concentration nitrite and nitrate slightly exceeds the QWQG TV. AGE consider that the source of this contamination is unlikely to be from landfill leachate, as this typically results in gross nutrient contamination. This is consistent with the analytical results for Biological Oxygen Demand (BOD), which was low in samples from all bores. Concentrations of total phosphorus in the groundwater samples exceeded the QWQG TVs. AGE consider that this may be due to the presence of suspended sediment in the samples.

2.4 Air emission monitoring results, including landfill gas, particulates and odour monitoring that may have been conducted.

A landfill gas survey was undertaken by AGE in August 2009. The presence of methane was taken as being indicative of land fill gas. The property boundary was assessed at 11 locations, 36 structures were assessed and the waste pile was assessed at 121 locations.

Methane was not detected at any location on the property boundary. Methane concentrations in facility structures were all below the regulatory limit (Condition 2B5 of Environmental Authority CM0309) of 25% of the Lower Explosive Limit (LEL) for methane.

Only three of the 121 locations tested on the waste pile recorded methane concentrations greater than 500 ppm (the limit set in condition 2B5). Two of these locations recorded concentrations of less than 540 ppm and the third location (southeastern corner batter) was recorded at 1300 ppm. This high reading was very localized. Within 5 m of this area, the methane concentration had fallen to 35 ppm or less.

It was concluded by AGE (2009) that the assessment of methane seepage associated with the waste pile suggested that concentrations in excess of 25 ppm tended to occur

at the toe of the landfill batters where they meet natural material. Seepage might be reduced by improving the capping in this area. — Do?

2.5 Nuisance reports, if any, received at the site, actions taken and the outcome.

Gympie Regional Council have received 22 complaints in relation to the operation of the Bonnick Road Landfill or the development currently proposed for the landfill since December 2001. No records are available prior to this time. A number of complaints address both current operations and the proposed development. Complaints have been lodged directly with council staff, by telephone, letter and email. With the exception of a complaint lodged on 21 December 2001, all complaints were received after 27 August 2009.

The bulk of the complaints relating to operational matters centre on odour and noise. The details recorded at the time by council staff investigating the complaints suggest that most of the odour issues arose from inadequate or poorly applied daily cover material, failure to cover the waste due to plant breakdowns and complications associated with disposal and cover application during the recent extended period of wet weather. In most cases, the odour problem was remedied within one or a few days. Occasionally, the investigating officer could not verify the presence of the offending odour even within an hour of the complaint being lodged, suggesting that odour issues are sometimes transient.

In two cases, the source of the odour was identified as decomposing shredded green waste. The material was shredded on site and stockpiled for subsequent use in site remediation activities. The odour was controlled by spraying the material with a deodouriser.

Two complaints relating to undue noise emanating from the facility were triggered by a green waste shredding operation. On one occasion, Council officers confirmed the intrusive nature of the noise at the complainant's residence. The shredding operation, however, was temporary as green waste was only shredded on an as-needed basis.

Six complaints have been received regarding the potential impacts on residential lifestyle that may occur due to the operation of the recycling facility proposed for the site. Although the concerns of the complainants were wide ranging, the issues of odour, noise and health impacts resulting from dust emissions were common.

One complainant wrote to Mr Warren Truss MP (federal member for Wide Bay), detailing their concerns. Mr Truss, in turn, wrote to the Mayor (Cr. Ron Dyne) on 19 November 2010, seeking comment on the submission. The Mayor responded to Mr Truss on 25 November 2010, indicating that he had met with the complainant and that the complainant was satisfied with the outcome of the discussion.

In view of the proximity of the landfill to residential areas and the complaint history associated with the facility, Council has made an undertaking that the operational paradigm for the proposed development will not include green waste shredding or concrete crushing. The absence of these activities will therefore significantly reduce the potential for odour and dust complaints. In addition, Council has purchased landfill lid covers with odour suppression which will be used to cover the working face of the landfill at the end of each day. This will further reduce the potential for odour nuisance. Control of odour from waste disposal operations will always be of concern and will always be a challenge in wet weather. Close attention to operational requirements, however, will minimise the potential for complaints.

3 GEOLOGICAL AND HYDROGEOLOGICAL ASSESSMENT

Concern

The design and operation of the landfill must consider the local geological and hydrogeological conditions. Given recent rainfall/flooding events, it is highly likely that hydrogeological conditions, circumstances and risks will have changed in the period since the investigations were conducted and the reports contained in this application submitted; ground water levels will have risen (as was considered likely in the submitted report) and pathways may well have changed.

The available data indicate that the magnitude of the environmental risk posed by a potential degradation in groundwater quality caused by operation of the proposed landfill extension is very low. This is because the subsurface strata have a poor ability to transmit water, there is a likelihood that sensitive receptors rely on the groundwater system is minimal and most importantly, the design and operation of the landfill makes it highly unlikely that any significant quantity of contaminants will reach the groundwater system. These matters are addressed below.

Information required

- An evaluation of the current local hydro-geological systems at the site, to include as a minimum:

3.1 Groundwater and surface water quality and flow regimes; including data and mapping on all water features, surface water, saturated/unsaturated zones and any perched water features together with identification of any potential or known linkages with waters in hydraulic continuity and evidence of supporting site investigations.

Council undertakes routine monitoring of groundwater and surface water at the Bonnick Road site. Surface water quality has been discussed above in Section 2.1 (Surface water analysis results and trends) (Environmental Monitoring and Performance). The data show that surface water quality is largely compliant with relevant surface water quality trigger values.

Groundwater quality is discussed above in Section 2.3 (Groundwater monitoring borehole analysis results and groundwater water level trends.). The latest groundwater report indicates that landfilling operations are not producing any

significant impact on groundwater quality (AGE, October 2010; Refer Appendix E). An important outcome of the monitoring program was the finding that groundwater levels and quality were not significantly influenced by the record wet season of 2010/2011, as typified by groundwater electrical conductivity measurements from monitoring bores MB2 and MB3 (Figure 2, Appendix D. While values have fluctuated over the monitoring period, they have not been unduly affected by the flooding in December/January 2010/2011.

At the site of the Bonnick Road Landfill, the underlying stratum is comprised of a low permeability clay-based alluvium overlying fractured bedrock. Both the alluvium and fractured rock have low transmissivity, as was demonstrated by testing undertaken for the landfill design. Thus, the underlying stratum does not have sufficient permeability to allow significant volumes of groundwater to flow to any bores, creeks or groundwater-dependent vegetation.

The relatively flat hydraulic gradient and low hydraulic conductivity of the alluvium and bedrock at the landfill site means that the seepage of groundwater as base flow into Peter and Paul Gully (which runs through the western area of the site) from the area under the landfill is very low (base flow has not been observed in Peter and Paul Gully to date). The volume of any base flow that might occur during periods of rainfall runoff is also expected to be very low. Thus, the water balance in the gully is dominated by runoff. Groundwater discharges can make only a very small contribution to surface water flows and are highly unlikely to significantly impact on the water quality in the gully.

Runoff that reaches Peter and Paul Gully flows through an adjacent golf course, then through largely cleared paddocks before discharging into the Mary River. The volume of groundwater discharge from the landfill site, reporting to the Mary River via surface water flows is considered to be inconsequential. Accordingly, there is very low potential for impacts from leachate-contaminated groundwater on local or downstream surface water.

It should be noted that the design level for the base of the landfill is well above the water table, which was determined from site-specific data. Measurements from

permanent bores indicate that the water table remained below the design level during some of the wettest periods on record. When it is also considered that the design includes a groundwater depressurization system, the potential for any hydraulic connection between the landfill and the underlying groundwater is extremely small.

any link?

3.2 Ground water and surface water vulnerability - resource users and sensitive receptors.

The vulnerability of groundwater and secondarily, surface water is directly proportional to the potential for leachate to reach the aquifer below the landfill base. The current design is considered to reduce the potential for contamination of groundwater with landfill leachate to an acceptable level. This issue is dealt with in detail in Section 4.4 (Liner System, Construction and Predicted Performance).

Groundwater typically discharges from the subsurface via a range of potential pathways including base flow into surface water bodies (discussed above) such are creeks or rivers, through pumping from bores and/or through evapotranspiration by vegetation with root systems that have penetrated the aquifer. The potentially vulnerable/sensitive receptors are therefore those that rely on water supplied by these discharge mechanisms.

At the landfill site, the groundwater flow direction is a subdued reflection of the surface topography with the main discharge mechanism for groundwater would be base flow into Peter and Paul Gully. Base flow has not been observed in this gully, which is typically dry or a series of unconnected pools on the gully bed. These observations suggest that if there is discharge via base flow, then the discharge rate is typically lower than the evaporation rate.

Other receptors that are potentially sensitive to leachate contaminated groundwater are users of water extracted by bores and vegetation with root systems in the local aquifer(s). A search of the DERM groundwater database was undertaken to determine if any registered groundwater bores are present within the vicinity of the proposed landfill extension. The DERM database indicates that there are no registered groundwater bores within 1 km of the landfill site. This discharge pathway is therefore

not present. It should also be noted that groundwater monitoring indicates that the water quality is suitable for stock watering (AGE, 2010).

Most of the land around Peter and Paul Gully in the vicinity of the landfill site has been cleared or is occupied by residential, commercial and industrial premises and it is therefore unlikely that groundwater dependent vegetation is present. In addition, municipal waste landfill leachate is typically high in nutrients and unlikely to pose a risk to vegetation when diluted by groundwater flow. In this regard, the vegetation along Peter and Paul Gully does not show signs of stress.

Does it look or not?

3.3 A water-balance and evaluation of all sources/inputs, storage and output/releases.

The new cell has been designed to accept leachate from the old landfill once the first waste lift is in place. Construction of an hydraulic connection between the old landfill and the new cell allows leachate to be drained from the former, which is unlined, into the new cell which is lined and includes leachate management infrastructure. This arrangement clearly reduces the risk posed to the environment from leachate that might escape from the old unlined landfill.

Leachate from the new cell will be recirculated through the waste/pile to enable operation of the site as a bioreactor. While creating a greatly improved leachate management capability for site, connecting the old landfill to the proposed new cell makes traditional water balance modeling for the new cell impractical as there will be no basis for establishing input parameters for the landfill contribution to the water balance.

new or old?

Council are currently managing leachate in the old landfill by recirculation and disposal to sewer when required. The new lined cell and the installation of leachate management infrastructure will greatly reduce environmental risk.

When is that release to Mary?

- 3.4 A full hydrogeological risk assessment that considers the whole life cycle of the land filling operations against the site specific landfill design and includes the potential risk of barrier failure; to include a copy of the groundwater risk assessment that was required by condition 2E24 of Integrated Authority OM0309 dated 11/02/05.

The new cell will be constructed adjacent to an existing unlined landfill. The design for the new cell incorporates engineered barriers and groundwater depressurization systems, which are not present in the existing landfill. The design proposed will greatly improve the performance of the adjoining unlined landfill. The improvements in leachate management and protection of the landfill liner from groundwater offered by the proposed design means that construction of the new works will substantially lower the environmental risk posed by the old landfill in its present state. A full discussion of the proposed design is included in Section 4 (Landfill Design).

3.5 Modelling of hydrogeological risks in association with liner design.

Calculations based on the permeability specification for the liner materials indicates that it would take water over 20 years to cross the base of the landfill. It would presumably take any charged contaminants (e.g. solubilised metals) even longer to cross the base as the clay in the liner would offer numerous charges sites to which the contaminants would bind. As the permeability specifications are derived from measurements made with a specified hydraulic head, the flow rate through the liner materials will be lower if the hydraulic head is lower than specified. Standard operating procedures will require recirculation of leachate, thereby ensuring that there is minimal hydraulic head on the liner. Accordingly, any flow across the liner is expected to be extremely small.

As detailed below and in Section 7 (General), all available data, including data acquired during one of the wettest periods on record, indicate that the base of the landfill is well above the highest expected groundwater level. Accordingly, the risk that the landfill liner will be impacted from a rise in the water table is so low that it renders modeling impractical.

- 3.6 Consideration of current/recent groundwater levels and their assessment against proposed cell floor level; adequacy of underdrainage system to reduce hydrostatic pressure on the liner.

Council routinely monitors groundwater levels and water quality at the Bonnick Road Landfill site. (Figure 3 (Appendix D)) below presents groundwater levels in comparison with the Cumulative Rainfall Deficit (CRD). The CRD is a measure of the departure of monthly rainfall from historical averages. A declining slope indicates a period of below average rainfall, while a rising slope indicates above average falls.

The CRD in Figure 3 (Appendix D) shows a generally declining trend and below average rainfall over 2009 and 2010. During the summer wet season of 2010/2011, however, a significant period of above average rainfall was recorded, resulting in a sharp rise in the CRD. Groundwater levels recorded during this period correlate with the CRD and therefore rose over the summer 2010/2011 wet season. The magnitude of the rise, however, was generally less than 1 m. This observation is attributed to the fact that the period preceding the flood, when groundwater levels were recorded, was also very wet. The water levels after the summer 2010/2011 wet season are similar to those measured in 2009/2010, when the landfill extension was designed.

Groundwater level data were also recorded from two monitoring bores established within the boundary of the proposed landfill extension to assess groundwater levels for design of the groundwater depressurization system. The highest levels recorded in these bores, which include data from a high rainfall period during June 2010, were RL 61.1 m and RL 61.58 m.

The recent flooding event produced flood levels lower than the recorded Q100 flood levels for this site. The proposed groundwater cut off system has been designed for a worst-case groundwater rise scenario, where groundwater is at the existing surface level. The cut off system controls groundwater and disperses any groundwater which might try to rise above the cut off drain in a worst case event. The lowest point of this system (RL 61.9 m - the groundwater outlet) is slightly higher than the predicted Q100 flood level for the site (RL 61.85). The historical groundwater level data do not indicate any significant changes in subsurface conditions that would require reconsideration of the current design of the landfill extension.

4 LANDFILL DESIGN

Concern

The application does not include the necessary detail required on the landfill design, infrastructure and environmental management and control.

Information required

- Site specific details on whole life landfill design to include;

4.1 QA procedures applied during design process, concepts underpinning each design element, calculations and factors of safety.

The design has been prepared by Bellas & Reitano Pty Ltd who have in place a quality assurance system that conforms to the requirements of ISO 9001:2000.

The primary geosynthetic clay liner (GCL) liner will be supplied by a manufacturer with a third party approved QA system.

Council's contract for the supply of the GCL liner will include a requirement for the supplier to have a QA system in place.

4.2 Site stability; containment engineering; liner construction; containment liner system plans and details; drainage and depressurisation construction details; predicted liner performance and degradation; leachate attenuation (depth and attenuation/retardation properties of any unsaturated zone).

The material on which the proposed cell will be built grades from fractured bedrock in the west, through to weathered bedrock to sandy clay in the east. The site does not appear to have been impacted by mining activities and does not have a history of slip or subsidence. It is therefore considered suitable for the proposed development.

4.3 Containment Engineering

Waste will be contained in the new cell by three engineered layers. These include a prepared base, a groundwater depressurisation system and a liner system. The cell will be surrounded by a clay bund. Each containment measure is described in the following sections.

4.4 Liner System, Construction and Predicted Performance

A schematic of the liner system is contained in Appendix F. It consists of a prepared base of 600 mm of low permeability clay, the GCL, which is equivalent to 600 mm of clay (10^{-9} ms^{-1}) and a 300 mm confining layer. The low permeability clay base will act as an unsaturated zone. The material will be specified as a sandy clay with a permeability no greater than 10^{-9} ms^{-1} . The liner system therefore provides an effective low-permeability barrier with an equivalent separation of 1.5 m between the waste and the environment.

Prediction of leachate attenuation would require a thorough understanding of the physical and chemical constituents of the leachate and all materials in the liner and sub grade. This would be a disproportionately expensive investigation that would not yield predictions of any certainty as the leachate and construction materials are highly heterogeneous substances. In any event, the engineered barriers that have been designed to prevent the escape of leachate are of considerably higher performance than those used in most landfills in the state of Queensland and the design is effectively a double-liner system. Should leachate reach the groundwater depressurisation system, it will be detected at the groundwater manhole and the contaminated groundwater returned to the landfill while the matter is investigated and resolved.

Council cannot provide details of the liner to be used as a tender will be let for supply of the GCL. The basic GCL specification will require a material with an hydraulic conductivity equivalent to 600 mm of clay, typically a Bentofix X1000 or similar. The liner will be installed in accordance with the manufacturer's specification on a prepared base.

4.5 Stormwater Drainage System

Clean stormwater is diverted around the new cell via a combination of piped and swale drains with scour protection. Contaminated stormwater from the new cell is directed to the sediment pond located on the southern side of the new cell for treatment prior to release. Any water that contacts waste is considered to be leachate and is handled in

the leachate management system (refer Section 4.11). The external drainage system is shown on Figure 1 (Appendix D).

4.6 Groundwater Depressurisation System

The groundwater depressurisation system has been designed by a hydrogeologist to minimise the likelihood of positive pressures acting on the liner during landfill construction and also during the early stages of filling.

The system consists of 200 mm Megaflow drain pipes on 20 m centres aligned at right angles to the contour of the cell base. These drains feed a 300 mm Megaflow header drain set in a gravel trench that runs parallel to but outside the landfill termination bund. The header drain falls to a groundwater outlet, which is also located outside the termination bund at the southeast corner of the cell. The outlet will drain to a manhole located at the southeast corner of the sedimentation pond. It will be constructed so as to permit sampling of the groundwater. If there is reason to suspect that leachate has entered the groundwater, the groundwater will be re-circulated through the waste pile until the matter is investigated and resolved. Locating the header drain outside the terminating bund will make it possible to expose the drain and sample groundwater draining from different feeder drains. This will make it possible to identify an approximate location at which the groundwater is being contaminated, which will facilitate remedial action. This means that the groundwater depressurisation system effectively acts as a leak detection system for the life of the landfill.

Once the liner system (refer Section 4.4) has been placed on top of the depressurisation system, the potential for liner uplift is virtually eliminated. When the landfill cell is filled with the first waste lift up to the top of the terminating bund wall there is no longer any possibility of liner uplift.

4.7 Base sub grade type, depths, strength and compressibility.

The base sub grade preparation will involve the construction of an engineered fill layer or re-compaction of natural materials (where geotechnical properties are suitable) over the fractured bed rock strata. The groundwater depressurisation system will be

constructed on this prepared base. The engineered sub grade will vary in depth from 600 mm to 1 m and will grade through weathered rock to a low permeability sandy clay on the eastern boundary of the new cell. The prepared base will fully underlie the new cell.

4.8 Slope stability calculations and factors of safety

There is significant cost involved in engaging an appropriately qualified person/organization to prepare a slope stability report. Council is not prepared to incur this cost until the landfill design is approved.

4.9 How the landfill extension will key in with the existing landfill site liner.

The existing landfill is unlined. During construction of the new cell, a clay bund will be left in place between the old landfill (to the north) and the new cell. This bund currently directs leachate from the old landfill to the existing leachate collection system for recirculation or appropriate disposal as required.

Once the new cell has been filled to the top of the separating bund wall (Figure 4, Appendix D), it will be removed and leachate from the old landfill will flow into the leachate collection system constructed in the new cell. The new cell has been designed to be lower than the toe of the old landfill so that there will always be positive hydraulic head driving leachate from the old landfill into the new cell.

4.10 Intermediate and final capping proposals.

It is assumed that the conditions attached to the Development Approval will require the use of intermediate and final capping. It is anticipated that intermediate cover will consist of 300 mm of soil and final capping will consist of 600 mm of low permeability ($\leq 10^{-8} \text{ ms}^{-1}$) clay.

Phylo capping?
offen capping?

4.11 Leachate management - the application is lacking in plans and detail of leachate management infrastructure including whole of site drainage lines, basal and side slope falls for leachate management system; sump/blanket/pipe collection systems, storage, pump lines and use/disposal; predicted leachate quality and quantities and design life; description, incorporation and adequacy of the existing leachate system that utilises the existing 1950 stormwater drain; leachate circulation management and procedures; back up leachate management procedures:

The layout of the leachate collection system is shown on Figure 1 (Appendix D). A typical cross section of leachate drainage infrastructure is shown on the landfill liner schematic contained in Appendix F. The system consists of a 300 mm thick gravel (min/max 20/40 mm) blanket with a permeability of not less than 10^{-2} ms^{-1} . Perforated pipes (120 mm ID) run the length of the southern and eastern bunds, collecting leachate flowing out of the gravel blanket. The upslope end of the eastern pipe connects into the leachate pipe in the old landfill. Both pipes will be terminated in a leachate collection sump in the southern corner of the new cell (Figure 1, Appendix D).

The gravel blanket is contained between two layers of geotextile. The upper geotextile acts as a filter, minimizing the potential for solids to block the leachate collection system or damage leachate pumping infrastructure. The lower geotextile will prevent fines from the underlying confining layer entering and blocking the leachate collection system (Appendix F).

An automatic level- controlled electric pump will be installed in the leachate sump. The leachate will be recirculated through the old landfill and the new cell (when there is sufficient waste placed in the new cell to allow this). Recirculation of the leachate through the waste pile will ensure that it does not build up to any significant depth on the liner system. This minimizes the hydraulic head on the liner that acts to force fluid through the liner. Pipework will be installed that enables the pump to discharge leachate to the sewage pump station located in the south western corner of the site. Discharge to sewer will only occur in emergency situations. In the event of pump or power failure council will replace the pump or provide a back-up generator as required.

The Bonnick Rd landfill is operated 7 days per week. Current operating procedures require leachate levels to be checked daily and the leachate pump to be checked and

operated daily. The existing leachate pump station is located on the end of the existing 1950 mm diameter stormwater pipe and has functioned satisfactorily for many years.

Gympie Regional Council has been re-circulating leachate from the existing pump station into the old landfill for many years with good results.

5 NOISE

Concern

The noise assessment submitted as part of the application (conducted by Air Noise Environment Pty and dated June 2010) for both the landfill and transfer station (TS) operations reports that there will be an exceedance in the noise criteria during regular (daily) activities and in both phases of the sites operations (as described). The assessment also reports that there will also be an exceedance in noise criteria arising from irregular activities (chipping/crushing/scrap metal collection). Finally, while the assessment also describes possible mitigation methods on and off site, it then concludes with a prediction that exceedances for each modelling scenario will still arise.

Information required

5.1 *Given Councils own assessment report identifies expected exceedance in the noise criteria at a number of the receptor groups used what plans and action will Council take to ensure noise nuisance is not caused as a result of the site activities.*

In order to minimize the potential for causing nuisance noise, Council will undertake the following:

- i. Cease green waste processing at Bonnick Road Landfill
- ii. Concrete crushing will not commence at Bonnick Road Landfill
- iii. Schedule scrap metal collection for weekdays and busier periods of the day (council has made this change to operations)
- iv. Maintain plant and equipment to manufacturer's specifications
- v. Progressively replace standard reversing beepers with broadband warning alarms (replacement has been ongoing for approximately 8 months).
- vi. Modify the transfer station design so that the side wall enclosure is extended around the undercover truck loading area from the ground to the roof, as specified in the ANE (August 2011) acoustic assessment

vii. Construct of a 3.0 m acoustic barrier at the top of the embankment proposed for the northern and eastern side of the metals recycling areas, as specified in the ANE (August 2011) acoustic assessment

viii. Restrict metal recycling activities to the area at the base of the proposed embankment at the north east portion of the site

ix. Consider the use of hard fill waste for noise barriers at noisy locations on site

x. Consider restricting the development of some or all of the currently vacant land immediately to the north of the site to light industrial/commercial to benefit from the noise barrier effect of industrial buildings

xi. Consider applying development approval conditions specifying noise attenuation requirements for building materials used in the construction of any residential dwellings built on the currently vacant land immediately to the north of the site

5.2 *Explanation as to the selection criteria for noise background and monitoring locations used in the assessment and the omission of other nearest placed sensitive receptors.*

The primary criterion for establishing background noise monitoring locations was that the locations had to be unaffected by noise from existing operations at the Bonnick Road landfill. As the nearest sensitive receptors were affected by these operations, they could not be used for background noise measurement purposes. ANE consider that the locations used for establishment of background noise levels are well shielded from the any acoustic impacts from the Bonnick Road site. It is therefore considered that the background noise data are representative of the local acoustic environment.

5.3 *The assessment assumes that that the proposed TS is enclosed with the exception of small access ways for vehicles and ventilation openings along the ridge line, please confirm this remains the selected build design ..*

The previously proposed arrangement for openings in the transfer station structure remains unchanged.

- 5.4 An explanation and reasons for the decision not to reduce noise levels by the use of an enclosed roof structure on the eastern recycling area or fully enclosing TS operations ahead of/in addition to the potential off-site mitigation measures described (to include a cost benefit analysis where applicable)

ANE consider that enclosing the openings in the roof structure will not provide significant improvement as noise break out from the transfer station doorways dominates the acoustic impacts. From an operational perspective, it is not considered practical to enclose the doorways.

Fully enclosing the transfer station involves the construction of a shell around the transfer station from materials with suitable noise attenuating properties. Council are of the opinion that this option is not financially viable.

- 5.5 Section 5.5 Extension of Industrial Development describes "Figure 16 as an indication of the potential area that could be incorporated into future industrial development"; this figure has not been supplied for consideration.

This is included as Figure 15 in the most recent acoustic assessment (ANE, August 2011; Refer Appendix G).

- 5.6 In order for local environmental values to be enhanced or protected, show how the management hierarchy for an activity involving noise has been applied, and indicate whether background creep for the site will be controlled to the standard outlined in the Environmental Protection (Noise) Policy 2008.

The noise management hierarchy has been considered in the ANE report. Nuisance noise from green waste processing will be avoided by discontinuing shredding activities at the Bonnick Road site when alternatives have been successfully trialed. Noise from concrete crushing will not be an issue of concern as Council has decided that this activity will not be undertaken at the Bonnick Road site.

A number of options for minimization of nuisance noise have been provided (see above) such as appropriate maintenance of plant and equipment and physical modifications of the proposed structures.

Management options, including the timing of certain operations such as metal recycling and the application of controls on the development of adjacent land have also been identified.

Noise modeling has been undertaken for the two relevant scenarios (i.e. landfill and minimal transfer station operation and full scale transfer station operation with no landfill operation). The noise criteria for the area have been established using the method described in the DERM's Planning for Noise Control Guideline (July 2004) and these criteria have been applied for both regular and irregular operations. It is predicted that with mitigation, the noise criteria will be exceeded at various locations under various operational scenarios. The scenario with the least noise impact is full scale operation of the transfer station, which is predicted to exceed the noise criteria for only one receptor group (Wide Bay Institute of TAFE).

What do we do about noise?

6 RECEIVING WASTE

5. How will each specific waste stream be dealt with at the transfer station, include detail about how each type of waste will be managed to ensure environmental pollution is not caused, to include details of: container construction/size; storage location and ground surfaces/permeability; maximum storage quantities, management of any quarantine area for unacceptable wastes.

Standard operating procedures at the landfill include a list of waste acceptance criteria which gate house staff apply when assessing loads that arrive at the site. Signage will be posted at the landfill entrance detailing the criteria for customers. All vehicles entering the site will be stopped at the gate house to enable the gate house attendant to view the load and assess the nature and quantity of the transported waste. If the load contains any materials not accepted at the landfill, the entire load will be quarantined for detailed inspection. Where doubt exists regarding acceptance, staff will have access to suitably qualified persons who can assist with determining the fate of the load. A quarantine area for questionable loads will be included in the design of waste transfer station.

If the load is considered acceptable for disposal, the customer will then receive safety and waste disposal instructions. The facility will have drop-off points for waste oil and household hazardous waste. These areas will be purpose built and will include bunding and roofing to capture spills and exclude incident rainfall. There will also be recycling opportunities for cardboard and reusable items.

The waste transfer station will utilize 30 m3 roll-on roll-off bins for temporary storage of solid wastes. The bins will be held under cover to prevent the capture of incident rainfall and subsequent production of leachate. With the exception of scrap steel storage, all bin operations and waste handling operations will be undertaken on a concrete pad with appropriate stormwater capture, treatment and disposal infrastructure.

The scrap steel pile will be located outside the transfer station on a bunded, compacted road-base pad, which will be graded to fall to small settling pond. Any oil

spills will be adsorbed by the road base, which will be removed for disposal and replaced with clean material.

6. Detail how records will be kept about the receipt of waste, what details are kept by Councils Records system altogether; Waste Type/code, qty, producer, haulier, tonnage or volume.

A weighbridge will be installed at the facility. Weighbridge monitoring equipment utilizing appropriate software will enable Council to record relevant waste data and prepare the necessary statistical analyses to support waste management operations and decision making. The data to be acquired will include the following:

- Total number of vehicles by category
- Total tonnage of waste by category
- Total tonnage of recyclables by category
- Total tonnage of waste received

7. While a description has been given, there is insufficient detail provided on the site's emergency response plan, particularly in response to flooding and fire. Provide detail on the procedures and management of emergency incidents, during operational and non operational hours, to include: reporting and notification; staff training, site manning equipment and structure.

Foreseeable hazards

The foreseeable hazards at this site that may require an emergency response are limited to fire and explosion. There is no applicable emergency response for flooding.

Fire

Bush Fire

The potential for bush fire at this site is minimal as there is little vegetation in close proximity to the working area. Firebreaks will be constructed as required in the event that the area of site operations becomes susceptible to bush fire.

Vandalism

Most fires at landfills are deliberately lit by unauthorised persons. Unauthorised access has been minimised by construction of perimeter fencing in accessible areas and the use of a lockable gate at the entrance to the facility.

No green waste is permitted on site, thereby eliminating it as a fuel source.

Incompatible Wastes

Fires at landfills can also result from contact between incompatible wastes. Ignition usually occurs in the waste transport vehicle en route to the disposal site. Any vehicles arriving with burning loads will be directed away from the tipping face to a part of the landfill where the vehicle can quickly discharge its load and where there will be good access for emergency services vehicles, if required. A hot load tipping area will be identified for such an emergency.

Landfill Gas

Landfill gas is another potential fire hazard. Council intends to install passive gas vents in the old landfill and will install similar vents in the new cell when the waste reaches appropriate levels. Each vent will terminate in a biofilter and the condition of the biofilter will be monitored daily by council.

Standard operating procedures require staff to contact emergency services in the event that a fire cannot be rapidly controlled or extinguished with immediately available resources.

Explosion

The main cause of explosions at landfills is the ignition of landfill gas that has migrated to a confined space. As there are no built structures on the filled area of the site, the potential for landfill gas to accumulate in confined spaces is minimal. At the beginning of the day, slots will be cut in the cover material laid down the previous day to enhance

the passive venting of gas from the working face of the landfill and to provide a low resistance pathway for gas to migrate through sequential waste lifts until it reaches the passive gas vents (as they are completed).

Standard operating procedures require staff to contact emergency services in the event of an explosion.

7 GENERAL

8. The application indicates that council is re-tendering for the detailed design of the transfer station building based on the plans that have been included, please confirm the status and currency of submitted plans.

Council has not tendered for the detailed design of the transfer station to date, as approval from DERM is required prior to spending further funds. It should be noted that detailed design will be based on the concept plan developed by GHD.

9. The application includes detail of the construction of a bund around the downstream side of the landfill and accepts that the site falls within the 1 in 100 year flood level. Provide evidence of a risk assessment that suitably demonstrates that the design has reasonably considered consequences and impacts of a flood event on the environmental impact and releases from the site, to include: the impact of raised ground water levels on sub surface drainage; landfill basal and side liner integrity, leachate management infrastructure and management; continued site operations during events and general landfill stability. An impact and status report summarising the environmental impact of the recent flooding events will assist in reviewing potential/actual impact for the landfill extension.

The groundwater depressurization system was purposefully designed on the basis of groundwater-level data acquired during a period of high rainfall (June 2010). Records of groundwater level at this time acquired from the two bores constructed within the footprint of the proposed new cell were RL 61.1 m and RL 61.58 m. The groundwater capture pipework at the outlet of the groundwater depressurization system is located at RL 61.9 m.

The four permanent monitoring bores located on the site have risen 400 mm on average since the June 2010 monitoring event. The data from these bores include records acquired on 02 February 2011, just after the largest flood event in the State's history. The design of the groundwater depressurization system will easily cope with a

rise of 400 mm in groundwater level under the proposed new cell. The liner system will therefore be protected from groundwater during large flood events.

The top of the leachate sump/pump well will be 3.65 m above the Q100 flood level making it highly unlikely that flood water could enter the leachate collection system via this path. The leachate drainage network is above the liner system and is therefore well protected from any foreseeable rise in groundwater levels. It is therefore expected that leachate would not be released from the leachate collection system during a Q100 flood event.

The new landfill cell is surrounded by a bund wall (Figure 1, Appendix D), which has been designed to provide approximately 2.65 m freeboard at the lowest point during a Q100 flood event (Figure 4, Appendix D). The landfill will rise above this level, effectively preventing flood water from entering the waste pile.

The waste pile and the liner system are located above the Q100 flood level. The base sub grade, the lower part of the landfill bund and the lower part of the bund surrounding the sedimentation pond are below the Q100 flood level. Any flooding would be due to Mary River back water. As this would not be fast flowing, bund failure due to scouring would be highly unlikely.

When council commissions the slope stability analysis it will consider the potential impact of a rapid draw down event that might occur after a flood. It is unlikely, however, that the bund walls would be affected by saturation as they will be constructed from low permeability clay (10^{-9} ms⁻¹) and compacted at 2% wet of optimum moisture content and kept moist by vegetation cover.

10. The site plan provided must show all the following potential receptors (in metres) present in the general location from the site in northern, eastern, southern and western directions:

- Domestic dwellings (human occupation in bands: closer than 50 metres, between 50 and 250 metres and 250 to 500 metres);
- Child care centres, schools and colleges;
- Offices, industrial units and commercial premises;

- Sensitive habitats and environmental areas;
- Public footpaths;
- Highways and roads;
- Open spaces;
- Parks;
- Allotments;
- Farmland;
- Other public access areas;

The plan showing the potential receptors is contained in Appendix H.

8 AIR

11. Details of dust, odour and litter management and mitigation have been provided however there is no information to show how the management hierarchy for the waste disposal facility in relation to air emissions has been applied, as outlined in the Environmental Protection (Air) Policy 2008, in order for local environmental values to be enhanced or protected.

The impacts to air from a landfill operation consist of nuisance dust, odour and wind-blown litter. The management hierarchy for air emissions detailed in Section 9 of the Environmental Protection (Air) Policy identifies the preferred order for dealing these emissions. The hierarchy from most preferred to least preferred is: Avoid, Recycle, Minimize and Manage.

In the context of a landfilling operation, it is impractical to either avoid or recycle dust, odour or wind-blown litter. This leaves minimization and management as the only options remaining for the protection or enhancement of Environmental Values. As noted in point 11 (above) minimisation and management actions relevant to the landfilling operation were provided in the original Development Application.

12. The application identifies that gas concentrations are expected to exceed the odour detection threshold for all compounds reviewed and that odours are likely to be detectable. A description of the operational practices that will be used to minimise odours has been provided however, site specific information, detail and modeling must be provided to demonstrate the risk of odour nuisance to a nuisance sensitive place is reduced to an acceptable level from:
 - Area sources (transportation, stockpiling of waste, landfill gas diffusing through final or intermediate capped refuse, odorous emission from active tipping area under daily cover, open working face, transfer station) .

As above want
- passive venting proposed.

An air quality assessment was completed by Air Noise Environment Pty Ltd (ANE) in July 2011. A copy of the report is contained in Appendix I. Air quality modeling predicts that compliance with the air quality objectives contained in the Environmental Protection (Air) Policy (2008) will be achieved during phase 1 of the project (landfill operation and minimal transfer station operation) for odour, benzene and vinyl chloride.

During Stage 2 of the project, which involves full scale operation of the transfer station and no landfilling operations, non-compliance with odour criteria is predicted for a small area within the undeveloped rural land immediately to the north of the site. The extent of the predicted non-compliance is considered relatively minor (2.9 ou vs air quality objective of 2.5 ou).

Council will consider restricting development of this land for uses that are not sensitive to the type of odour emissions expected from the transfer station operations.

13. Given the application identifies that the production of benzene and vinyl chloride is expected to exceed the air quality objectives at 2020 peak production rates (with consideration of the accepted limitation/difficulties of such modelling), further site specific dispersion modelling data is required to demonstrate the Qld Air Quality Objectives criteria are not exceeded;

As noted above, the air quality assessment completed by ANE (July 2011) predicts that the concentrations of benzene and vinyl chloride at the nearest sensitive receptors will be in compliance with the relevant air quality objectives (refer Appendix I).

14. The application identifies a peak methane concentration of between 200-300m3/hr around 2020, please provide details of the sites Landfill Gas Management Strategy and Plan to include a risk assessment that demonstrates how that this level of exceedance can be adequately managed via a gas monitoring regime and operational procedures and not by lower risk proactive landfill gas management methods.

The strategy for managing landfill gas is to facilitate its passive movement from the waste pile to the atmosphere.

As well as?

Council plans to install passive gas vents and biofilters in the old landfill in the medium term and will install similar vents in the new cell when the waste reaches appropriate levels.

15. Please confirm proposals, arrangements and details for any "shredding, crushing, grinding" activities that may be conducted at the site and the applicability, or not, of ERA 33 - Crushing, milling, grinding or screening.

Council can confirm that there are no plans in the foreseeable future to undertake green waste or concrete processing on site or to undertake any other activity that would require licensing as ERA 33. In the event that it becomes necessary to undertake such an activity on the site, Council will proceed with the matter in accordance with relevant statute.

9 WATER

16. What likely contaminants (and in what concentrations) are to be expected in the stormwater runoffs from the transfer station and landfill area to the containment basin and sediment pond respectively.

It is expected that nutrients and sediment will form the bulk of the contaminants contained in runoff from unstabilised areas. Quantitation of the physical parameters and contaminants cannot be determined at this stage.

17. Stormwater generated on un-stabilised areas (areas with no vegetation cover to bind/cover the waste) will be diverted into a sedimentation pond to the south west of the landfill extension prior to being discharged to a creek below the site. Information must be provided on the levels of physical parameters and contaminants expected and any treatment and monitoring processes that will be undertaken.

It is expected that nutrients and sediment will form the bulk of the contaminants contained in runoff from unstabilised areas. Quantitation of the physical parameters and contaminants cannot be determined at this stage.

Primary treatment will take place in a sedimentation pond. The design volume is 6000 m³. This exceeds the required volume calculated using the guidance contained in the DERM publication Landfill Siting, Design, Operation & Rehabilitation Waste Disposal Guide for ERA75, Version 1.1. The pond will accommodate the continuous peak flow for a 1 in 10 year 24 hour rainfall event (runoff coefficient of 0.7 as recommended in the Queensland Urban Drainage Manual). Runoff capture in the pond will be monitored in accordance with the conditions attached to the Development Approval.

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

MBH2011/1610

MBH 743-8

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

① MK
② JH
③ ?

Our Ref: 2-9-01-0002 MG:CMK01045
Your Ref:

14th September 2011

Department of Environment & Resource Management
PO Box 101
MARYBOROUGH QLD 4650

Attention: Mr Tim Brain
Chief Executive

Dear Sir

**RE: Response to DERM information request (221737) :-
Redevelopment of the Bonnick Rd Waste Management
Facility Lot 542 MCH 801883**

I refer to the above information request dated 27 January 2011 (extended expiry date 27 September 2011) and confirm that Council's response to this request is attached for your assessment. I confirm that there are 2 attachments to this response as follows:-

- 1) the response to DERM questions, and
- 2) Appendices a) to i).

Council's consultants have requested a meeting with DERM to discuss the attached response, please call Council's Mr Michael Grant on 54810611 to arrange a suitable date and time.

Yours faithfully
CTPI 49-Sch4-Signature

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER

RECEIVED

16 SEP 2011

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

Cc Gympie Regional Council Planning and Development Directorate

Karle Matt

From: Michael Grant [Michael.Grant@gympie.qld.gov.au]
Sent: Friday, 16 December 2011 11:16 AM
To: Karle Matt
Cc: Ian Wolff
Subject: Re: Bonnick Road

Matt,
 it seems that progressing the landfill will most likely be in the new year and therefor Council will continue with both the landfill extension and the transfer station. I will arrange for relevant information to be forwarded to you when available.
 Merry Christmas and a happy new year to you and the DERM office.
 Thanks

Michael Grant
 Director of Community Services
 Gympie Regional Council
 (07) 5481 0611

>>> "Karl Matt" <Matt.Karle@derm.qld.gov.au> 16/12/2011 6:52 AM >>>

Hi Michael,

I've received your phone message. Apologies for being difficult to track down. 73(2)Irrelevant
 73(2)Irrelevant and days when I am in the office I seem to be out in the field.

I did receive the extension by agreement, and acknowledged that email with a reply to Christine Kennedy.

DERM awaits further discussion and information from GRC at your convenience.

Have a Merry Christmas if I don't speak to you before hand.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Oakley Richard
Sent: Friday, 16 December 2011 3:23 PM
To: Karle Matt
Subject: RE: Conditions of approval.doc
Attachments: Draft ERA 60 LFGN 3 Using geosynthetic clay liners in landfill engineering.doc

Hey Matt

73(2)Irrelevant

Have called and left a message, hope the comments/suggestions are of use.

Re GCL stuff I have attached some guidance that I hope will make it into being part of the ERA 60 guide if I get my way its re geomembrane and GCL's, if you have the time welcome to a read it may be useful info

If I can help at all just give me a shout, I am happy to help where I can (It's the one part of the job that can be rewarding !)

Take care have a safe and great Christmas

regards

Richard Oakley

Strategic Compliance

Environmental Performance and Coordination

Environment and Natural Resource Regulation, DERM

Telephone: CTPI 49-Sch4-Mc

Facsimile: 07 3381 7560

email richard.oakley@derm.qld.gov.au

www.derm.qld.gov.au

From: Karle Matt
Sent: Friday, 16 December 2011 2:33 PM
To: Oakley Richard
Subject: RE: Conditions of approval.doc

Rich,

Thanks for the comments. I have been a bit slow getting to a few things since being required to 73(2)Irrelevant leading up to Christmas.

Council are working on noise mitigation for the transfer station seeing as we proposed to refuse the transfer station, and hence the decision date has been extended at councils request through to 31st January 2012, and possibly longer pending consultant reply.

I have had a read through your comments. I have not had experience with a GCL, and hence misinterpreted their wording in the application. I have now learned a lot more about a GCL, and note that despite the significantly thinner profile, its performance is far superior to a normal clay liner. I will need to rework the thickness or wording of that condition accordingly.

I will review your other comments and duly note or try to accommodate.

Council currently has a copy of the draft, and are yet to comment also. That will be the time to incorporate any further changes I glean from your comments.

If I don't speak to you beforehand, have a Merry Christmas and new year. I really appreciate your comments and assistance for this application.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Oakley Richard

Sent: Thursday, 8 December 2011 12:14 PM

To: Karle Matt

Cc: Ameer Omar

Subject: RE: Conditions of approval.doc

Hi Matt,

Good work, managed to have a flick through and make some comments and suggestions, feel free to accept or reject as you see fit.

Feel we must have some reporting and submission requirements on LFG, GW, Leachate etc , and care with the use of permeability specs of particular note my comments 9-11 as below

"The GCL layer component must have a permeability of less than equal to 1×10^{-9} (equivalent to 600mm of clay with the same permeability) it WILL NOT actually be 600mm thick it is a manufactured synthetic layer probably <10mm thick. While it is manufactured as a layered material it is not put down in layers like clay barriers have to be.

Again it's important that there is some quality control on the materials fabrication and installation, ie a Materials Quality Assurance and a Construction Quality Assurance procedure CQA

My concerns remain around the leachate management and the Bioreactor "investigation" and how we will assess its performance as compliant .

Please call if you need to discuss, happy to expand upon any comments

regards

Richard Oakley

Strategic Compliance

Environmental Performance and Coordination

Environment and Natural Resource Regulation, DERM

Telephone: CTPI 49-Sch4-M

Facsimile: 07 3381 7560

email richard.oakley@derm.qld.gov.au

www.derm.qld.gov.au

From: Karle Matt
Sent: Wednesday, 7 December 2011 1:55 PM
To: Oakley Richard
Subject: Conditions of approval.doc

Hi Richard,

I'm planning to send off a copy of the Draft landfill conditions of approval to Gympie Regional Council this afternoon. Since the copy I emailed to you, I've continued with some changes, and have ensured all condition numbers are correct etc.

Do you have any final comments for me to note before a Draft is sent to the client?

Regards

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Christine Kennedy [Christine.Kennedy@gympie.qld.gov.au]
Sent: Thursday, 17 November 2011 9:40 AM
To: Karle Matt
Cc: Brain Tim (DERM)
Subject: RE: Bonnick Road Redevelopment Application Additional Information
Attachments: 09110-02B.pdf

Dear Matt,

So sorry about the delay.

Please find attached a clearer copy of the map from our original email.

If I can be of any further assistance, please feel free to contact me.

Regards

Christine Kennedy
 Personal Assistant
 Director of Community Services
 Gympie Regional Council
 Community Services Directorate
 Telephone: (07) 5481 0611
 Facsimile: (07) 5481 0801

>>> "Karl Matt" <Matt.Karle@derm.qld.gov.au> 15/11/2011 4:20 PM >>>

Thanks Christine.

Do you know if there is a clearer copy of the image included on page 6 of the document attached to your email? The dimensions and wording on that diagram are not legible.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Christine Kennedy [mailto:Christine.Kennedy@gympie.qld.gov.au]

R

Sent: Tuesday, 15 November 2011 3:07 PM
To: Karle Matt; Brain Tim (DERM)
Subject: Bonnick Road Redevelopment Application Additional Information

With Regards

Christine Kennedy

Personal Assistant

Director of Community Services

Gympie Regional Council

Community Services Directorate
 Telephone: (07) 5481 0611

Facsimile: (07) 5481 0801

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

+-----+

Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

R

Published on DES Disclosure Log
RTI Act 2009

R

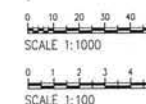


1269A Sandgate Road Nundah
PO Box 140 Nundah QLD 4012
Phone (07) 3861 9566

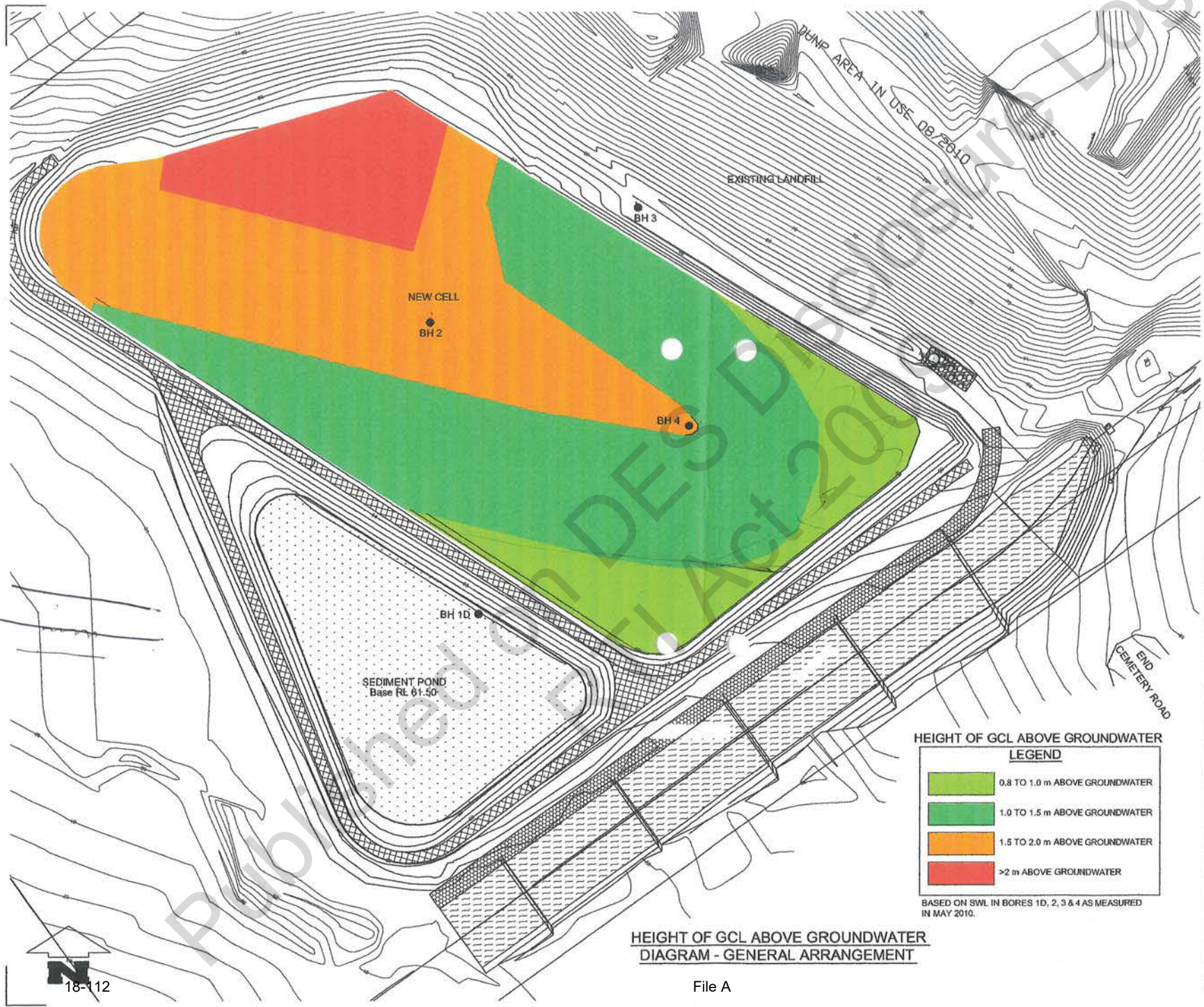
Email brptyltd@bigpond.net.au



SCALES: HOR 1:1000
VER 1:100



E	
D	
C	
B	GENERAL AMENDMENTS
A	ISSUED FOR DISCUSSION
REV	REVISION
CURRENT	GYMPIE REGIONAL COUNCIL
ADDRESS:	
	BONNICK ROAD
	GYMPIE
PROJECT:	
	RE-DESIGN OF NEW LANDFILL CELL
DRAWING TITLE:	
	LONG SECTION THROUGH CENTERLINE OF
	ULTIMATE LANDFILL
SCALE: 1:1000 1:100 EAS	DRAWN: AB
DATE: -	
Original drawing size:	A1
DRG No	09110-02 B



BASED ON SWL IN BORES 1D, 2, 3 & 4 AS MEASURED IN MAY 2010.

**HEIGHT OF GCL ABOVE GROUNDWATER
DIAGRAM - GENERAL ARRANGEMENT**

File A



**BELLAS & REITANO
PTY LTD**
CONSULTING ENGINEERS & PROJECT MANAGERS
1269A Sandgate Road Nundah
PO Box 140 Nundah QLD 4012
Phone (07) 3861 9566
Fax (07) 3861 9577
Email brptytd@bigpond.net.au

300 mm
GCL



DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED FOR REVIEW		DATE	
REVISION		DATE	
CLIENT:	GYMPIE REGIONAL COUNCIL		
ADDRESS:	BONNICK ROAD GYMPIE		
PROJECT:	NEW LANDFILL CELL AND ANCILLARY WORKS		
DRAWING TITLE:	HEIGHT OF GCL ABOVE GROUNDWATER DIAGRAM GENERAL ARRANGEMENT		
SCALE 1:500 EAS		DRAWN: AB	
DATUM:			
Original drawing:			
DRG No.		09110-06 A	

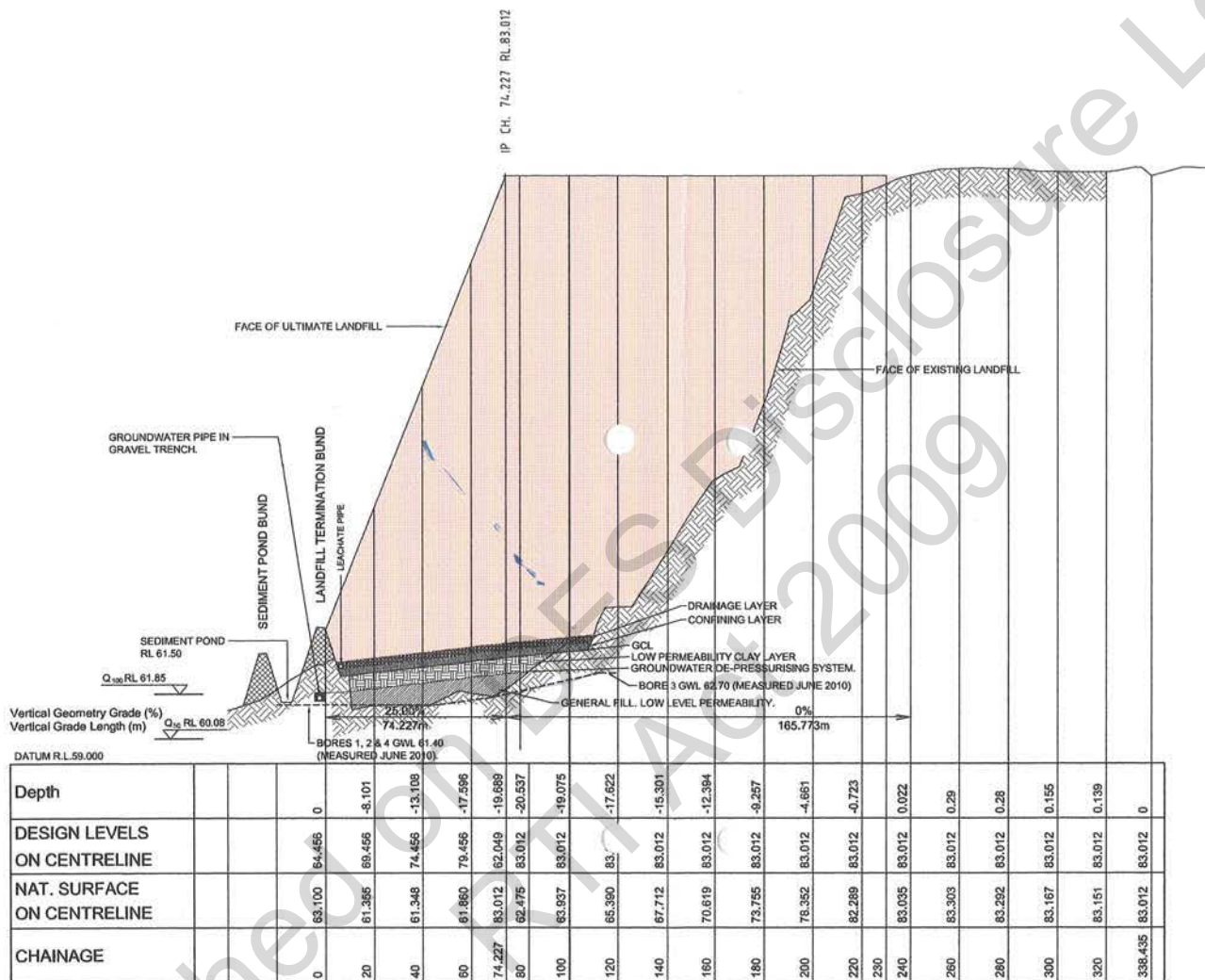




**BELLAS & REITANO
PTY LTD**

CONSULTING ENGINEERS & PROJECT MANAGERS

1269A Sandgate Road Nundah
PO Box 140 Nundah QLD 4012
Phone (07) 3861 9566
Fax (07) 3861 5577
Email brplytd@bigpond.net.au



LONGITUDINAL SECTION A-A (ULTIMATE LANDFILL)

SCALES: HORZ 1:1000
VERT 1:100

0 1 2 3 4 5
SCALE 1:100

0 10 20 30 40 50
SCALE 1:1000

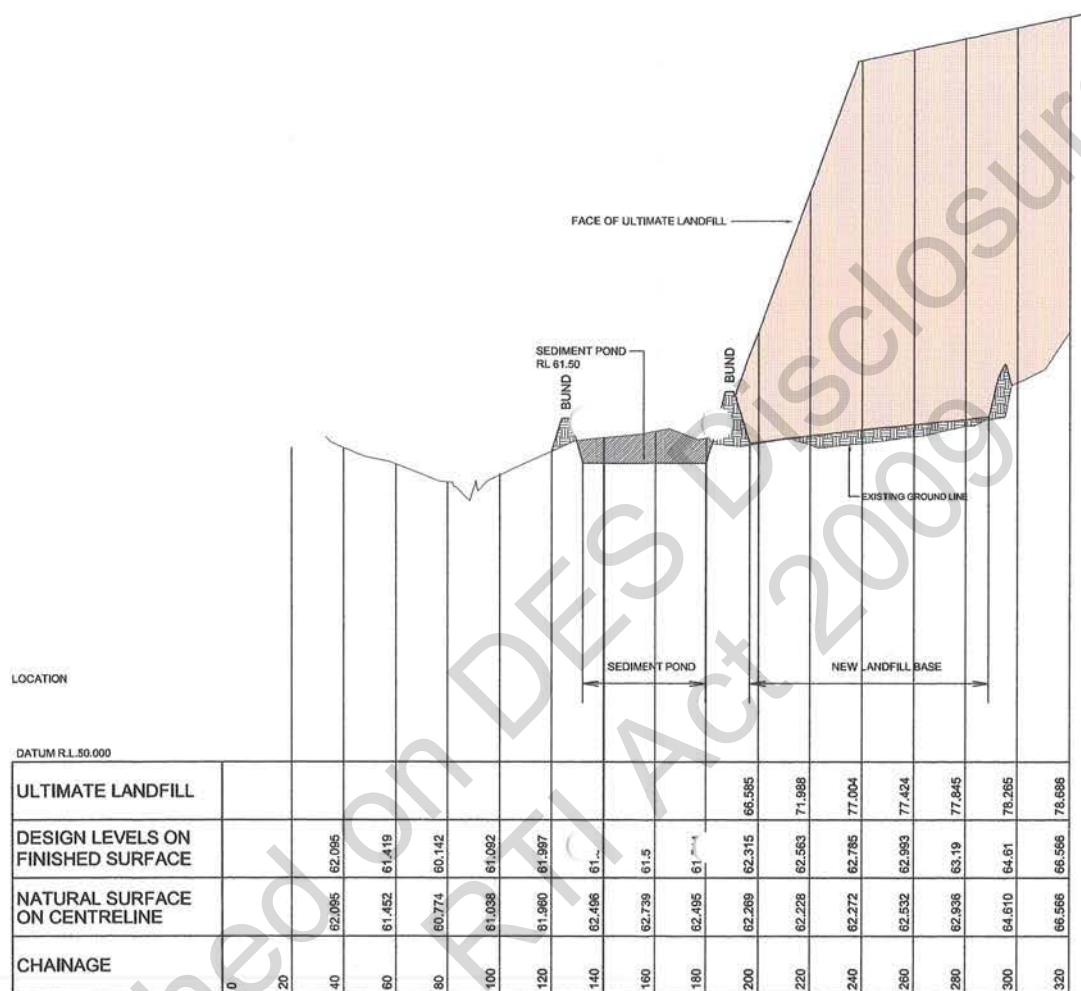
E	
D	
C	
B	
A	
APPROVED FOR REVIEW	30/03/06
NO. REVISION	DATE
CLIENT:	GYMPIE REGIONAL COUNCIL
ADDRESS:	BONNICK ROAD GYMPIE
PROJECT:	NEW LANDFILL CELL AND ANCILLARY WORKS
DRAWING TITLE:	LONG SECTION A-A (ULTIMATE LANDFILL)
SCALE 1:1000 1:100 EAS	DRAWN: AB
DATUM:	-
Original drawing size:	A1
DRG NO	89110-04 A



**BELLAS & REITANO
PTY LTD**

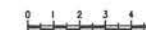
CONSULTING ENGINEERS & PROJECT MANAGERS

1269A Sandgate Road Nundah
PO Box 140 Nundah QLD 4012
Phone (07) 3861 9566
Fax (07) 3861 5577
Email btplytd@bigpond.net.au



LONGITUDINAL SECTION B-B (INCLUDING SEDIMENT POND)

SCALES HOR 1:1000
VER 1:100



SCALE 1:100



SCALE 1:1000

REVISION		
DATE		
ISSUED FOR REVIEW		30.03.00
NO. REVISION		DATE
CLIENT:	GYMPIE REGIONAL COUNCIL	
ADDRESS:	BONNICK ROAD GYMPIE	
PROJECT:	NEW LANDFILL CELL AND ANCILLARY WORKS	
DRAWING TITLE:	LONG SECTION A-A (INCLUDING SEDIMENT POND)	
SCALE 1:1000 1:100 EAS	DRAWN: AB	
DATUM:	-	
Original drawing size:	A1	
DRG NO.	9910-05 A	

Karle Matt

From: Karle Matt
Sent: Wednesday, 18 January 2012 3:02 PM
To: 'Tanya Allen'
Subject: RE: Bonnick Road Waste Management Facility - Response to DERM regarding development conditions

Hi Tanya,

I've received the email.

I will have a brief look this afternoon, but will likely be in the position to discuss the remaining matters at tomorrows meeting.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Tanya Allen [mailto:Tanya.Allen@gympie.qld.gov.au]
Sent: Wednesday, 18 January 2012 2:57 PM
To: Karle Matt
Subject: Bonnick Road Waste Management Facility - Response to DERM regarding development conditions

Dear Matt,

Thank you for the early opportunity to negotiate the conditions for the Bonnick Road landfill extension and transfer station.

Council and its consultants have reviewed the landfill extension and transfer station conditions and request changing a number of the conditions. Please refer to the attached table documenting these changes.

Council's consultants and project manager will be available at tomorrow's meeting to discuss the reasoning behind these requests and to negotiate positive outcomes for DERM, GRC and the Gympie community. Ian Wolff will also phone you this afternoon to confirm your receipt of this email.

See you tomorrow!

Kind Regards

Tanya Allen

Environmental Health Officer | Health & Environmental Services | Community Services
Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
24 Mellor Street, Gympie QLD 4570
PO Box 155 Gympie QLD 4570
e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au

 Please consider the environment before printing this email
1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Tanya Allen [Tanya.Allen@gympie.qld.gov.au]
Sent: Wednesday, 18 January 2012 2:57 PM
To: Karle Matt
Subject: Bonnick Road Waste Management Facility - Response to DERM regarding development conditions
Attachments: Ver.3 - Redevelopment - Landfill Extension and Transfer Stn Conditions - Response to DERM.doc

Dear Matt,

Thank you for the early opportunity to negotiate the conditions for the Bonnick Road landfill extension and transfer station.

Council and its consultants have reviewed the landfill extension and transfer station conditions and request changing a number of the conditions. Please refer to the attached table documenting these changes.

Council's consultants and project manager will be available at tomorrow's meeting to discuss the reasoning behind these requests and to negotiate positive outcomes for DERM, GRC and the Gympie community. Ian Wolff will also phone you this afternoon to confirm your receipt of this email.

See you tomorrow!

Kind Regards

Tanya Allen

Environmental Health Officer | Health & Environmental Services | Community Services

Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
 24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570
 e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au

 Please consider the environment before printing this email
 1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
 3 sheets of A4 paper = 1 litre of water

 This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Christine Kennedy [Christine.Kennedy@gympie.qld.gov.au]
Sent: Thursday, 17 November 2011 9:40 AM
To: Karle Matt
Cc: Brain Tim (DERM)
Subject: RE: Bonnick Road Redevelopment Application Additional Information
Attachments: 09110-02B.pdf

Dear Matt,

So sorry about the delay.

Please find attached a clearer copy of the map from our original email.

If I can be of any further assistance, please feel free to contact me.

Regards

Christine Kennedy
 Personal Assistant
 Director of Community Services
 Gympie Regional Council
 Community Services Directorate
 Telephone: (07) 5481 0611
 Facsimile: (07) 5481 0801

>>> "Karl Matt" <Matt.Karle@derm.qld.gov.au> 15/11/2011 4:20 PM >>>

Thanks Christine.

Do you know if there is a clearer copy of the image included on page 6 of the document attached to your email? The dimensions and wording on that diagram are not legible.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Christine Kennedy [mailto:Christine.Kennedy@gympie.qld.gov.au]

R

Sent: Tuesday, 15 November 2011 3:07 PM
To: Karle Matt; Brain Tim (DERM)
Subject: Bonnick Road Redevelopment Application Additional Information

With Regards

Christine Kennedy

Personal Assistant

Director of Community Services

Gympie Regional Council

Community Services Directorate
Telephone: (07) 5481 0611

Facsimile: (07) 5481 0801

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

+-----+
Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

Published on DES Disclosure Log
RTI Act 2009

Noise reduction coefficient

From Wikipedia, the free encyclopedia

The **noise reduction coefficient** (commonly abbreviated **NRC**) is a scalar representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.

Building materials, especially interior finishes, through standard testing earn ratings of STC (Sound Transmission Class) and NRC based on their sound characteristics. NRC generally applies to a single material such as on the surface of a wall which determines the reverb or liveliness of a room. STC generally applies to the assembly that composes the wall, including framing, insulation, sheet products (gypsum wallboard for example) and a surface material (such as vinyl wallcovering) which limits the amount of sound that travels through the wall assembly into an adjacent space.

NRC (Noise Reduction Coefficient) is an arithmetic value average of sound absorption coefficients at frequencies of 250, 500, 1000 and 2000 Hz indicating a material's ability to absorb sound.

In particular, it is the average of four sound absorption coefficients of the particular surface at frequencies of 125, 250 Hz, 500 Hz, 1000 Hz, 2000, and 4000 Hz. These frequencies encompass the fundamental frequencies and first few overtones of typical human speech, and, therefore, the NRC provides a decent and simple quantification of how well the particular surface will absorb the human voice. A more broad frequency range should be considered for applications such as music or controlling mechanical noise.

Specifications for materials used in sound absorption commonly include an NRC for simplicity, in addition to more detailed frequency vs amplitude charts.

Retrieved from "http://en.wikipedia.org/w/index.php?title=Noise_reduction_coefficient&oldid=431996762"

Categories: Acoustics | Fluid dynamics stubs

- This page was last modified on 1 June 2011 at 13:25.
 - Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. See Terms of use for details.
- Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.

Karle Matt

From: Oakley Richard
Sent: Monday, 19 September 2011 12:03 PM
To: Karle Matt
Cc: Blanchard Scott
Subject: RE: Gympie Regional Council

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request? Yes I certainly did have a hand in the info request, working with Tim and Michelle at the time, I was only wondering what had happened to the site the other day, I had heard rumblings a few months ago the GRC were not happy about some of the IR requirements and was expecting to the need to explain further and justify but it never came. Are they now at the stage they have done the necessary and looking to progress.

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Lucky you, Are you aware of any agreement or procedure for handling of the application now the information request has come in? No agreement or procedure as such to my knowledge, you may wish to raise it with Scott Blanchard all the same.

I would be happy to help if I can /could , the snag may now be that I am currently not in Env Services as I am working on a project (landfill related) for a spell with the Compliance and Investigations team, so my "availability" is limited (or zero) to say the very least if that is what you were enquiring about.

I do fully understand where you may be coming from in terms of the need to perhaps review what has been sent back in response and suggest you start with Scott B and I will wait to hear back before even mentioning it to my current line manager Ralph Riese.

best wishes

Richard Oakley
 Principal Environmental Officer
 Compliance and Investigations
 South East Region
 Department of Environment and Resource Management
Telephone CTPI 49-Sch4-Mob
Facsimile: 07 3381 7560
 email richard.oakley@derm.qld.gov.au
 www.derm.qld.gov.au

From: Karle Matt
Sent: Monday, 19 September 2011 11:39 AM
To: Oakley Richard
Subject: Gympie Regional Council

Hi Richard, Hows things?

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request?

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Are you aware of any agreement or procedure for handling of the application now the information request has come in?

Regards

Matt Karle

A / Manager (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Brain Tim (DERM)
Sent: Wednesday, 19 October 2011 7:11 PM
To: Karle Matt
Subject: RE: Gympie Regional Council

Hi Matt

As discussed, Bonnick Road came up in a conversation with Scott about something else and he recalled that he would like to get Richard involved

Thanks

Tim Brain

Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management
Telephone: (07) 4121 1813
Facsimile: (07) 4121 1650
Email: tim.brain@derm.qld.gov.au

www.derm.qld.gov.au

From: Karle Matt
Sent: Wednesday, 19 October 2011 10:27 AM
To: Brain Tim (DERM)
Subject: RE: Gympie Regional Council

Tim – what has prompted this from you today and from Scott to you yesterday?

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: Brain Tim (DERM)
Sent: Wednesday, 19 October 2011 9:33 AM
To: Karle Matt
Subject: FW: Gympie Regional Council

Hi Matt

Scott is keen to see Richard involved in the assessment of Bonnick Road landfill application but the time he will be able to give to it does not seem clear. Could you please pass on a copy of the information response to Richard and if you are able to point him to particular issues that would be good. It would probably be best if we discussed how we might involve Richard – when you have a chance.
Thanks

R

Tim Brain

Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management
Telephone: (07) 4121 1813
Facsimile: (07) 4121 1650
Email: tim.brain@derm.qld.gov.au

www.derm.qld.gov.au

From: Blanchard Scott
Sent: Tuesday, 18 October 2011 11:12 PM
To: Brain Tim (DERM)
Subject: FW: Gympie Regional Council

Tim

As discussed.

Scott

From: Oakley Richard
Sent: Thursday, 22 September 2011 11:19 AM
To: Karle Matt
Cc: Blanchard Scott; Riese Ralph
Subject: RE: Gympie Regional Council

Hi Matt

as per chat happy to assist where I can and if needed , as agreed the ball is in your court I will leave it with you and the team to commence assessment of the info received and if there is anything that I may be able to help with in terms of interpretation / explanation etc you will let me know and I will discuss with Ralph re work planning arrangements and implications before I take it on.

I am aware there is the response to the Vicky Darling to be prepared but again will leave that with you and the team.

Have a great weekend , take care

Richard Oakley
Principal Environmental Officer
Compliance and Investigations
South East Region
Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-M
Facsimile: 07 3381 7560
email richard.oakley@derm.qld.gov.au
www.derm.qld.gov.au

From: Oakley Richard
Sent: Monday, 19 September 2011 12:03 PM
To: Karle Matt
Cc: Blanchard Scott

Subject: RE: Gympie Regional Council

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request? Yes I certainly did have a hand in the info request, working with Tim and Michelle at the time, I was only wondering what had happened to the site the other day, I had heard rumblings a few months ago the GRC were not happy about some of the IR requirements and was expecting to the need to explain further and justify but it never came. Are they now at the stage they have done the necessary and looking to progress.

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Lucky you, Are you aware of any agreement or procedure for handling of the application now the information request has come in? No agreement or procedure as such to my knowledge, you may wish to raise it with Scott Blanchard all the same.

I would be happy to help if I can /could , the snag may now be that I am currently not in Env Services as I am working on a project (landfill related) for a spell with the Compliance and Investigations team, so my "availability" is limited (or zero) to say the very least if that is what you were enquiring about.

I do fully understand where you may be coming from in terms of the need to perhaps review what has been sent back in response and suggest you start with Scott B and I will wait to hear back before even mentioning it to my current line manager Ralph Riese.

best wishes

Richard Oakley
Principal Environmental Officer
Compliance and Investigations
South East Region
Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-Mol
Facsimile: 07 3381 7560
email richard.oakley@derm.qld.gov.au
www.derm.qld.gov.au

From: Karle Matt
Sent: Monday, 19 September 2011 11:39 AM
To: Oakley Richard
Subject: Gympie Regional Council

Hi Richard, Hows things?

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request?

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Are you aware of any agreement or procedure for handling of the application now the information request has come in?

Regards

Matt Karle
A / Manager (Wide Bay Burnett)

Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

Published on DES Disclosure Log
RTI Act 2009

Karle Matt

From: Brain Tim (DERM)
Sent: Wednesday, 19 October 2011 9:33 AM
To: Karle Matt
Subject: FW: Gympie Regional Council

Hi Matt

Scott is keen to see Richard involved in the assessment of Bonnick Road landfill application but the time he will be able to give to it does not seem clear. Could you please pass on a copy of the information response to Richard and if you are able to point him to particular issues that would be good. It would probably be best if we discussed how we might involve Richard – when you have a chance.
 Thanks

Tim Brain

Manager (Wide Bay Burnett)
 Environmental Services - North
 South East Region
 Department of Environment and Resource Management
 Telephone: (07) 4121 1813
 Facsimile: (07) 4121 1650
 Email: tim.brain@derm.qld.gov.au

www.derm.qld.gov.au

From: Blanchard Scott
Sent: Tuesday, 18 October 2011 11:12 PM
To: Brain Tim (DERM)
Subject: FW: Gympie Regional Council

Tim

As discussed.

Scott

From: Oakley Richard
Sent: Thursday, 22 September 2011 11:19 AM
To: Karle Matt
Cc: Blanchard Scott; Riese Ralph
Subject: RE: Gympie Regional Council

Hi Matt

as per chat happy to assist where I can and if needed , as agreed the ball is in your court I will leave it with you and the team to commence assessment of the info received and if there is anything that I may be able to help with in terms of interpretation / explanation etc you will let me know and I will discuss with Ralph re work planning arrangements and implications before I take it on.

I am aware there is the response to the Vicky Darling to be prepared but again will leave that with you and the team.

Have a great weekend , take care

R

Richard Oakley
Principal Environmental Officer
Compliance and Investigations
South East Region
Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-Md
Facsimile: 07 3381 7560
email richard.oakley@derm.qld.gov.au
www.derm.qld.gov.au

From: Oakley Richard
Sent: Monday, 19 September 2011 12:03 PM
To: Karle Matt
Cc: Blanchard Scott
Subject: RE: Gympie Regional Council

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request? Yes I certainly did have a hand in the info request, working with Tim and Michelle at the time, I was only wondering what had happened to the site the other day, I had heard rumblings a few months ago the GRC were not happy about some of the IR requirements and was expecting to the need to explain further and justify but it never came. Are they now at the stage they have done the necessary and looking to progress.

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Lucky you, Are you aware of any agreement or procedure for handling of the application now the information request has come in? No agreement or procedure as such to my knowledge, you may wish to raise it with Scott Blanchard all the same.

I would be happy to help if I can /could, the snag may now be that I am currently not in Env Services as I am working on a project (landfill related) for a spell with the Compliance and Investigations team, so my "availability" is limited (or zero) to say the very least if that is what you were enquiring about.

I do fully understand where you may be coming from in terms of the need to perhaps review what has been sent back in response and suggest you start with Scott B and I will wait to hear back before even mentioning it to my current line manager Ralph Riese.

best wishes

Richard Oakley
Principal Environmental Officer
Compliance and Investigations
South East Region
Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-Md
Facsimile: 07 3381 7560
email richard.oakley@derm.qld.gov.au
www.derm.qld.gov.au

From: Karle Matt
Sent: Monday, 19 September 2011 11:39 AM
To: Oakley Richard
Subject: Gympie Regional Council

Hi Richard, Hows things?

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request?

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Are you aware of any agreement or procedure for handling of the application now the information request has come in?

Regards

Matt Karle

A / Manager (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Karle Matt
Sent: Friday, 20 January 2012 10:50 AM
To: 'Tanya Allen'
Subject: RE: Bonnick Road - Cut-off system discharges

Hi Tanya,

I might need some interpretation of the table attached to the email from [CTPI 49-Sch4-N] of AGE.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Tanya Allen [mailto:Tanya.Allen@gympie.qld.gov.au]
Sent: Friday, 20 January 2012 10:46 AM
To: Karle Matt
Cc: Donald Meyers; Grayden Curry; Ian Wolff; [CTPI 49-Sch4]@exemail.com.au
Subject: Bonnick Road - Cut-off system discharges

Dear Matt,

Please find attached an email from AGE Consultants to [CTPI 49-Sch4] regarding the discharge (flow) expected from the cut-off system.

If you would like to discuss this information, please contact [CTPI 49-Sch4-N] on mobile [CTPI 49-Sch4] or email [CTPI 49-Sch4]@exemail.com.au.

Kind Regards

Tanya Allen

Environmental Health Officer | Health & Environmental Services | Community Services

Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council

24 Mellor Street, Gympie QLD 4570

PO Box 155 Gympie QLD 4570

e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au



Please consider the environment before printing this email

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Tanya Allen [Tanya.Allen@gympie.qld.gov.au]
Sent: Friday, 20 January 2012 10:46 AM
To: Karle Matt
Cc: Donald Meyers; Grayden Curry; Ian Wolff; CTPI 49-Sch4-@exemail.com.au
Subject: Bonnick Road - Cut-off system discharges
Attachments: RE: [Fwd: FW: FW: T5 testing with A29]

Dear Matt,

Please find attached an email from AGE Consultants to CTPI 49-Sch4-I regarding the discharge (flow) expected from the cut-off system.

If you would like to discuss this information, please contact CTPI 49-Sch4-I on mobile CTPI 49-Sch4-Md or email CTPI 49-Sch4-@exemail.com.au.

Kind Regards

Tanya Allen

Environmental Health Officer | Health & Environmental Services | Community Services
 Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
 24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570
 e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au

 Please consider the environment before printing this email
 1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
 3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Our Ref: 2-9-13-0003 MRG:CMK01138
Your Ref: 221737 MBH2951

20 March 2012

Tim Brain
Department of Environment and Resource Management
Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650

Dear Sir

**RE: Concurrence Agency conditions- Redevelopment of
Bonnick Road Waste Management Facility**

I refer to the recent Concurrence Agency conditions issued by DERM regarding the above redevelopment. I confirm that this matter was recently discussed by Council and particular concern was raised regarding the following noise conditions imposed by DERM:-

1D1-6 *No audible noise from the approved premises is authorised at a nuisance sensitive premises (including noise from the use of vehicles, plant and equipment) between the hours of 5.00pm to 7.00am Monday to Friday and 3.00pm to 10.00am Saturday and Sunday.*

2D1-13 *No audible noise from the Transfer Station is authorised (including noise from the use of vehicles, plant and equipment) between the hours of 5.00pm to 7.00am Monday to Friday and 4.00pm to 9.00am Saturday and Sunday.*

Both conditions restrict landfill and transfer station operations during the weekend ie Landfill - no audible noise before 10.00am and after 3.00pm, Transfer Station - no audible before 9.00am and after 4.00pm.

Council has an obligation to meet the needs of the public to access essential facilities. These time frames significantly restrict operations and access to both facilities.

Council currently operates the Bonnick Rd Waste Management Facility between the hours 8.00am to 5.00pm 7 days per week.

The proposed new operation is significantly improved with respect to noise emissions compared with current operations and DERM has imposed a myriad of conditions on both operations in order to control noise emissions from the site.

Council requires your written justification with regard to the opening hours mentioned above.

Yours faithfully
CTPI 49-Sch4-Signature

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER

Our Ref: 2-9-13-0003 MRG:CMK01149
Your Ref:

20 April 2012

PO Box 155
Gympie QLD 4570
Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services- North
South East Region
Department of Environment and Heritage Protection
PO Box 101
Maryborough QLD 4650

RECEIVED

24 APR 2012

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

Dear Sir

**RE: Concurrence Agency conditions- Redevelopment of
Bonnick Road Waste Management Facility**

In reference to your letter dated 2 April 2012, regarding the operating hours prescribed in the recent Concurrence Agency conditions for the above proposal.

I confirm that Council's consultant has reviewed your response and have questioned the sentence stating that "ANE consultants were unable to guarantee noise mitigation measures proposed for the transfer station would ensure compliance with the noise goal".

ANE have advised that the addendum acoustic assessment dated December 2011 (submitted to DERM) noted that compliance is predicted for transfer station noise, as additional noise attenuation measures have been identified for implementation.

The noise attenuation measures mentioned in the ANE acoustic assessments, including the addendum, will be included in the design of the transfer station. As these measures are predicted to meet noise emission compliance, Council requests that condition 2D1-13 be amended to allow transfer station operations to commence at 8.00am Saturday and Sunday.

Your urgent reply would be appreciated.

Yours faithfully

CTPI 49-Sch4-Signature

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER

CC: Tania Stenholm, Planning and Development

Karle Matt

From: Oakley Richard
Sent: Thursday, 20 October 2011 9:22 AM
To: Karle Matt
Cc: Brain Tim (DERM); Blanchard Scott
Subject: RE: Gympie - Bonnick Road Landfill
 Matt

sorry for not getting back to you sooner.

without seeing the full detail of liner works design and spec, from what you describe it certainly appears to be good in terms of design. It will be important to make sure there is a suitable CQA or other process in place to make sure materials to be used meet the necessary quality criteria and indeed it is all prepared, placed, constructed, tested and signed off as being built in accordance with the design.

Regards the leachate, have they shown any sort of water balance calculations or modelling to demonstrate the proposed design can handle the expected leachate generation based on recirculation input if that is what they are going to be doing?

Recirculation is not a bad thing it can help with waste degradation and site stabilisation but has its risks, so long as the site has the infrastructure in place to handle the expected quantities generated and this has all be based on the modelling/calcs for the landfill design. Problems arise if the design capacity is too low for all liquid input parameters and the system has to run at near/full/over capacity for most the time or modelling has not reasonably taken account of expected inputs, the model/balance calc should show management and performance of the proposed leachate system based on a range of leachate circulation levels %, and wet seasons

Regards the noise, I am no expert on noise it is not my strength, I don't recall them being way off the mark but do recall a hurdle certainly being that councils own study showed there to be an exceedance during daily operations and certain "deficiencies" in the monitoring study methodology that was done. Have these shortfalls now been addressed, a new study done or abatement measures now included, because without evidence of one or the other I think we would struggle to conclude a positive determination, we would be permitting when we know criteria can not be met.

happy to help where and if I can

Principal Environmental Officer
 Compliance and Investigations
 South East Region
 Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-Mot
Facsimile: 07 3381 7560
 email richard.oakley@derm.qld.gov.au
 www.derm.qld.gov.au

From: Karle Matt
Sent: Tuesday, 18 October 2011 3:50 PM
To: Oakley Richard
Subject: Gympie - Bonnick Road Landfill

Hey Richard,

I've been reading through the response to info request for the proposed Gympie landfill extension and Transfer Station at Bonnick Road Gympie.

The landfill development seems to propose work consistent with or better than the DERM Guideline – Landfill siting, design, operation and rehabilitation. They have proposed preparation of

a base subgrade, megaflow drains for a groundwater depressurisation system, a 600mm low permeability clay base, a 600mm geosynthetic clay liner; a 300mm confining layer, geotextiles and 300mm gravel blanket leachate collection system. All sounds ok or better than the guideline.

They haven't really attempted to characterise runoff or leachate collection quality, and they do propose to irrigate leachate onto the landfill, but haven't really delved into whether the landfill will be operated as an "enhanced biodegradation landfill", hence I think the proposal to irrigate leachate across the landfill is only a disposal option. Never the less its probably ok to do so.

It really seems to me that the main issues will be known non – compliance with noise and odour against recognised nuisance scales and modelling completed.

Do you recall whether what was proposed (in general terms) was way off the mark, or whether what was proposed was generally not too bad?

Any comments from your recollection would be appreciated.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Oakley Richard
Sent: Thursday, 20 October 2011 9:29 AM
To: Karle Matt
Subject: RE: Gympie - Bonnick Road Landfill

Hi Mat

Its all coming back to me slowly !

on another matter, how are they are going to incorporate or deal with that old drain and the existing leachate system has it been explained/included?
 im in meeting at 9:30 drop me a line if needed and I will call when Im back out

Rich O

From: Oakley Richard
Sent: Thursday, 20 October 2011 9:22 AM
To: Karle Matt
Cc: Brain Tim (DERM); Blanchard Scott
Subject: RE: Gympie - Bonnick Road Landfill

Matt

sorry for not getting back to you sooner.

without seeing the full detail of liner works design and spec, from what you describe it certainly appears to be good in terms of design. It will be important to make sure there is a suitable CQA or other process in place to make sure materials to be used meet the necessary quality criteria and indeed it is all prepared, placed, constructed, tested and signed off as being built in accordance with the design.

Regards the leachate, have they shown any sort of water balance calculations or modelling to demonstrate the proposed design can handle the expected leachate generation based on recirculation input if that is what they are going to be doing ?
 Recirculation is not a bad thing it can help with waste degradation and site stabilisation but has its risks, so long as the site has the infrastructure in place to handle the expected quantities generated and this has all be based on the modelling/calcs for the landfill design. Problems arise if the design capacity is too low for all liquid input parameters and the sytem has to run at near/full/over capacity for most the time or modelling has not reasonably taken account of expected inputs, the model/balance calc should show management and performance of the proposed leachate system based on a range of leachate circulation levels %. and wet seasons
 Regards the noise, I am no expert on noise it is not my strength, I dont recall them being way off the mark but do recall a hurdle certainly being that councils own study showed there to be an exceedance during daily operations and certain "deficiencies" in the monitoring study methodology that was done. Have these shortfalls now been addressed, a new study done or abatement measures now included, because with out evidence of one or the other I think we would struggle to conclude a positive determination, we would be permitting when we know criteria can not be met.

happy to help where and if I can

Principal Environmental Officer
 Compliance and Investigations
 South East Region
 Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-Mob
Facsimile: 07 3381 7560
 email richard.oakley@derm.qld.gov.au

www.derm.qld.gov.au

From: Karle Matt
Sent: Tuesday, 18 October 2011 3:50 PM
To: Oakley Richard
Subject: Gympie - Bonnick Road Landfill

Hey Richard,

I've been reading through the response to info request for the proposed Gympie landfill extension and Transfer Station at Bonnick Road Gympie.

The landfill development seems to propose work consistent with or better than the DERM Guideline – Landfill siting, design, operation and rehabilitation. They have proposed preparation of a base subgrade, megaflo drains for a groundwater depressurisation system, a 600mm low permeability clay base, a 600mm geosynthetic clay liner; a 300mm confining layer, geotextiles and 300mm gravel blanket leachate collection system. All sounds ok or better than the guideline.

They haven't really attempted to characterise runoff or leachate collection quality, and they do propose to irrigate leachate onto the landfill, but haven't really delved into whether the landfill will be operated as an "enhanced biodegradation landfill", hence I think the proposal to irrigate leachate across the landfill is only a disposal option. Never the less its probably ok to do so.

It really seems to me that the main issues will be known non – compliance with noise and odour against recognised nuisance scales and modelling completed.

Do you recall whether what was proposed (in general terms) was way off the mark, or whether what was proposed was generally not too bad?

Any comments from your recollection would be appreciated.

Regards

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Eskdale Ian
Sent: Tuesday, 20 December 2011 4:45 PM
To: Karle Matt
Cc: Oakley Richard
Subject: Asbestos and landfill conditions

Hi Matt

I am involved with the Interagency Asbestos Group (IAG) which seeks to coordinate a range of asbestos-related matters across government departments.

I have received a query from a Queensland Health colleague who is also involved with the IAG. He has been told by one of his regional colleagues that DERM intends to condition an approval for a proposed local government landfill (Bonnick Road Landfill Gympie) so that it cannot receive asbestos. He is also told that the condition appears to be part of a standard condition included in similar approvals. Queensland Health is potentially concerned that if this was a standard condition it could have significant consequences particularly so in areas where there are very few, if any, legal disposal alternatives to the local government landfill.

From previous conversations I have had with Richard Oakley (and confirmed again today), I understand that there is not a standard condition to prohibit the acceptance of asbestos waste at landfills.

Could we please discuss - I can then provide my IAG colleague with a better understanding of the details on this matter.

Thanks and my regards.

Ian Eskdale
Environment and Natural Resource Regulation Division
Qld Department of Environment and Resource Management
Tel: (07) 3330 5734
Fax: (07) 3330 5754
Web site: <http://www.derm.qld.gov.au>

R

Karle Matt

From: ministererm.corro@derm.qld.gov.au

Sent: Wednesday, 21 September 2011 5:16 PM

To: Karle Matt

Subject: Allocated to you : Due: 26/09/11 16697/11 Subject: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that applic

Item Number 16697/11 has been sent to you for action. This item is due on 26/09/11
They supplied the following (comments are inserted here if supplied): Hi Matt, please prepare a briefing note and letter for Minister Darling. Due to Corro OER RSD SE by 3pm Monday 26/09/2011. Thanks, Maria. .

Item Details

Document Type: Min - Request for Reply and Brief

Subject: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that application is thoroughly investigated

Final due date: 28/09/11

You should either:

1. Allocate this to an officer for action.
2. Take responsibility for preparing a response by 'Accepting Authorship'.
3. Send back to the person who sent it to you by selecting 'Return to Sender'.

Please click on the [Item Link](#) to view the Min - Request for Reply and Brief

If you have any queries please contact Canavan Maria or officers from Minister Environment by emailing to ministererm.corro@derm.qld.gov.au or via the link [Management Team Link](#).

email: EmailAllocateAgencyOfficerForResponseESU

R

Karle Matt

From: ministererm.corro@derm.qld.gov.au

Sent: Wednesday, 21 September 2011 5:16 PM

To: Karle Matt

Subject: Allocated to you : Due: 26/09/11 16697/11 Subject: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that applic

Item Number 16697/11 has been sent to you for action. This item is due on 26/09/11. They supplied the following (comments are inserted here if supplied): Hi Matt, please prepare a briefing note and letter for Minister Darling. Due to Corro OER RSD SE by 3pm Monday 26/09/2011. Thanks, Maria. .

Item Details

Document Type: Min - Request for Reply and Brief

Subject: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that application is thoroughly investigated

Final due date: 28/09/11

You should either:

1. Allocate this to an officer for action.
2. Take responsibility for preparing a response by 'Accepting Authorship'.
3. Send back to the person who sent it to you by selecting 'Return to Sender'.

Please click on the [Item Link](#) to view the Min - Request for Reply and Brief

If you have any queries please contact Canavan Maria or officers from Minister Environment by emailing to ministererm.corro@derm.qld.gov.au or via the link [Management Team Link](#).

email: EmailAllocateAgencyOfficerForResponseESU

Authorisation

Crow 49673
Denise

Credit Card Payment

This form to be completed when requesting the supply of product or services from the EPA/QPW.

NAME AND ADDRESS GOODS/SERVICES ARE TO BE SUPPLIED TO:	ATTENTION: MICHAEL GRANT GYMPIE REGIONAL COUNCIL PO BOX 155, GYMPIE QLD 4570		
DAYTIME TELEPHONE NUMBER:	(07) 5481 0611		
TYPE OF CREDIT CARD: VALIDITY:	VALID FROM: 12/09		VALID TO: 11/12
NAME AS IT APPEARS ON CARD:	MR MICHAEL GRANT GYMPIE REGIONAL COUNCIL		
CARDHOLDERS SIGNATURE:			
PRODUCTS/SERVICES REQUESTED	AMOUNT (EXCLUDING GST)	GST AMOUNT	AMOUNT (INCLUDING GST)
ERA DA balance			333.00
			\$0.00
			\$0.00
			\$0.00
POSTAGE:			\$0.00
TOTAL COST:			\$0.00
DELIVERY INSTRUCTIONS:	<div style="text-align: right;">333.00</div>		

Office Use Only			
DETAILS OF STAFF MEMBER ACCEPTING REQUEST - PRINT NAME AND EXTENSION PLEASE.		EXTENSION: _____	
RECEIPT NUMBER:	3953316	DATE:	21-12-10
AMOUNT \$:	333.00		

(3547) KIRNE

The Environmental Protection Agency collects personal information necessary to process your transaction and advise you of additional services. For queries about privacy matters contact (07) 3227 6458 or privacy.enquiry@epa.qld.gov.au

RECEIVED

21 DEC 2010

PaLM



Queensland Government
Dept of Environment & Resource Management

ABN: 46 640 294 485

RECEIPT

Received from: Mr Michael Grant
ABN/Address: Gympie Regional Council Mastercard 3547

No.: 3953316

Description	Qty	Unit	Val	Extended	Discount	Ext Value	GST	Total Price
DEVELOPMENT APP ERA BALANCE	1		333.00	333.00	0.00	333.00		333.00

Date: 21/12/10	Time: 09:47	DMASTERC	333.00	Tot Value:	333.00
Brch: dnrbris	SPer: knh			GST:	0.00
CYC: 153420	Reg: 92	Tendered	333.00	Tot Price:	333.00
				Tendered:	333.00
				Change:	0.00

Cheques or other negotiable instruments accepted subject to clearance.

☐ (LEVEL 1) For Information & Filing

☒ (LEVEL 2) Regional Action Required

DA Coordinator / Business Unit..... Ecotrack #..... 221737
Client #..... 656572..... CROW #..... 49673
Track Job #..... SPCE01417310..... Application ID #..... 450757



Department of Environment and Resource Management Validation Checklist

Development Approval Application ☒ Single ☐ Multi ☐ Smart eDA ☐

Smart eDA ref: Filepath G:ECSU/Smart eDA/.....

Individual / Company / Business Name..... Gympie Regional Council

Contact Person..... CHD..... PALM Coordinator..... Denise Henderson

Application Received: 13/12/10..... Acknowledgement Notice Due:/...../.....
(If Assessment Manager)

Properly Made Date: 21/12/10..... Advice Response Due: 16/02/11

Information Request Due:/...../.....

Lc..... 542..... Plan: MCH 801883..... LGA: Gympie Regional Council
(Refer to form 1) (Refer to form 1)

Application type

☒ Material Change of Use (form 5) ☐ Op..... iring a Lot (form 7)

Referral Type

☒ Concurrence Agency ☐ Ad..... y Advice
☐ Assessment Manager ☐ (ref.....
☐ Alternate Assessment Manager (referral a.....

11,100: paid
IN 212824
cheque
092049
paid on a
withdrawn app.
advised by district

Indicate by Yes ☒ or I

A ☒ in any of the checkboxes may indic

All Applications

SPA Forms 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14,
5, 16, 17, 18, 19, 20, 21, 23, 24, 28, 29, 30, 33

IDAS Checklist Completed

☒

SPA - within 20 bus days of date of Acknowledgement Notice ☒

IPA - within 3 months of date of Acknowledgement Notice ☐

Mandatory R

APPLICATI

Is the Appli

Is the Appli

Native Title

Native Title

Resource E

Resource E

Owners Cc

Owners Cc

Acknowledgement Notice Prepared ☒

Date Prepared: 21/12/10..... Processor's initials:

CTPI 49-Sc

☐ COASTAL

- ☐ Building Work: Form 2 completed
 - ☐ The information required under chapter 3, parts 1 and 2 of the Building Act 1975
 - ☐ Plans, drawings and specifications to enable assessment against section 30 (Building assessment provisions) of the Building Act 1975
- ☐ Reconfiguring a Lot: Form 7 completed
- ☐ Material Change of Use: Form 5 completed
- ☐ Tidal Works and CMD's: Form 23 Completed
 - ☐ Constructing artificial waterway
 - ☐ Interfering with Quarry material
 - ☐ Works in a watercourse
 - ☐ Reclaiming Land
 - ☐ Draining across Coastal land
 - ☐ Poned pastures
 - ☐ Interfering with Coastal Dunes
 - ☐ Disposing of Dredge spoil

Written description of the proposal including a report that addresses the following:

- ☐ natural coastal, riverine and estuarine processes
- ☐ natural topography and drainage of coastal land
- ☐ coastal wetlands and other coastal ecological systems
- ☐ places or objects that have cultural heritage, landscape, historical, anthropological, archaeological or aesthetic significance or value
- ☐ public access to the foreshore

Plans certified by a registered professional engineer of Queensland (RPEQ) (or an interstate or international equivalent registered with the appropriate professional body) showing:

- ☐ the location (real property description and boundaries) and dimensions of the proposed works
- ☐ in relation to the land (including tidal land) that would abut or adjoin the proposed works
- ☐ the proposed works in relation to the locations and levels of lowest astronomical tide, highest astronomical tide, mean high water springs and the coastal management district
- ☐ the slope angles of the beds/ banks of the tidal area and the finished levels of the proposed works

Other documents:

- ☐ a copy of the certificate of title for the land (including tidal land) that would abut or adjoin the proposed works

☐ Form 28 completed

- ☐ Prescribed Tidal Works

Plans certified by a registered professional engineer of Queensland (RPEQ) (or an interstate or international equivalent registered with the appropriate professional body) showing:

- ☐ the location (real property description and boundaries) and dimensions of the proposed works in relation to the land (including tidal land) that would abut or adjoin the proposed works
- ☐ the proposed works in relation to the locations and levels of lowest astronomical tide, highest astronomical tide, mean high water springs and the coastal management district
- ☐ the slope angles of the beds/ banks of the tidal area and the finished levels of the proposed works

Written statements or evidence

- ☐ a copy of the certificate of title for the land (including tidal land) that would abut or adjoin the proposed works
- ☐ details of how the proposed work addresses the IDAS code for prescribed tidal work in the Coastal Protection and Management Regulation 2003, schedule 4A
- ☐ details of the largest vessel, if any, to be moored at the structure
- ☐ evidence that the proposed work will not prejudice the access rights of adjoining property owners in the form of: letters of support from adjoining property owner, or plans illustrating a water allocation area

For applications within a cul-de-sac, a bend in the waterway or other location where the side boundaries of the lot connect to the work and neighbouring lots are not at right angles to the waterway

- ☐ photos of any constructed neighbouring structures or information about approved but unconstructed neighbouring structures

☒ Form 8 completed Era No/s 60 (22)
About the subject land (other than for a mobile and temporary ERA)

- ☐ description of the site, including site maps showing vegetation, topography and any areas of cultural significance)
- ☐ description of the receiving environment, including maps showing surrounding land uses
- ☐ details of the distance to any watercourse, dam, bore or other water on, adjoining or near premises
- ☐ details of any known acid sulphate soils within or adjoining the premises

About the proposed ERA

- ☐ a description of the activity, including proposed operation, discharge points, operating hours and process details
- ☐ details about how the activity achieves best practice environmental management, including technology used, management approach, environmental management plans, and monitoring
- ☐ details of the proposed release of any contaminant or emission to air, land or water and the impacts on the receiving environment, including how the activity conforms with the management hierarchy in the Environmental Protection (Air) Policy 2008

R

☒ ENVIRONMENTAL OPERATIONS

☐ (LEVEL 1) For Information & Filing

☒ (LEVEL 2) Regional Action Required

DA Coordinator / Business Unit..... Ecotrack # 221737
Client # 656572..... CROW # 49673
Track Job # SPCE01417310 Application ID # 450757



Department of Environment and Resource Management Validation Checklist

Development Approval Application Single ☒ Multi ☐ Smart eDA ☐

Smart eDA ref: Filepath G:\ECSU\Smart eDA\.....

Individual / Company / Business Name Gympie Regional Council

Contact Person CHD..... PALM Coordinator Daniel Henderson

Application Received: 13/12/10

Acknowledgement Notice Due:/...../.....

(If Assessment Manager)

Properly Made Date: 21/12/10

Advice Response Due: 10/02/11

Information Request Due:/...../.....

Lc 542
(Refer to form 1)

Plan: MCH 801883
(Refer to form 1)

LGA: Gympie Regional Council

Application type

☒ Material Change of Use (form 5) ☐ Operational Works (form 6) ☐ Reconfiguring a Lot (form 7)

Referral Type

☒ Concurrence Agency ☐ Advice Agency ☐ Third Party Advice
☐ Assessment Manager ☐ (referral agencies)
☐ Alternate Assessment Manager (referral agencies)

Indicate by Yes ☒ or No ☐. Leave unmarked if not applicable

A ☒ in any of the checkboxes may indicate a not a properly made or properly referred application

All Applications

SPA Forms 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 5, 16, 17, 18, 19, 20, 21, 23, 24, 28, 29, 30, 33

IDAS Checklist Completed

Mandatory Requirements provided

When DERM is Concurrence Agency/Advice/Third Party Advice

Acknowledgement Notice Attached & valid 25/11/10

SPA - within 20 bus days of date of Acknowledgement Notice

IPA - within 3 months of date of Acknowledgement Notice

Revived - ____/____/____

APPLICATION PROCESSING

Indicate Yes ☒ or No ☐

Is the Application properly made

☒

if ☒, proceed Notice of not a properly made Application

Is the Application properly referred

☒

if ☒, proceed Notice of not a properly referred Application

Native Title Notification Required

☐

if ☒, attach copy of Notification to applicant

Native Title Assessment Completed

☐

complete the assessment sheet and attach copy

Resource Entitlement required

☐

Required for all applicable Jurisdictions

Resource Entitlement granted

☐

Granted for all applicable Jurisdictions

Owners Consent Required

☒

Owners consent required for MCU & RaL, not Ops Works

Owners Consent provided

☒

Acknowledgement Notice Prepared

☐

Date Prepared: 22/12/10 Processor's initials: CTPI 49-Sch4

☐ COASTAL

- ☐ Building Work: Form 2 completed
 - ☐ The information required under chapter 3, parts 1 and 2 of the Building Act 1975
 - ☐ Plans, drawings and specifications to enable assessment against section 30 (Building assessment provisions) of the Building Act 1975
- ☐ Reconfiguring a Lot: Form 7 completed
- ☐ Material Change of Use: Form 5 completed
- ☐ Tidal Works and CMD's: Form 23 Completed
 - ☐ Constructing artificial waterway
 - ☐ Interfering with Quarry material
 - ☐ Works in a watercourse
 - ☐ Reclaiming Land
 - ☐ Draining across Coastal land
 - ☐ Poned pastures
 - ☐ Interfering with Coastal Dunes
 - ☐ Disposing of Dredge spoil

Written description of the proposal including a report that addresses the following:

- ☐ natural coastal, riverine and estuarine processes
- ☐ natural topography and drainage of coastal land
- ☐ coastal wetlands and other coastal ecological systems
- ☐ places or objects that have cultural heritage, landscape, historical, anthropological, archaeological or aesthetic significance or value
- ☐ public access to the foreshore

Plans certified by a registered professional engineer of Queensland (RPEQ) (or an interstate or international equivalent registered with the appropriate professional body) showing:

- ☐ the location (real property description and boundaries) and dimensions of the proposed works
- ☐ in relation to the land (including tidal land) that would abut or adjoin the proposed works
- ☐ the proposed works in relation to the locations and levels of lowest astronomical tide, highest astronomical tide, mean high water springs and the coastal management district
- ☐ the slope angles of the beds/ banks of the tidal area and the finished levels of the proposed works

Other documents:

- ☐ a copy of the certificate of title for the land (including tidal land) that would abut or adjoin the proposed works

☐ Form 28 completed

☐ Prescribed Tidal Works

Plans certified by a registered professional engineer of Queensland (RPEQ) (or an interstate or international equivalent registered with the appropriate professional body) showing:

- ☐ the location (real property description and boundaries) and dimensions of the proposed works in relation to the land (including tidal land) that would abut or adjoin the proposed works
- ☐ the proposed works in relation to the locations and levels of lowest astronomical tide, highest astronomical tide, mean high water springs and the coastal management district
- ☐ the slope angles of the beds/ banks of the tidal area and the finished levels of the proposed works

Written statements or evidence

- ☐ a copy of the certificate of title for the land (including tidal land) that would abut or adjoin the proposed works
- ☐ details of how the proposed work addresses the IDAS code for prescribed tidal work in the Coastal Protection and Management Regulation 2003, schedule 4A
- ☐ details of the largest vessel, if any, to be moored at the structure
- ☐ evidence that the proposed work will not prejudice the access rights of adjoining property owners in the form of: letters of support from adjoining property owner, or plans illustrating a water allocation area

For applications within a cul-de-sac, a bend in the waterway or other location where the side boundaries of the lot connect to the work and neighbouring lots are not at right angles to the waterway

- ☐ photos of any constructed neighbouring structures or information about approved but unconstructed neighbouring structures

☒ Form 8 completed Era No/s 60 (22)
About the subject land (other than for a mobile and temporary ERA)

- ☐ description of the site, including site maps showing vegetation, topography and any areas of cultural significance)
- ☐ description of the receiving environment, including maps showing surrounding land uses
- ☐ details of the distance to any watercourse, dam, bore or other water on, adjoining or near premises
- ☐ details of any known acid sulphate soils within or adjoining the premises

About the proposed ERA

- ☐ a description of the activity, including proposed operation, discharge points, operating hours and process details
- ☐ details about how the activity achieves best practice environmental management, including technology used, management approach, environmental management plans, and monitoring
- ☐ details of the proposed release of any contaminant or emission to air, land or water and the impacts on the receiving environment, including how the activity conforms with the management hierarchy in the Environmental Protection (Air) Policy 2008

☒ ENVIRONMENTAL OPERATIONS

☐ HERITAGE	<p>Heritage Register No. 60 _ _ _ _</p> <p>☐ Building Work: Form 2 completed</p> <ul style="list-style-type: none"> ☐ The information required under chapter 3, parts 1 and 2 of the Building Act 1975 ☐ Plans, drawings and specifications to enable assessment against section 30 (Building assessment provisions) of the Building Act 1975 <p>☐ Development in a Heritage Registered place: Form 3 completed</p> <ul style="list-style-type: none"> ☐ a heritage impact statement—this statement must be prepared by an appropriately qualified person (that is, a person who has qualifications in archaeology, architecture or history or is a member of a professional heritage organisation, for example Australia ICOMOS) and must provide a detailed analysis of how the development will conserve or impact upon the physical attributes of the place, the setting or context of the place, and other factors that contribute to the cultural heritage significance of the place (as described in the Queensland Heritage Register) ☐ recent photographs of the Queensland heritage place—the photographs must depict areas of the place that be affected by the development ☐ a site plan to scale showing the location of the proposed development in relation to existing features of the Queensland heritage place ☐ plans, sections and elevations to scale of the proposed development in relation to existing features of the Queensland heritage place ☐ consultants' reports—a report must be provided where there are specific technical issues, such as structural, economic or safety issues. The report must demonstrate how potential detrimental impacts will be managed be prepared by appropriately qualified persons ☐ Mandatory supporting information for development that shares a common boundary with a lot that comprises contains a Queensland Heritage Place, shares a common boundary with a Queensland heritage place or comprises or contains a Queensland heritage place ☐ a heritage impact statement—this statement must be prepared by an appropriately qualified person and describe the setting and context of the place and how the proposed development will affect the cultural heritage significance of the place ☐ recent photographs of the Queensland heritage place and its setting—the photographs must show the wider streetscape or context of the place ☐ plans, sections and elevations to scale of the proposed development in relation to existing features of the Queensland heritage place
☐ CONSERVATION SERVICES	<p>☐ Koala conservation area ☐ Koala sustainability area</p> <p>Is DERM the Assessment Manager for the development application?</p> <p>Yes ☐ - go to the next step</p> <p>No ☐ - no obligation to check koala habitat under SPRP, ensure that Koala Plan has been adequately considered</p> <p>For all DA's with bushland habitat area and interim koala habitat area.</p> <p>Was the application properly made before 2 November 2009?</p> <p>Yes ☐ - exempt from the planning regulatory provisions- proceed with assessment No ☐ - go to the next step</p> <p>Is it a declared significant project under the <i>State Development and Public Works Organisation Act 1971</i> or in a state development area?</p> <p>Yes ☐ - exempt from the planning regulatory provisions- proceed with assessment No ☐ - move to the next step</p> <p>Was the application lodged on or after 02nd November 2009 but before 28 February 2010?</p> <p>Yes ☐ - consider requirements of November 2009 SPRP No ☐ - consider requirements of February 2010 SPRP</p> <p>Development in the protected koala bushland habitat area under February 2010 SPRP</p> <p>Is the development occurring within the mapped area of the bushland habitat area?</p> <p>Yes ☐ - move to next step. No ☐ - proceed with assessment</p> <p>Is the development for a private residence on a lot?</p> <p>Yes ☐ - DERM has no role in assessing this application- return to (applicant/AM) No ☐ - go to next step</p> <p>Will the development result in no more than 500m² of native vegetation being cleared?</p> <p>Yes ☐ - deemed as prohibited development- application cannot be lodged. No ☐ - go to the next step</p> <p>Is the DA for community infrastructure* carried out by or on behalf of a public sector entity?</p> <p>Yes ☐ - proceed with assessment No ☐ - deemed as prohibited development- application cannot be lodged.</p> <p>Needs assessment if it:</p> <p>Reconfiguration of a lot- increasing the number of lots</p> <p>DA for a private residence on a lot; and Development that will result in: A gross floor area of more than 500m²; and The clearing of more the 2500m² of native vegetation; and the excavation or filling of an area greater than 5000m²; and there will be loss of mature koala trees</p>
☐ CONTAMINATED LAND	<p>☐ Form 24 completed ☐ EMR/CLR ☐ Natural Mineralisation/Industrial Activity</p> <p>☐ UXO ☐ Notifiable activity/Industrial Activity</p> <ul style="list-style-type: none"> ☐ plans showing where any notifiable activities, hazardous contaminant or potentially contaminated activity has occurred on the premises ☐ if the application involves a material change of use from an industrial use to a more sensitive use(e.g. child care, educational, recreational or residential purposes), then a detailed site history outlining previous potentially contaminated uses on the premises
☐ WILD RIVERS	<p>☐ Agricultural activities: Form 29 completed</p> <ul style="list-style-type: none"> ☐ a survey plan or chart showing the location of the activity (including GPS coordinates and zone reference—GDA94 preferred) and important features in the surrounding area (the coordinates should be the average of at least three readings taken with as much time as possible between each reading) ☐ plans showing lot boundaries and descriptions ☐ plans showing existing licensed or permitted works ☐ plans showing the position of any watercourses or water bodies ☐ plans showing the position of any roads ☐ plans showing the shortest distance from the boundary and the outer bank of each nominated waterway ☐ details of the proposed agricultural activities ☐ GPS coordinates for each point locating the boundary of the proposed development area corresponding to the numbered points on the accompanying survey plan or chart ☐ how the proposed development complies with wild rivers code mentioned in the Wild Rivers Act 2005, sect 6A

	☐ Animal husbandry: Form 30 completed <ul style="list-style-type: none"> ☐ a survey plan or chart showing the location of the activity (including GPS coordinates and zone reference—GDA94 preferred) and important features in the surrounding area (the coordinates should be the average of at least three readings taken with as much time as possible between each reading) ☐ plans showing lot boundaries and descriptions ☐ plans showing existing licensed or permitted works ☐ plans showing the position of any watercourses or water bodies ☐ plans showing the position of any roads ☐ details of the proposed animal husbandry activity ☐ GPS coordinates for each point locating the boundary of the proposed development area corresponding to the numbered points on the accompanying survey plan or chart ☐ how the proposed development complies with wild rivers code mentioned in the Wild Rivers Act 2005, sect 6A
☐ CLEARING VEGETATION ☐ LAND FREEZE ☐ Email sent koala.plan@derm.qld.gov.au Concurrence role (MCU, RaL or Op Works) Notes: Correctly referred checks and properly referred checks at right, both need to be conducted in full. The 'correct referral' checks at right are preliminary and not entirely conclusive. VM officers can provide direct assistance to ISU staff regarding the applicability of exemptions for clearing in specific situations. Questions raised by applicants regarding the basis for referral to DERM should be directed to the Assessment Manager in the first instance – as per instructions in the 'Not properly referred (incomplete)' Notice .	<div> ☐ MATERIAL CHANGE OF USE </div> <div> ☐ Correctly referred– Freehold and Indigenous land (All boxes must be ticked) <ul style="list-style-type: none"> ☐ Not for a single residence on an existing lot where no residence currently exists or for a community Residence on Indigenous land ☐ Any existing lot is 2ha or more ☐ Any existing lot contains either remnant vegetation or category A or B vegetation on a PMAV </div> <hr/> <div> ☐ Correctly referred– State leasehold land (All boxes must be ticked) <ul style="list-style-type: none"> ☐ Not for a single residence on an existing lot where no residence currently exists ☐ Any existing lot is 2ha or more </div> <hr/> <div> ☐ Correctly referred– Other State land: USL, trust land, roads, land subject to a licence or Permit or boundary watercourses (All boxes must be ticked) <ul style="list-style-type: none"> ☐ Any existing lot is 2ha or more ☐ Any existing lot contains native vegetation (regardless of whether it's shown as remnant vegetation) </div> <hr/> <div> ☐ Properly referred – all tenures (Bolded boxes must be ticked) <ul style="list-style-type: none"> ☐ Fee <ul style="list-style-type: none"> ☐ Total application area is <5ha - \$3000 OR ☐ Total application area is 5ha or more - \$5000 ☐ Form 11 completed ☐ PVMP provided If ☒, PVMP must include <ul style="list-style-type: none"> ☐ Relevant purpose + ☐ Code/policy addressed + ☐ Map showing buildings/fences/roads/ firebreaks + ☐ Location and extent of clearing shown on an image displaying 5 GPS coordinates OR ☐ A list of MGA coordinates encompassing the extent of clearing </div> <hr/> <div> ☐ RECONFIGURING A LOT </div> <div> ☐ Correctly referred (All boxes must be ticked) <ul style="list-style-type: none"> ☐ Freehold land ☐ Any existing lot is 2ha or larger ☐ The size of any lot created is 25ha or smaller ☐ Any existing lot contains either remnant vegetation or category A or B vegetation on a PMAV </div> <hr/> <div> ☐ Properly referred (Bolded boxes must be ticked) <ul style="list-style-type: none"> ☐ Fee <ul style="list-style-type: none"> ☐ Reconfiguring any number of lots into 2 lots - \$331.20 OR ☐ Total application area is <5ha - \$3000 OR ☐ Total application area is 5ha or more - \$5000 ☐ Form 11 completed ☐ PVMP provided If ☒, PVMP must include <ul style="list-style-type: none"> ☐ Code/policy addressed + ☐ Map showing buildings/fences/roads/ firebreaks + ☐ Location and extent of clearing shown on an image displaying 5 GPS coordinates OR ☐ A list of MGA coordinates encompassing the extent of clearing </div> <hr/> <div> ☐ OPERATIONAL WORKS </div> <div> An application can not be accepted by the Assessment Manager or DERM without: <ul style="list-style-type: none"> ☐ Written confirmation from DERM that proposed clearing is for a relevant purpose under s22A VMA </div> <hr/> <div> ☐ Correctly referred– Freehold and Indigenous land or agricultural and grazing leases (All boxes must be ticked) <ul style="list-style-type: none"> ☐ Application does not contain confirmation from DERM that clearing is exempt development ☐ Subject lot/s contains either remnant vegetation or category A or B vegetation on a PMAV ☐ Application identifies that clearing of remnant vegetation or category A or B vegetation will occur </div> <hr/> <div> ☐ Correctly referred– Other tenures (All boxes must be ticked) <ul style="list-style-type: none"> ☐ Application does not contain confirmation from DERM that clearing is exempt development ☐ Application identifies that clearing of native vegetation will occur </div>

	<p>☐ Properly referred (Bolded boxes must be ticked)</p> <p>☐ Fee (dependant on nature of the 'confirmed' relevant purpose)</p> <p>☐ Public Safety or control of non-native plants & declared pests 22A(b or c)- \$ NIL</p> <p>☐ Significant project s22A(a)- \$5000</p> <p>☐ Fence/firebreak/road/track/built infrastructure s22A(d) + clearing <5ha- \$1200</p> <p>☐ Extractive industry + not a key resource area s22A(i)- \$1200</p> <p>☐ Extractive industry + in a key resource area s22A(i)- \$3000</p> <p>☐ All other purposes s22A(d-h, j) - \$331.20</p> <p>☐ Form 11 completed</p> <p>☐ PVMP provided</p> <p>If ☒, PVMP must include</p> <p>☐ Relevant purpose confirmation from DERM + ☐ Relevant code/policy addressed + ☐ Location and extent of clearing shown on an image displaying 5 GPS coordinates OR ☐ A list of MGA coordinates encompassing the extent of clearing</p>
<p>☐ CLEARING VEGETATION</p> <p>☐ LAND FREEZE</p> <p>☐ Email sent</p> <p>koala.plan@derm.qld.gov.au</p> <p>Assessment Manager role</p> <p>Notes:</p> <p>Assessable development checks and properly made checks at right both need to be conducted in full.</p> <p>The 'assessable development' checks are preliminary and not entirely conclusive.</p> <p>It is recommended that applicants consult directly with VM officers in a relevant regional office if there are questions concerning the applicability of particular exemptions for clearing in specific situations.</p>	<p>☐ Clearing is assessable development- Freehold and Indigenous land or agricultural and grazing leases (All boxes must be ticked)</p> <p>☐ Application does not contain confirmation from DERM that clearing is exempt development</p> <p>☐ Subject lot/s contains either remnant vegetation or category A or B vegetation on a PMAV</p> <p>☐ Application identifies that clearing of remnant vegetation or category A or B vegetation will occur</p> <hr/> <p>☐ Clearing is assessable development- Other tenures (All boxes must be ticked)</p> <p>☐ Application does not contain confirmation from DERM that clearing is exempt development</p> <p>☐ Application identifies that clearing of native vegetation will occur</p> <hr/> <p>☐ Properly made (Bolded boxes must be ticked)</p> <p>☐ Form 11 completed</p> <p>☐ Fee</p> <p>☐ Public Safety or control of non-native plants & declared pests 22A(b or c)- \$ NIL</p> <p>☐ Significant project s22A(a)- \$5000</p> <p>☐ Fence/firebreak/road/track/built infrastructure s22A(d) + clearing <5ha- \$1200</p> <p>☐ Extractive industry + not a key resource area s22A(i)- \$1200</p> <p>☐ Extractive industry + in a key resource area s22A(i)- \$3000</p> <p>☐ All other purposes s22A(d-h, j)- \$331.20</p> <p>☐ PVMP provided</p> <p>If ☒, PVMP must include</p> <p>☐ Justification for relevant purpose + ☐ Code/policy addressed + ☐ Location and extent of clearing shown on an image displaying 5 GPS coordinates OR ☐ A list of MGA coordinates encompassing the extent of clearing</p>
<p>☐ WATER</p> <p>The 'Consent of the chief executive' to accompany all water Take or Interfere applications. Ensure all parts of the Consent have been completed by the regional delegate.</p> <p>Form 1, Q9 table G:</p> <p>Copy of evidence to be provided (eg. water licence, water permit, interim water allocation, water allocation, seasonal water assignment)</p> <p>Question 8 on the works application - all are mandatory</p>	<p>☐ Taking or interfering with artesian/sub-artesian water: Form 12 complete</p> <p>☐ the location of the proposed works, if known, and any existing works for taking artesian or sub-artesian water</p> <p>☐ lot boundaries and descriptions</p> <p>☐ existing licensed or permitted works</p> <p>☐ the position of any watercourses or water bodies</p> <p>☐ the position of any roads</p> <p>☐ the position of any area to be irrigated</p> <p>☐ Watercourse pump: Form 13 completed</p> <p>☐ the location of the proposed water pump and any existing pump</p> <p>☐ lot boundaries and descriptions</p> <p>☐ existing licensed or permitted works</p> <p>☐ the position of any watercourses or water bodies</p> <p>☐ the position of any roads</p> <p>☐ the position of any area to be irrigated</p> <p>☐ Water storage: Form 14 completed</p> <p>☐ the location of the proposed water storage and any existing storage</p> <p>☐ lot boundaries and descriptions</p> <p>☐ existing licensed or permitted works</p> <p>☐ the position of any watercourses or water bodies</p> <p>☐ the position of any roads</p> <p>☐ the position of any area to be irrigated</p> <p>☐ Gravity diversion from a watercourse: Form 15 completed</p> <p>☐ the location of the proposed gravity diversion and any existing gravity diversion</p> <p>☐ lot boundaries and descriptions</p> <p>☐ existing licensed or permitted works</p> <p>☐ the position of any watercourses or water bodies</p> <p>☐ the position of any roads</p> <p>☐ the position of any area to be irrigated</p> <p>☐ details of any vegetation within the water body or watercourse proposed to be cleared</p> <p>☐ details of any filling or excavation proposed in the watercourse or water body</p>

☐ **WATER cont.**

Referable dams require dam
Failure impact assessment first.
If not provided return to region
for referral to Dam Safety

Quarry works applications must
be accompanied by a copy of the
Quarry Material Allocation Notice
(QMAN). Consent of the chief
executive is not required for this
type of application

Check WRP to see if regulated
And any Wild River requirements

For Wild River areas

- ☐ Referable dam: Form 16 completed
 - ☐ the location of the proposed water storage and any existing storage
 - ☐ lot boundaries and descriptions
 - ☐ existing licensed or permitted works
 - ☐ the position of any watercourses or water bodies
 - ☐ the position of any roads
 - ☐ details of any vegetation within the water body or watercourse proposed to be cleared
 - ☐ a copy of 'Notice Accepting a Failure Impact Assessment' from the chief executive of the Department of Environment and Resource Management
- ☐ Watercourse diversion: Form 17 completed
 - ☐ the location of the proposed water storage and any existing storage
 - ☐ lot boundaries and descriptions
 - ☐ existing licensed or permitted works
 - ☐ the position of any watercourses or water bodies
 - ☐ the position of any roads
 - ☐ the position of any area to be irrigated
 - ☐ a scaled plan showing design details of the proposed diversion
 - ☐ details of the proposed diversion including a description of any impacts on the existing watercourse or water body, or vegetation
 - ☐ details of any vegetation within the water body or watercourse proposed to be cleared
- ☐ Removal of quarry material from a watercourse: Form 18 completed
 - ☐ the location of the proposed work and any existing works for removing quarry material
 - ☐ lot boundaries and descriptions
 - ☐ existing licensed or permitted works
 - ☐ the position of any watercourses or water bodies
 - ☐ the position of any roads
 - ☐ operations plan
 - ☐ Copy of Quarry material allocation notice
- ☐ Taking overland flow: Form 19 completed
 - ☐ the location of the proposed work and any existing works for taking overland water
 - ☐ lot boundaries and descriptions
 - ☐ existing licensed or permitted works
 - ☐ the position of any watercourses or water bodies
 - ☐ the position of any roads
 - ☐ the position of any area to be irrigated
 - ☐ a copy of the notification acknowledgement letter containing the notification acknowledgement number for authorised taking of overland water
 - ☐ a certified report in accordance with schedule 1 of the Code for assessable development for operational works for taking overland flow water detailing the proposed location, extent and operation of all the proposed reconfigured works and proposed new works (not required if work for stock and domestic water use or rehabilitating degraded land)

For an application for capturing agricultural runoff

 - ☐ a copy of a land and water management plan approved under the Water Act 2000 or an industry best practice management audit

For an application for taking water required by an environmental authority or development permit

 - ☐ a copy of the relevant environmental authority or development permit
 - ☐ a report demonstrating:
 - ☐ how the proposed works meet the requirements of the environmental authority or development permit
 - ☐ how the proposed works minimise the taking of water

For an application for rehabilitating degraded land (applicable to the Warrego, Paroo, Bulloo or Nebine Water Resource Plan areas)

 - ☐ a certificate from a professional, qualified in soil science, stating the area concerned is degraded and the works be an appropriate method for rehabilitating the area
 - ☐ evidence the works are required under the Land Act 1994
 - ☐ evidence the works have been approved for funding under the Primary Industries Productivity Enhancement Landcare Loans Scheme
- ☐ Work in a watercourse not covered by Form 12 - 20: Form 21 completed
 - A sketch plan showing**
 - ☐ the location of the proposed work and any existing works for taking overland flow water
 - ☐ lot boundaries and descriptions
 - ☐ existing licensed or permitted works
 - ☐ the position of any watercourses or water bodies
 - ☐ the position of any roads
 - ☐ the position of any area to be irrigated
- ☐ Interfering with overland flow: Form 20 completed
 - ☐ the location of the proposed works and any existing works for interfering with overland flow water
 - ☐ lot boundaries and descriptions
 - ☐ existing licensed or permitted works
 - ☐ the position of any watercourses or water bodies
 - ☐ the position of any roads
 - ☐ the position of any area to be irrigated
 - ☐ hydrology report assessing the potential impact of the proposed works on any adjacent watercourse or water body and surrounding floodplain

☐ WATER cont.	<p>Declared catchment area (If lot created is less than 16ha)</p> <p>☐ Reconfiguring a Lot: Form 7 completed</p> <p>☐ Fee</p> <p>☐ Catchment area is NOT in the SEQ region (See SPA Contact list)</p> <p>FYI: If the Catchment area is in the SEQ region - Queensland Bulk Water Supply Authority ABN 75 450 239 876 trading as Seqwater is the concurrence agency.</p> <p>As DERM is not a concurrence agency the assessment manager will need to be notified.</p>
☐ WETLANDS	<p>Is the application for development for an urban purpose? Yes / No</p> <p>☐ Not domestic housing activity</p> <p>☐ Great Barrier Reef (GBR) Water Protection Act (WPA)</p> <p>☐ ROL (Must be ticked to be properly made)</p> <p>☐ More than 6 lots or any < 5 h</p> <p>☐ Op works involve High Impact Earthworks ☐ More than 100 m³</p> <p>☐ More than 1000 m³ (& more than 200m from the wetlands)</p> <p>☐ MCU (Must be ticked to be properly made)</p> <p>☐ Op Works involve High Impact Earthworks ☐ More than 100 m³</p> <p>☐ More than 1000 m³ (& more than 200m from the wetlands)</p> <p>☐ OP Works (Must be ticked to be properly made)</p> <p>☐ Op Works involve High Impact Earthworks ☐ More than 100 m³</p> <p>☐ More than 1000 m³ (& more than 200m from the wetlands)</p> <p>☐ Plans (Must be ticked to be properly made)</p> <p>☐ a survey plan or chart showing the location of the activity (including GPS coordinates and zone reference—GDA94 preferred) and important features in the surrounding area</p> <p>☐ a scaled site plan showing the details of the structures or works associated with the operational works including:</p> <ul style="list-style-type: none"> ☐ dimensions of the proposed works and any building envelopes and distance to the wetland and wetland buffer, drainage channels and lot boundaries <p>☐ the slope angles of the area that would abut or adjoin the proposed works and the finished level of the proposed works</p> <p>☐ the existing and proposed contours</p> <p>☐ the location and level of any permanent survey marks or reference stations used as datum for the works</p> <p>☐ the internal driveways/movement routes which vehicles will use during the works</p> <p>☐ the storage area of materials including earth associated with excavation or filling or construction (confirmed/not applicable)</p> <p>☐ the defined flood level (confirmed/not applicable)</p> <p>☐ the defined fill level (confirmed/not applicable)</p> <p>☐ Written Documentation (Must be ticked to be properly made)</p> <p>a. the hours of operation of construction and machinery and vehicles used</p> <p>b. the quantity of materials including earth associated with construction to be stored on site</p> <p>c. if an alternative mapped boundary of the wetland is proposed to satisfy a required outcome under the code, a map of the alternative boundary and assessment prepared in accordance with the code requirements (confirmed/not applicable)</p> <p>d. if an alternative wetland buffer width is proposed to satisfy a required outcome under the code, an assessment of the baseline ecological values of the site and potential impacts of the works used to determine and justify the alternative buffer width (confirmed/not applicable)</p> <p>e. if the proposal does not adopt the default wetland buffer width to satisfy a required outcome under the code, an assessment of the baseline ecological values of the site and potential impacts of the works (confirmed/not applicable)</p> <p>f. a hydrology report assessing the existing surface water regime and potential impact of the proposed works on the wetland to satisfy a required outcome under the code (confirmed/not applicable)</p> <p>g. a hydrology report assessing the existing ground water regime and potential impact of the proposed works on the wetland to satisfy a required outcome under the code (confirmed/not applicable)</p> <p>h. details of stormwater management and disposal required to satisfy a required outcome of the code (confirmed/not applicable)</p> <p>i. details of operational management measures during construction to satisfy a required outcome under the code including pest and invasive species and noise, light and visual disturbance. (confirmed/not applicable)</p>

Advice Triggers

☐ Wetlands - within 100m	☐ MCU assessable under planning scheme and any part of the land is in the wetland management area ☐ RaL – greater than 6 lots or any lot less than 5 ha, and any part of the land is in the wetland area.
☐ Conservation Estate - within 100m ☐ Protected area ☐ Forest reserve ☐ Critical habitat ☐ State forest ☐ Timber reserve ☐ Marine park ☐ Recreation area ☐ World heritage ☐ CCA ☐ Nature Refuge ☐ Brisbane Forest Park	☐ MCU for urban purposes ☐ RaL – greater than or equal to 10 lots or any lot created < 5ha
☐ Heritage - shares common boundary	☐ MCU assessable under the planning scheme ☐ RaL
☐ Acid Sulfate Soils	☐ MCU assessable under the planning scheme ☐ RaL ☐ Operational Works ☐ Building work assessable under the planning scheme

DERM Interests (tick for applicable) (**Bold** denotes mapped on EcoMaps please check at regional level until new layers added)

☐ Acid Sulfate Soil	☐ Good Quality Agricultural Land	☐ Removal of Quarry Material
☐ Coastal Building Line	☐ Groundwater	☐ Salinity
☐ Coastal Management District	☐ Koala Habitat Areas	☐ Soil Health
☐ Declared Sub Artesian	☐ Landslide	☐ Soil Conservation
☐ Declared Catchments Area	☐ Marine Parks	☐ State Land
☐ Drainage and Embankment	☐ Marine Plants	☐ Stock Routes
☒ EMR or CLR (continuing activity)	☐ Nature Refuges	☐ Surface Water
☐ EPA Referrable Wetland	☐ Notifiable activity	☐ Taking/Interfering with water
☐ Erosion prone areas	☐ Native Vegetation	☐ Water Quality (Surface)
☐ Fish Habitat Areas	☐ Protected Areas	☐ Wild Rivers
☐ Flood plain Management	☐ Referable Dam	☐ Wetland Management Area
☐ Other		

Receipt Details: Fees Correct ☐ N/A ☐

Receipt No. 3953316 Date: 21/12/10 27/5/09

Amount Paid \$ 333.00 IN 212824

Receipt sent to client Yes ☐ No ☐ \$11,100 cheque

Portable Long Service Leave Paid Yes ☐ No ☐

(the Building and Construction Industry (Portable Long Service Leave) Act 1991 requires the levy to be paid before a development permit is issued)

18-112

File A

Payment Method:

Cheque ☐ EFT ☐

Cash ☐ Credit ☐

Cheque No.

Drawer:

Copy of Receipt attached ☐ Page 718 of 940

R

DATE 13/12/10	Person Contacted:	CTPI 49-Sch4-Name	Phone No:
	Information Requested: All supporting information at district. Copy never received here.		
	Response: Advised applicant applied previously & withdrew application - these fees (\$11,000) not refunded use these & obtain balance from applicant.		
	PALM Contact: Denise		

DATE 14/12/10	Person Contacted:	CTPI 49-Sch4-Name	Phone No:
	Information Requested: Balance of fees \$333		
	Response: [CTPI 49-Sch4-Name]@ghd.com all of office sent email regarding balance of fees.		
	PALM Contact: Denise		

DATE	Person Contacted:	Phone No:
	Information Requested:	
	Response:	
	PALM Contact:	

ADDITIONAL NOTES

Karle Matt

From: Karle Matt
Sent: Wednesday, 21 December 2011 11:49 AM
To: 'Michael Grant'
Cc: 'Tanya.Allen@gympie.qld.gov.au'; 'ian.wolff@gympie.qld.gov.au'
Subject: FW: Asbestos Disposal Prohibited condition - Bonnick Road Landfill Gympie
Attachments: Bonnick Road - Draft conditions

Hello Michael,

I am responding to concerns raised by Queensland Health about asbestos limitations in the Draft Bonnick Road Landfill conditions provided to Gympie Regional Council recently for consideration and discussion.

Where council has concerns about aspects of the Draft, can I please encourage Council to contact DERM in the first instance? As mentioned when the Draft was provided, it was provided expeditiously to afford consideration of the draft by council staff departing on Christmas leave, before the (now superseded) decision due date of the 16th December 2011.

As the decision due date is now 31st January 2012, I anticipate an approach from council to discuss aspects of the Draft in the new year, and welcome any discussion council may raise about asbestos management within the shire and as required for this site.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Dylan Walker [mailto:Dylan_Walker@health.qld.gov.au]
Sent: Monday, 19 December 2011 12:01 PM
To: Eskdale Ian
Cc: Clive Paige
Subject: Fwd: Asbestos Disposal Prohibited condition - Bonnick Road Landfill Gympie

Hi Ian,

I've recently been informed that DERM intends to condition an approval for a proposed local government landfill so that it cannot receive asbestos (please see below and attached). The condition appears to be part of a standard condition included in similar approvals.

R

Based on our recent discussions, my understanding was that DERM did not condition the prohibition of asbestos disposal and it was left to the local government to decide this. I recognise the use and application of "limited regulated waste" in the conditions, but I am concerned about the use of the specific prohibition as it could have significant consequences. This particularly so in areas where there are very few, if any, legal disposal alternatives to the local government's landfill.

Could you confirm if this is a standard condition, why a specific asbestos prohibition is being considered and who I could contact to discuss further please?

Thanks

Dylan

>>> Greg Blumke 16/12/2011 10:12 am >>>

Dear Dylan

I refer to our conversation of yesterday. Please see attached correspondence from EHO Tanya Allen, Gympie Regional Council.

As you will read in the attachments, DERMs standard condition relative asbestos waste material and Landfill reads as follows:-

(E1-6) Notwithstanding any condition of this approval, you shall not cause, permit or allow deposition of the following waste materials in the landfill unit:

- liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity;
- hot ash;
- material that is smouldering or aflame;
- material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises);
- radioactive wastes;
- explosives;
- ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction;
- tyres;
- **asbestos;**
- contaminated soil;
- treatment tank sludge or residues;
- biosolids;
- grease trap wastes; and
- green waste

Your assistance in addressing this issue would be appreciated.

Regards

CTPI 49-Sch4-Signature

Advanced Environmental Health Officer
Sunshine Coast Public Health Unit

Central Regional Services
Governance and Capability
Division of Chief Health Officer
Queensland Health
PO Box 577
MAROOCHYDORE QLD 4558

Ph: 07 5409 6603
Fax: 07 5443 5488
Email: Greg_Blumke@health.qld.gov.au

Business hours Mon - Fri 8.30 am - 5.00 pm

Out of hours calls may be made to "State Environmental Health On-Call Officer" Ph: 1800 128 962

>>> "Tanya Allen" < > 15/12/2011 5:30 pm >>>
Dear Greg

ENVIRONMENTAL CONDITIONS PROHIBITING DISPOSAL OF ASBESTOS AT BONNICK ROAD LANDFILL IN GYMPIE

I refer to our recent telephone conversations. Council is currently applying for a development permit to extend landfilling operations at its main regional landfill and only landfill in Gympie - Bonnick Road Landfill.

This is the only site in the region where we accept asbestos for disposal by appointment. This is because -

- it is central and can be accessed by disposers and us easily,
- it is manned full time,
- it has a full time plant operator on-site
- asbestos is accepted by appointment only so that Council can devote resources to it to bury it immediately when it comes in

Council has received through from DERM draft conditions for the new landfill cell. Council has concerns in particular about condition E1-6 which prohibits the landfilling of asbestos.

If Council is unable to bury asbestos in Gympie, I believe this will result in illegal dumping around Gympie, unsafe disposal (ie. on the tip face, in bulk bins or wheelie bins), or asbestos waste left at home wrapped up in the back of sheds etc.

Council is concerned that the other nearest landfills (at Tin Can Bay and Gunalda) are too far from Gympie to expect people to drive, and these landfills are not manned full-time. It is also a lot to ask for a home renovator to drive a tiny amount all the way to the hazardous waste landfill at Swanbank in Brisbane.

My initial inquiry to you was whether this condition was part of a campaign by the Queensland Government to prohibit asbestos disposal at regional landfills, and Council's question, if so, was how are we to dispose of asbestos waste? This Council believes that immediate burial at a supervised landfill is the safest option for disposal in regional areas.

I note your advice that you are unaware of any push like this. I appreciate you looking into this matter further for me. As discussed it appears that this condition is a standard DERM condition, which is concerning.

Please do not hesitate to contact me to discuss the matter on (07) 5481 0611. Council will shut-down for Christmas on 23/12/2011 and reopen on 2/01/2012, however I will be on holidays until 16/01/2012. In my absence, you can speak to Ian Wolff about this matter.

Hope you have a relaxing holiday break and see you in 2012!

R

Kind Regards

Tanya Allen

Cadet Environmental Health Officer | Health & Environmental Services | Community Services
Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
24 Mellor Street, Gympie QLD 4570
PO Box 155 Gympie QLD 4570
e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au

 Please consider the environment before printing this email
1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

This email, including any attachments sent with it, is confidential and for the sole use of the intended recipient(s). This confidentiality is not waived or lost, if you receive it and you are not the intended recipient(s), or if it is transmitted/received in error.

Any unauthorised use, alteration, disclosure, distribution or review of this email is strictly prohibited. The information contained in this email, including any attachment sent with it, may be subject to a statutory duty of confidentiality if it relates to health service matters.

If you are not the intended recipient(s), or if you have received this email in error, you are asked to immediately notify the sender by telephone collect on Australia +61 1800 198 175 or by return email. You should also delete this email, and any copies, from your computer system network and destroy any hard copies produced.

If not an intended recipient of this email, you must not copy, distribute or take any action(s) that relies on it; any form of disclosure, modification, distribution and/or publication of this email is also prohibited.

Although Queensland Health takes all reasonable steps to ensure this email does not contain malicious software, Queensland Health does not accept responsibility for the consequences if any person's computer inadvertently suffers any disruption to services, loss of information, harm or is infected with a virus, other malicious computer programme or code that may occur as a consequence of receiving this email.

Unless stated otherwise, this email represents only the views of the sender and not the views of the Queensland Government.

R

Karle Matt

From: Oakley Richard
Sent: Wednesday, 21 December 2011 9:58 AM
To: Karle Matt
Subject: FW: Asbestos Disposal Prohibited condition - Bonnick Road Landfill Gympie
Attachments: Bonnick Road - Draft conditions
 Hope this sheds a light on it!

regards

Richard Oakley

Strategic Compliance
 Environmental Performance and Coordination
 Environment and Natural Resource Regulation, DERM
Telephone: CTPI 49-Sch4-Mo
Facsimile: 07 3381 7560
 email richard.oakley@derm.qld.gov.au
 www.derm.qld.gov.au

From: Eskdale Ian
Sent: Tuesday, 20 December 2011 9:42 AM
To: Oakley Richard
Cc: Ameer Omar
Subject: FW: Asbestos Disposal Prohibited condition - Bonnick Road Landfill Gympie

Hi Richard

The e-mail message below is fairly self-explanatory – it relates to Queensland Health concerns that there might be a standard landfill condition that prohibits the acceptance of asbestos waste.

I understand that you are reviewing the landfill guidelines and I welcome your views on this matter.

Thanks and regards.

 Ian Eskdale
 Environment and Natural Resource Regulation Division
 Qld Department of Environment and Resource Management
 Tel: (07) 3330 5734
 Fax: (07) 3330 5754
 Web site: <http://www.derm.qld.gov.au>

From: Dylan Walker [mailto:Dylan_Walker@health.qld.gov.au]

Sent: Monday, 19 December 2011 12:01 PM

To: Eskdale Ian

Cc: Clive Paige

Subject: Fwd: Asbestos Disposal Prohibited condition - Bonnick Road Landfill Gympie

Hi Ian,

I've recently been informed that DERM intends to condition an approval for a proposed local government landfill so that it cannot receive asbestos (please see below and attached). The condition appears to be part of a standard condition included in similar approvals.

Based on our recent discussions, my understanding was that DERM did not condition the prohibition of asbestos disposal and it was left to the local government to decide this. I recognise the use and application of "limited regulated waste" in the conditions, but I am concerned about the use of the specific prohibition as it could have significant consequences. This particularly so in areas where there are very few, if any, legal disposal alternatives to the local government's landfill.

Could you confirm if this is a standard condition, why a specific asbestos prohibition is being considered and who I could contact to discuss further please?

Thanks

Dylan

>>> Greg Blumke 16/12/2011 10:12 am >>>

Dear Dylan

I refer to our conversation of yesterday. Please see attached correspondence from EHO Tanya Allen, Gympie Regional Council.

As you will read in the attachments, DERMs standard condition relative asbestos waste material and Landfill reads as follows:-

(E1-6) Notwithstanding any condition of this approval, you shall not cause, permit or allow deposition of the following waste materials in the landfill unit:

- liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity;
- hot ash;
- material that is smouldering or aflame;
- material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises);
- radioactive wastes;
- explosives;
- ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction;
- tyres;
- **asbestos;**
- contaminated soil;
- treatment tank sludge or residues;
- biosolids;
- grease trap wastes; and
- green waste

Your assistance in addressing this issue would be appreciated.

Regards

R

CTPI 49-Sch4-Signature

Advanced Environmental Health Officer
 Sunshine Coast Public Health Unit
 Central Regional Services
 Governance and Capability
 Division of Chief Health Officer
 Queensland Health
 PO Box 577
 MAROOCHYDORE QLD 4558

Ph: 07 5409 6603

Fax: 07 5443 5488

Email: Greg.Blumke@health.qld.gov.au

Business hours Mon - Fri 8.30 am - 5.00 pm

Out of hours calls may be made to "State Environmental Health On-Call Officer" Ph: 1800 128 962

>>> "Tanya Allen" <Tanya.Allen@gympie.qld.gov.au> 15/12/2011 5:30 pm >>>

Dear Greg

ENVIRONMENTAL CONDITIONS PROHIBITING DISPOSAL OF ASBESTOS AT BONNICK ROAD LANDFILL IN GYMPIE

I refer to our recent telephone conversations. Council is currently applying for a development permit to extend landfilling operations at its main regional landfill and only landfill in Gympie - Bonnick Road Landfill.

This is the only site in the region where we accept asbestos for disposal by appointment. This is because -

- it is central and can be accessed by disposers and us easily,
- it is manned full time,
- it has a full time plant operator on-site
- asbestos is accepted by appointment only so that Council can devote resources to it to bury it immediately when it comes in

Council has received through from DERM draft conditions for the new landfill cell. Council has concerns in particular about condition E1-6 which prohibits the landfilling of asbestos.

If Council is unable to bury asbestos in Gympie, I believe this will result in illegal dumping around Gympie, unsafe disposal (ie. on the tip face, in bulk bins or wheelie bins), or asbestos waste left at home wrapped up in the back of sheds etc.

Council is concerned that the other nearest landfills (at Tin Can Bay and Gungalda) are too far from Gympie to expect people to drive, and these landfills are not manned full-time. It is also a lot to ask for a home renovator to drive a tiny amount all the way to the hazardous waste landfill at Swanbank in Brisbane.

My initial inquiry to you was whether this condition was part of a campaign by the Queensland Government to prohibit asbestos disposal at regional landfills, and Council's question, if so, was how are we to dispose of asbestos waste? This Council believes that immediate burial at a supervised landfill is the safest option for disposal in regional areas.

I note your advice that you are unaware of any push like this. I appreciate you looking into this matter

further for me. As discussed it appears that this condition is a standard DERM condition, which is concerning.

Please do not hesitate to contact me to discuss the matter on (07) 5481 0611. Council will shut-down for Christmas on 23/12/2011 and reopen on 2/01/2012, however I will be on holidays until 16/01/2012. In my absence, you can speak to Ian Wolff about this matter.

Hope you have a relaxing holiday break and see you in 2012!

Kind Regards

Tanya Allen

Cadet Environmental Health Officer | Health & Environmental Services | Community Services

Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
24 Mellor Street, Gympie QLD 4570
PO Box 155 Gympie QLD 4570

e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au

 Please consider the environment before printing this email
1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

This email, including any attachments sent with it, is confidential and for the sole use of the intended recipient(s). This confidentiality is not waived or lost, if you receive it and you are not the intended recipient(s), or if it is transmitted/received in error.

Any unauthorised use, alteration, disclosure, distribution or review of this email is strictly prohibited. The information contained in this email, including any attachment sent with it, may be subject to a statutory duty of confidentiality if it relates to health service matters.

If you are not the intended recipient(s), or if you have received this email in error, you are asked to immediately notify the sender by telephone collect on Australia +61 1800 198 175 or by return email. You should also delete this email, and any copies, from your computer system network and destroy any hard copies produced.

If not an intended recipient of this email, you must not copy, distribute or take any action(s) that relies on it; any form of disclosure, modification, distribution and/or publication of this email is also prohibited.

Although Queensland Health takes all reasonable steps to ensure this email does not contain malicious software, Queensland Health does not accept responsibility for the consequences if any person's computer inadvertently suffers any disruption to services, loss of information, harm or is infected with a virus, other malicious computer programme or code that may occur as a consequence of receiving this email.

R

Unless stated otherwise, this email represents only the views of the sender and not the views of the Queensland Government.

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Postmaster@gympie.qld.gov.au on behalf of Ian Wolff [Ian.Wolff@gympie.qld.gov.au]
Sent: Wednesday, 21 December 2011 11:50 AM
To: Karle Matt
Subject: Re: FW: Asbestos Disposal Prohibited condition - Bonnick Road Landfill Gympie (I AM ON ANNUAL LEAVE UNTIL TUESDAY, 3 JANUARY 2012)

Thankyou for your e-mail.

Please be advised that I am on annual leave until Tuesday, 3 January 2012.

Any inquiries pertaining to Health and Environmental Services matters may be directed to Mr Paul Lofts (Acting Coordinator Health and Environmental Services) on telephone (07) 5481 0611.

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 12/21/11 11:48 >>>

Hello Michael,

I am responding to concerns raised by Queensland Health about asbestos limitations in the Draft Bonnick Road Landfill conditions provided to Gympie Regional Council recently for consideration and discussion.

Where council has concerns about aspects of the Draft, can I please encourage Council to contact DERM in the first instance? As mentioned when the Draft was provided, it was provided expeditiously to afford consideration of the draft by council staff departing on Christmas leave, before the (now superseded) decision due date of the 16th December 2011.

As the decision due date is now 31st January 2012, I anticipate an approach from council to discuss aspects of the Draft in the new year, and welcome any discussion council may raise about asbestos management within the shire and as required for this site.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Dylan Walker [mailto:Dylan.Walker@health.qld.gov.au]

Sent: Monday, 19 December 2011 12:01 PM

To: Eskdale Ian

Cc: Clive Paige

Subject: Fwd: Asbestos Disposal Prohibited condition - Bonnick Road Landfill Gympie

Hi Ian,

I've recently been informed that DERM intends to condition an approval for a proposed

local government landfill so that it cannot receive asbestos (please see below and attached). The condition appears to be part of a standard condition included in similar approvals.

Based on our recent discussions, my understanding was that DERM did not condition the prohibition of asbestos disposal and it was left to the local government to decide this. I recognise the use and application of "limited regulated waste" in the conditions, but I am concerned about the use of the specific prohibition as it could have significant consequences. This particularly so in areas where there are very few, if any, legal disposal alternatives to the local government's landfill.

Could you confirm if this is a standard condition, why a specific asbestos prohibition is being considered and who I could contact to discuss further please?

Thanks

Dylan

>>> Greg Blumke 16/12/2011 10:12 am >>>

Dear Dylan

I refer to our conversation of yesterday. Please see attached correspondence from EHO Tanya Allen, Gympie Regional Council.

As you will read in the attachments, DERMs standard condition relative asbestos waste material and Landfill reads as follows:-

(E1-6) Notwithstanding any condition of this approval, you shall not cause, permit or allow deposition of the following waste materials in the landfill unit:

- liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity;
- hot ash;
- material that is smouldering or aflame;
- material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises);
- radioactive wastes;
- explosives;
- ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction;
- tyres;
- asbestos;
- contaminated soil;
- treatment tank sludge or residues;
- biosolids;
- grease trap wastes; and
- green waste

Your assistance in addressing this issue would be appreciated.

R

Regards

Greg Blumke
Advanced Environmental Health Officer
Sunshine Coast Public Health Unit
Central Regional Services
Governance and Capability
Division of Chief Health Officer
Queensland Health
PO Box 577
MAROOCHYDORE QLD 4558

Ph: 07 5409 6603

Fax: 07 5443 5488

Email: Greg_Blumke@health.qld.gov.au

Business hours Mon - Fri 8.30 am - 5.00 pm

Out of hours calls may be made to "State Environmental Health On-Call Officer" Ph: 1800 128 962

>>> "Tanya Allen" < > 15/12/2011 5:30 pm >>>

Dear Greg

ENVIRONMENTAL CONDITIONS PROHIBITING DISPOSAL OF ASBESTOS AT BONNICK ROAD LANDFILL IN GYMPIE

I refer to our recent telephone conversations. Council is currently applying for a development permit to extend landfilling operations at its main regional landfill and only landfill in Gympie - Bonnick Road Landfill.

This is the only site in the region where we accept asbestos for disposal by appointment. This is because -

- * it is central and can be accessed by disposers and us easily,
- * it is manned full time,
- * it has a full time plant operator on-site
- * asbestos is accepted by appointment only so that Council can devote resources to it to bury it immediately when it comes in

Council has received through from DERM draft conditions for the new landfill cell. Council has concerns in particular about condition E1-6 which prohibits the landfilling of asbestos.

If Council is unable to bury asbestos in Gympie, I believe this will result in illegal dumping around Gympie, unsafe disposal (ie. on the tip face, in bulk bins or wheelie bins), or asbestos waste left at home wrapped up in the back of sheds etc.

Council is concerned that the other nearest landfills (at Tin Can Bay and Gunalda) are too far from Gympie to expect people to drive, and these landfills are not manned full-time. It is also a lot to ask for a home renovator to drive a tiny amount all the way to the hazardous waste landfill at Swanbank in Brisbane.

My initial inquiry to you was whether this condition was part of a campaign by the Queensland Government to prohibit asbestos disposal at regional landfills, and Council's question, if so, was how are we to dispose of asbestos waste? This Council believes that immediate burial at a supervised landfill is the safest option for disposal in regional areas.

I note your advice that you are unaware of any push like this. I appreciate you looking into this matter further for me. As discussed it appears that this condition is a standard DERM condition, which is concerning.

Please do not hesitate to contact me to discuss the matter on (07) 5481 0611. Council will shut-down for Christmas on 23/12/2011 and reopen on 2/01/2012, however I will be on holidays until 16/01/2012. In my absence, you can speak to Ian Wolff about this matter.

Hope you have a relaxing holiday break and see you in 2012!

Kind Regards

Tanya Allen
 Cadet Environmental Health Officer | Health & Environmental Services | Community Services
 Telephone: 07 5481 0611 | Facsimile: 07 5481 0801

Gympie Regional Council
 24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570

e-mail: tanya.allen@gympie.qld.gov.au
<mailto:tanya.allen@gympie.qld.gov.au> | www.gympie.qld.gov.au
<http://www.gympie.qld.gov.au/>

P| Please consider the environment before printing this email

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

This email, including any attachments sent with it, is confidential and for the sole use of the intended recipient(s). This confidentiality is not waived or lost, if you receive it and you are not the intended recipient(s), or if it is transmitted/received in error.

Any unauthorised use, alteration, disclosure, distribution or review of this email is strictly prohibited. The information contained in this email, including any attachment sent with it, may be subject to a statutory duty of confidentiality if it relates to health service matters.

If you are not the intended recipient(s), or if you have received this email in error, you are asked to immediately notify the sender by telephone collect on Australia +61 1800 198 175 or by return email. You should also delete this email, and any copies, from your computer system network and destroy any hard copies produced.

If not an intended recipient of this email, you must not copy, distribute or take any action(s) that relies on it; any form of disclosure, modification, distribution and/or publication of this email is also prohibited.

Although Queensland Health takes all reasonable steps to ensure this email does not contain malicious software, Queensland Health does not accept responsibility for the consequences if any person's computer inadvertently suffers any disruption to services, loss of information, harm or is infected with a virus, other malicious computer programme or code that may occur as a consequence of receiving this email.

Unless stated otherwise, this email represents only the views of the sender and not the views of the Queensland Government.

R



Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

① MK
② ~~SH~~
③ MW

Chelle - agreeable?
Yes

RECEIVED

27 JUN 2011

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

Our Ref: 2-9-13-0003 MRG:VMK01396

22nd June 2011

Regional Manager of Environmental Services
Department of Environmental and Resource Management
PO Box 101
MARYBOROUGH QLD 4570

Dear Sir

**RE: INFORMATION REQUEST –
REDEVELOPMENT OF THE BONNICK
ROAD WASTE MANAGEMENT FACILITY
LOT 542 MCH 801883**

I refer to the above matter and confirm that Council requests an extension to the period in which to respond to the information request of two (2) months. This additional period is required to finalise the information request by DERM.

Should you require any further information, please contact Council's Mr Michael Grant, Community Services Directorate on (07)5481 0611.

Yours faithfully

CTPI 49-Sch4-Signature

for C MANSON
ACTING CHIEF EXECUTIVE OFFICER

Karle Matt

From: Karle Matt
Sent: Thursday, 22 September 2011 10:51 AM
To: ian.wolff@gympie.qld.gov.au
Cc: michael.grant@gympie.qld.gov.au; Wright Michelle
Subject: Bonnick Road Landfill
Importance: High

Hello Ian.

I understand that Michael Grant is currently on leave. In Michael's absence, I need to discuss some correspondence that was received from Gympie Regional Council on 16th September 2011, dated 14th September 2011 (your reference 2-9-01-0002MG:CMK01045).

The letter refers to DERM information request dated 27th January 2011 and confirms that councils response to the information request is attached (to that correspondence) for our assessment. There were 2 x attachments, both of which are clearly marked as being 'DRAFT'.

The cover letter requests a meeting with DERM to discuss the responses, and invites the reader to contact Michael to arrange a suitable date and time.

Of primary importance (due to statutory time frames), please confirm whether the material received with this cover letter, marked 'DRAFT', is Council's response to the information request. If that material is Council's reply, then the current decision due date for the application is 14th October 2011 (subject to extension if required). If that material is not Council's response to the information request, then it is important that council note the information request response period lapses on 27th September 2011. A response to the information request is required before that date to keep the application valid / current.

Regarding Michaels for a meeting, allocation of this project to an officer has not yet occurred due to workload volumes in this team. The officer involved in the information request stage is on secondment to another business unit. If a meeting is desired urgently, DERM will make necessary arrangements, however if a meeting is not proposed until after Michael returns to work, please request Michael to contact DERM to propose a meeting time.

I look forward to hearing from you in relation to the submission received at your earliest convenience.

Regards

Matt Karle
A / Manager (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au



Karle Matt

From: Oakley Richard
Sent: Thursday, 22 September 2011 11:19 AM
To: Karle Matt
Cc: Blanchard Scott; Riese Ralph
Subject: RE: Gympie Regional Council
 Hi Matt

as per chat happy to assist where I can and if needed , as agreed the ball is in your court I will leave it with you and the team to commence assessment of the info received and if there is anything that I may be able to help with in terms of interpretation / explanation etc you will let me know and I will discuss with Ralph re work planning arrangements and implications before I take it on.

I am aware there is the response to the Vicky Darling to be prepared but again will leave that with you and the team.

Have a great weekend , take care

Richard Oakley
 Principal Environmental Officer
 Compliance and Investigations
 South East Region
 Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-Mob
Facsimile: 07 3381 7560
 email richard.oakley@derm.qld.gov.au
 www.derm.qld.gov.au

From: Oakley Richard
Sent: Monday, 19 September 2011 12:03 PM
To: Karle Matt
Cc: Blanchard Scott
Subject: RE: Gympie Regional Council

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request? Yes I certainly did have a hand in the info request, working with Tim and Michelle at the time, I was only wondering what had happened to the site the other day, I had heard rumblings a few months ago the GRC were not happy about some of the IR requirements and was expecting to the need to explain further and justify but it never came. Are they now at the stage they have done the necessary and looking to progress.

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Lucky you, Are you aware of any agreement or procedure for handling of the application now the information request has come in? No agreement or procedure as such to my knowledge, you may wish to raise it with Scott Blanchard all the same.

I would be happy to help if I can /could , the snag may now be that I am currently not in Env Services as I am working on a project (landfill related) for a spell with the Compliance and Investigations team, so my "availability" is limited (or zero) to say the very least if that is what you were enquiring about.

I do fully understand where you may be coming from in terms of the need to perhaps review what has been sent back in response and suggest you start with Scott B and I will wait to hear back before even mentioning it to my current line manager Ralph Riese.

best wishes

Richard Oakley
Principal Environmental Officer
Compliance and Investigations
South East Region
Department of Environment and Resource Management
Telephone: CTPI 49-Sch4-Mobi
Facsimile: 07 3381 7560
email richard.oakley@derm.qld.gov.au
www.derm.qld.gov.au

From: Karle Matt
Sent: Monday, 19 September 2011 11:39 AM
To: Oakley Richard
Subject: Gympie Regional Council

Hi Richard, Hows things?

We have here a response to Information request regarding Bonnick Road Landfill. I understand you might have done the information request?

Our Manager Tim Brain is currently away on leave, and I am (reluctantly) in his role. Are you aware of any agreement or procedure for handling of the application now the information request has come in?

Regards

Matt Karle
A / Manager (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Wright Michelle
Sent: Thursday, 22 September 2011 11:12 AM
To: Brain Tim (DERM); Karle Matt
Subject: Complaints finalised FYI

Hi there

FYI I have finalised 7 complaints (8 complainants) against the Bonnick Road Landfill (noise, dust, odour). I discussed Gympie council's response and action plans with 7 of the complainants and they seemed appeased. I asked specifically whether they had any recent (in last few months) nuisance issues with noise, dust and odour from the site. Apart from occasional odour which hasn't been a nuisance, they all said things were ok/good and all thanked the department for their follow up. I couldn't get hold of the 8th complainant so left a message and based on the testimony of the others I had spoken to that morning I closed that complaint too.

Let's hope council keeps up the good work!

Michelle

Michelle Wright
Senior Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management

Switchboard: (07) 4121 1800 **Direct telephone:** (07) 4121 1853 **Facsimile:** (07) 4121 1650

Email: Michelle.Wright@derm.qld.gov.au

Website: www.derm.qld.gov.au

Cnr Alice and Lennox Streets, Maryborough, Qld 4650
P.O. Box 101, Maryborough, Qld 4650



Karle Matt

From: ministererm.corro@derm.qld.gov.au

Sent: Friday, 23 September 2011 1:28 PM

To: Karle Matt

Subject: For your Approval : Due: 28/09/11 16697/11 Concerning: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that ap

Item Number 16697/11 has been actioned by Wright Michelle and is submitted for your approval.

They have supplied the following comments: .

This is due on or before 28/09/11.

Item Details

Document Type: Min - Request for Reply and Brief

Concerning: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that application is thoroughly investigated

Final due date: 28/09/11

You should either:

1. Approve the draft or select the EC Approve Button.
2. Press 'Reject' to return if further work is required (please provide comments).

Please click on the [Item Link](#) to view the Min - Request for Reply and Brief

If you have any queries please contact Wright Michelle or officers from Minister Environment by emailing to ministererm.corro@derm.qld.gov.au or via the link [Management Team Link](#).

email: EmailApplyApproval

Karle Matt

From: David Antoine
Sent: Wednesday, 23 November 2011 10:15 AM
To: Karle Matt
Cc: Khan Suhail
Subject: RE: Noise enquiry - L90 & L10
Attachments: Landfill Bonnick Road Gympie2.doc

Hi Matt,

Please find attached my notes to answer your question.

Please feel free to give me a call if you need clarifications.

Regards

Antoine

Dr. Antoine David Ph.D. M.Eng. M.A.A.S.
 Principal Environmental Officer
 Project Support
Telephone 07 3330 5574
Email antoine.david@derm.qld.gov.au
www.derm.qld.gov.au

Department of Environment and Resource Management
 41 George Street, Brisbane Q 4000
 GPO Box 2454, Brisbane Q 4001

From: Karle Matt
Sent: Monday, 21 November 2011 5:02 PM
To: David Antoine
Cc: Khan Suhail
Subject: Noise enquiry - L90 & L10

Antoine,

Thanks for the discussion earlier today.

As mentioned, we have received an application for a landfill extension and a new transfer station adjacent to Bonnick Road, Gympie. The site currently hosts an existing landfill. A neighbour owns about 7ha of potentially urban land and has strongly objected to the proposal (particularly the transfer station) as the location of the transfer station on the lot is close to his land. He engaged TTM consultants to do a noise assessment for him, which I have saved to T drive at the following location:

T:\City\Antoine David

My concern is that TTM have undertaken unattended noise monitoring; have obtained a low daytime L90 of 39dB(A); and referring to the DA for the existing landfill establish an authorised L10 of only 44dB(A). This seems to be to be an unreasonable conclusion, particularly given the unattended daytime noise monitoring determined an Leq of 52dB(A) and an L10 of 54dB(A). Given Leq is so close to L10, L90 seems to be an unreasonably quiet descriptor of the ambient environment. Given it was unattended monitoring, there is no advice about ambient noises that may have contributed to the Leq or L10.

The info below is from the current DA for the existing landfill:

R

Schedule 2D - Table 1**Time period Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure****Level L_A , max adj T***Note 1*

7am - 6pm Background noise level plus 5 dB(A)

6pm - 10pm Background noise level plus 5 dB(A)

10pm - 7am Background noise level plus 3 dB(A)

Time period Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure**Level L_A , max adj T**

7am - 6pm Background noise level plus 10 dB(A)

6pm - 10pm Background noise level plus 10 dB(A)

10pm - 7am Background noise level plus 8 dB(A)

Note 1: L_A 10, adj, 15 mins levels may be substituted for L_{Amax} , adj, 15 mins levels if evidence is provided that L_A 10, adj, 15 mins levels are representative of component noise levels from source(s)/premises under investigation.

There is no definition for background noise level measurements in the DA.

My question to you is:

Is it reasonable / unreasonable to undertake unattended monitoring; obtain results that span from L90 39dB(A) to L10 54dB(A); to then say L90 is the background and the authorised L10 is 44dB(A), particularly when the Leq and L10 are so close at 52dB(A) and 54dB(A)? I doubt many operators would ever comply with such a limit.

It seems to me the consultant has taken the quietest result (L90) and determined an unachievable compliance limit for the client, which they would never comply with. I'd have thought attended monitoring to better describe the difference between L90 and Leq would be essential, and that the compliance limit for the client may well be a lot higher than 44dB(A)?

Any advice from you about the above discussion would be greatly appreciated.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Review of Acoustics Criteria in TTM acoustics report

“Environmental Noise Impact Assessment Proposed Waste Transfer Facility Bonnick Road, Gympie

By Dr. Antoine David Ph.D. M.Eng. M.A.A.S.
Principal Environmental Officer
Project Support
Telephone 07 3330 5574
Email antoine.david@derm.qld.gov.au

1 Legislative framework

Note should be given in the TTM report of the guideline ERA 75

Ecoaccess Guideline ERA 75 Waste Disposal section 4.3 – Noise Issues

Landfill operations generally involve noisy plant and equipment and may impact detrimentally on the amenity of surrounding areas. Sources of noise at a landfill include truck noise (body, engine and exhaust), reversing beepers (see the EPA operational policy *Investigation of complaints of reversing beeper noise*), external telephone bells, and mobile machinery and equipment used for resource recovery operations such as concrete crushing equipment.

If the noise impact from the activity is likely to cause annoyance at any noise sensitive place, site specific background noise must be established and noise impact assessed using a recognised noise model as part of an application for a development approval.

To ascertain compliance with noise limits prescribed in the development approval, site operations may be required to introduce measures to minimise noise impacts by using natural and/or constructed features such as:

- fitting and maintaining appropriate mufflers on equipment;
- building enclosures around noisy fixed equipment;
- providing adequate noise attenuation screening;
- earthen bunds and depressions;
- minimising steep-haul roads; and
- restricting the hours of operation for noisy operations such as traffic, earth moving, landfill construction, waste transfer/disposal and landfill rehabilitation.

The main legislation remain EPP2008

Noise EPP 2008

The noise Environmental Protection (Noise) Policy 2008 (Noise EPP 2008) defines acoustics objectives for day time

Sensitive Receptor	LAeq,adj,1hr	LA10,adj,1hr	LA1,adj,1hr
Outside a dwelling	50	55	65
Inside a dwelling	35	40	45

Current EPA License Condition Schedule 2D Table 1

Schedule 2D Table 1

Time Period	Noise limit at a residential place, Sound Pressure Level dB(A) $L_{Amax,adj,T}$
7am - 6pm	Background noise level plus 5 dB(A)
6pm - 10pm	Background noise level plus 5 dB(A)
10pm - 7am	Background noise level plus 3 dB(A)
Time Period	Noise limit at a commercial place, Sound Pressure Level dB(A) $L_{Amax,adj,T}$
7am - 6pm	Background noise level plus 10 dB(A)
6pm - 10pm	Background noise level plus 10 dB(A)
10pm - 7am	Background noise level plus 8 dB(A)

Note 1: $L_{A10,adj,15min}$ levels may be substituted for $L_{Amax,adj,15min}$ levels if evidence is provided that $L_{A10,adj,15min}$ levels are representative of component noise levels from source(s)/premises under investigation.

2 Measured noise levels

Table 1 in TTM report gives the measured ambient noise levels 75m away from Bonnick Road

Table 1: Measured ambient noise levels

Time Period	Noise Measurement Descriptor	Measured Noise Level, dB(A)
7am to 6pm	L10	54
	Leq	52
	L90	39
6pm to 10pm	L10	44
	Leq	51
	L90	39
10pm to 7am	L10	42
	Leq	44
	L90	34

R

3 Analysis

The analysis given in TTM report has been to use the L90 which is the residual background noise and use this measurement as opposed those of LAmax or LA10.

As specified in Note 1 of the license condition,

“LA10,adj,15mins may be substituted for LAmax,adj,15min levels if evidence is provided that LA10,adj,15mins levels are representative of component noise levels from source(s)/premises under investigation.”

Using the measurement of LA10 and using the Schedule 2D table 1 we have the following in the table below

Sensitive Receptor	LA10	LA10+5	LA10+3
Day (7am-6pm)	54	59	
Evening (6pm-10pm)	44	49	
Night (10pm-7am)	42		45

The noise levels given the licensing condition can be summarised as

Sensitive Receptor	LA10
Day (7am-6pm)	59
Evening (6pm-10pm)	49
Night (10pm-7am)	45

However Noise EPP 2008 requires 55 dBA

Sensitive Receptor	LA10,adj,1hr
Outside a dwelling	55

4 Conclusions

The recommended noise levels for the licensing condition should be

Sensitive Receptor	LA10
Day (7am-6pm)	55
Evening (6pm-10pm)	49
Night (10pm-7am)	45

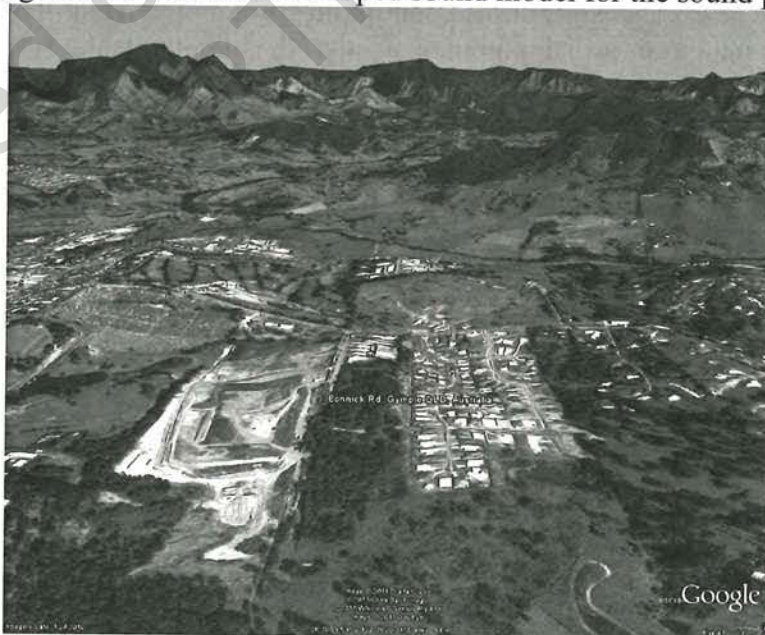
Given the short distance of 150m between both the resident and the landfill site. It seems that it will be difficult to implement noise level of 55dBA criteria without having a berm or sound barrier plus special acoustic treatment fitted to machinery.

For a comparison (although LAeq) the Caloundra landfill site license noise criteria is

Sensitive Receptor	LAeq,adj,1hr
Day (7am-6pm)	42
Evening (6pm-10pm)	41
Night (10pm-7am)	40

And the closest receiver is further than 500m from the landfill site.

Screen capture from Google Earth with ground profile enhance by 3 to see ground elevation and get a feel without a developed sound model for the sound propagation.



MBH2012/8

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

MBH2951-3

OTB
②/mk



**GYMPIE
REGIONAL
COUNCIL**

PO Box 155
Gympie QLD 4570

Phone: 1300 307 800
Fax: (07) 5481 0801
ABN: 91 269 530 353

Our Ref: 2/9/13/0003 MRG:CMK01109
Your Ref:

23rd December 2011

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services-North
South East Region
Department of Environment and Resource Management
PO Box 101
Maryborough QLD 4650

Dear Sir

**RE: Bonnick Road Redevelopment Application- Additional
Information "addendum to Acoustic Assessment"**

I refer to Council's letter dated 15 November 2011 providing DERM with additional information to clarify matters relating to the landfill extension.

I advise that Council's noise consultant has provided an addendum report addressing acoustic matters raised by DERM (meeting date 9/11/2011 and correspondence dated 10/11/2011) for the transfer station.

Please find enclosed a copy of the "Proposed Waste Management Facility, Gympie-Acoustic Assessment (Addendum)" report dated December 2011 by Air Noise Environment for your information.

With respect to proposed Transfer Station conditions, please forward to Council's Mr Ian Wolff and Ms Tanya Allen as soon as possible to allow staff time to review the draft conditions.

I trust the above information is adequate for your assessment of Council's Transfer station.

Yours faithfully

CTPI 49-Sch4-Signature

for **B.J. SMITH**
CHIEF EXECUTIVE OFFICER

RECEIVED

4 JAN 2012

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH



Gympie Regional Council

**PROPOSED WASTE MANAGEMENT
FACILITY, GYMPIE - ACOUSTIC
ASSESSMENT (ADDENDUM)**

FINAL REPORT

December 2011

Prepared by:

AIR NOISE ENVIRONMENT PTY LTD
3/4 Tombo Street
Capalaba, Queensland 4157
07 3245 7808 (ph) 07 3245 7809 (fax)
Web: www.ane.com.au E-mail: ane@ane.com.au

R



DOCUMENT CONTROL SHEET

Document Details

Project Reference:	2298
Document Title:	Proposed Waste Management Facility, Gympie - Acoustic Assessment (Addendum) - FINAL REPORT
Client:	Gympie Regional Council
Document Reference:	/Network/Projects/2298/Reporting/2298addendumreport02.odt

Revision History

Version:	Description:	Date:	Author:		Approved by:	
			Initials	Signature	Initials	Signature
00	Draft for internal review	21/12/11	SW	CTPI 49-Sch	-	-
01	Draft for Client	22/12/11	SW		CMR	CTPI 49-Sch4-Signatur
02	Final for Client	22/12/11	SW		CMR	
03						
04						
05						
06						
07						

Copyright:

Air Noise Environment retains ownership of the copyright to all reports, drawings, designs, plans, figures and other work produced by Air Noise Environment Pty Ltd during the course of fulfilling a commission. The client named on the cover of this document shall have a licence to use such documents and materials for the purpose of the subject commission provided they are reproduced in full or, alternatively, in part with due acknowledgement to Air Noise Environment.

Third parties must not reproduce this document, in part or in full, without obtaining the prior permission of Air Noise Environment Pty Ltd.

Disclaimer:

This document has been prepared with all due care and attention by professional environmental practitioners according to accepted practices and techniques. This document is issued in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If this document does not contain an original signature, it is not an authorised copy. Unauthorised versions should not be relied upon for any purpose by the client, regulatory agencies or other interested parties.

Where site inspections, testing or fieldwork have taken place, the report is based on the information made available by the client or their nominees during the visit, visual observations and any subsequent discussions with regulatory authorities. The validity and comprehensiveness of supplied information has not been independently verified and, for the purposes of this report, it is assumed that the information provided to Air Noise Environment Pty Ltd is both complete and accurate. It is further assumed that normal activities were being undertaken at the site on the day of the site visit(s).



1 INTRODUCTION

1.1 SCOPE OF STUDY

Air Noise Environment was commissioned by Gympie Regional Council (GRC) to complete a noise assessment for the proposed redevelopment of the Bonnick Road Waste Management Facility at Gympie.

An original acoustic report was completed by Air Noise Environment in August 2011, which was subsequently reviewed by the Queensland Department of Environment and Resource Management (DERM). This addendum report addresses acoustic matters raised by DERM in their 9 November 2011 meeting with GRC and following correspondence letter, as outlined in Section 1.2.

1.2 DERM RESPONSE

DERM has issued the following comments in their letter to Gympie Regional Council on 10 November 2011:

'The Department notes the following from the information provided:

- a) Background noise monitoring locations may not suitably reflect ambient noises in close proximity to the existing landfill – ie traffic accessing the existing landfill and through traffic on Corella / Mayborough Road.*
- b) Parameters selected from the Planning for Noise Control Guideline needs to accurately reflect the receiving environment to determine an appropriate planning noise level.*
- c) There is no scenario that excludes the proposed Transfer Station.*
- d) The landfill will operate for sufficient duration that Phase 1 (landfill and transfer station) cannot be overlooked.*
- e) The ANE report indicates the existing landfill does not comply with noise limits. Hence reference to noise emissions from the existing landfill is not appropriate to support the proposed activity.*
- f) Noise contours in the ANE modelling information suggests non-compliance for multiple receptors surrounding the existing and proposed landfill and transfer station.*
- g) Section 5.3 of the ANE report indicates non-compliance at multiple receptors around the subject site during Phase 1 by up to 6 dB(A), and up to 10 dB(A) during periods of scrap metal collection.*
- h) Design of the proposed transfer station should ensure noise emissions are contained or mitigated within the proposed development rather than relying on offsite mitigation measures.*
- i) Review of other potential sites for use as a Transfer Station, and or redesign/reconfiguration of the facility at the site in question may be appropriate.'*

R



Table 1.1 summarises responses to the above items and where appropriate, references the appropriate sections within this report.

TABLE 1.1: DERM ITEMS AND RESPONSES

Item	Response
a	For the purpose of this addendum report, Receptor Group R1 (eastern portion), P1 and F1 are the most affected receptors. The noise monitoring location selected (Corella Ct, setback 200 m from Maryborough Road) is considered to be appropriate to represent levels in the absence of the landfill site operations.
b	Selection of the receiving environment in the Planning for Noise Control Guideline may result in a different PNFC criteria however, the limiting criteria for the purpose of the assessment is the Background plus 5 noise objective outlined in the Environmental Protection (Noise) Policy 2008. The Background Plus 5 criteria is based on background noise measurements only.
c	There is no requirement to assess the landfill extension individually as it will operate in conjunction with the waste transfer station (Phase 1).
d	It is understood that, since the 9 November 2011 meeting, DERM has issued draft conditions, which are currently being negotiated with Gympie Regional Council. Hence, this item has not been further addressed.
e	This original approach has not been adopted in this addendum. Section 2 presents options for achieving full-compliance with the DERM criteria.
f	Section 2 presents options for achieving full-compliance with the DERM criteria.
g	Section 2 presents options for achieving full-compliance with the DERM criteria.
h, i	Section 2 of this report presents an alternative design option for achieving full-compliance with the DERM criteria at existing and potential sensitive receptors, without using off-site mitigation.



2 NOISE MODELLING

2.1 OVERVIEW

This section presents additional noise modelling results for Phase 2 (waste transfer station only). The noise modelling methodology is as per the August 2011 acoustic report, except for the following differences:

- mitigation measures as per Section 2.2;
- operation of metal collection activity (excavator, loading material into truck) within the transfer station building in conjunction with other typical operations;
- consideration of vehicle movement at 20 km/h along the internal road network and through the recovery building. Based on the GHD traffic report, a peak hour flow of 71 vehicles per hour (11% heavy vehicles).

Modelled receptor groups are presented in Section 4.5 of the August 2011 acoustic report.

2.2 MITIGATION MEASURES

In order to achieve the assessment noise criteria for Phase 2 at the existing and potential receptors, consideration has been given to the following mitigation measures at the waste transfer station:

- roof construction material with R_w 39 and lined on the underside with insulation achieving a Noise Reduction Coefficient of 0.92 (e.g. 50 mm 38 kg/m³ CSR rockwool building blanket).
- upper external wall (above concrete precast wall section) constructed of a material with R_w 31 and lined internally with insulation achieving a Noise Reduction Coefficient of 0.92.
- enclose all air gaps in facades;
- construct the following acoustic barriers (see Figures 1 and 2):
 - roof and wall enclosure around waste truck loading area (Figure 1).
 - 5.0 m acoustic barriers extended from the roller doors at the south-western and north-eastern external walls (Figure 1). These barrier fins reduce noise levels at the potential receptors, associated with noise breakout from the roller doors.
 - 2.4 m acoustic barrier at Bonnick Road boundary (Figure 2). The 2.4 m barrier reduces noise associated with site traffic entering and leaving the site along the internal road network.

Acoustic barriers should be continuous with no air gaps and constructed of a material with a minimum mass density of 12 kg/m². The barrier along Bonnick Road could be constructed using acoustic barrier material on top of an earth mound.

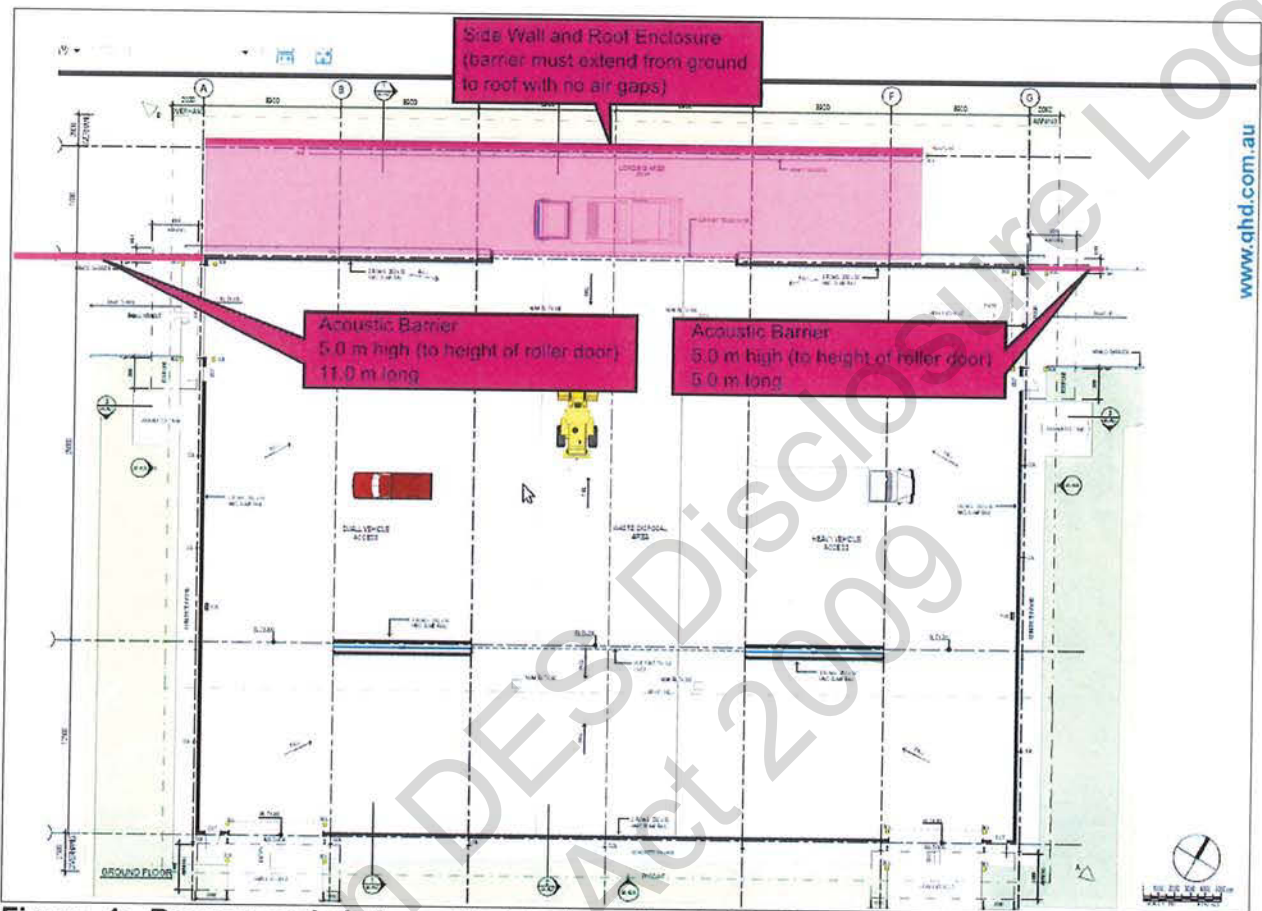


Figure 1: Recommended Acoustic Barriers for Achieving Compliance at Existing and Potential Receptors

It is noted that the 3.0 m acoustic barrier at the north-eastern boundary of the site (as recommended in the August 2011 report) is not required, where metal recycling occurs within the main transfer building. If metal recycling were to occur in the eastern portion of the site within a separate building, an acoustic barrier may be required however, additional modelling would be required to determine this.

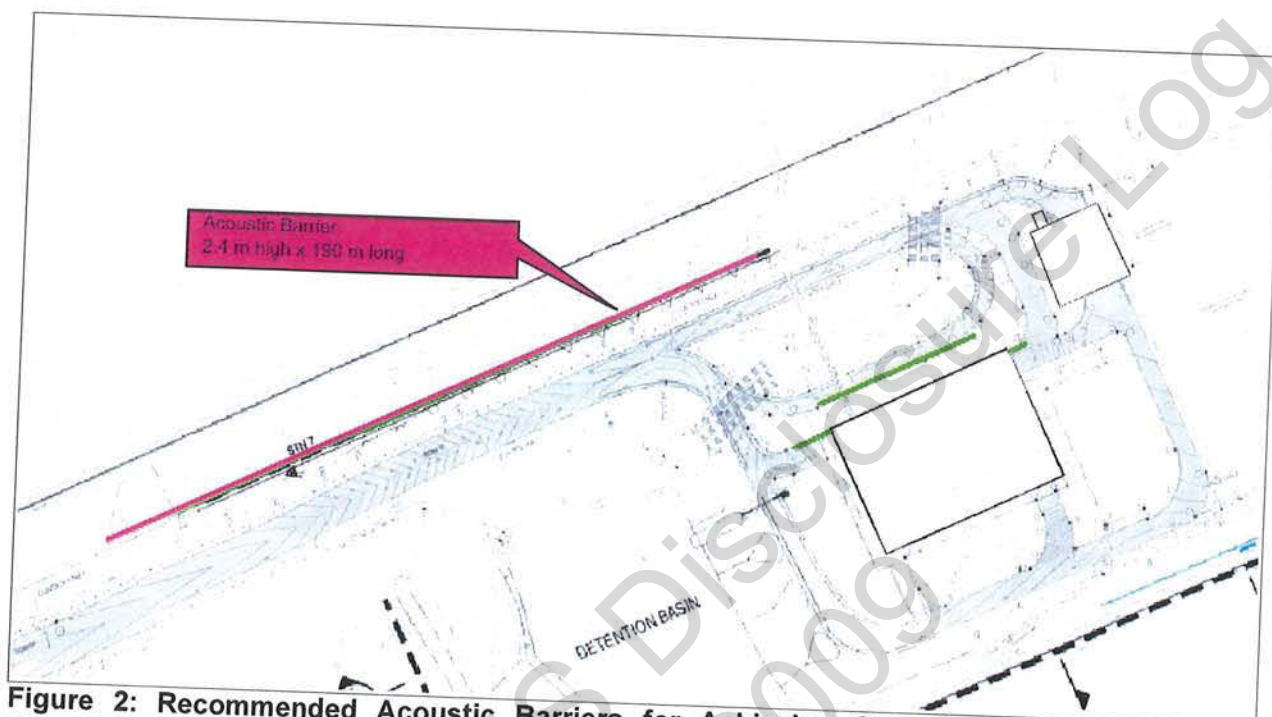


Figure 2: Recommended Acoustic Barriers for Achieving Compliance at Existing and Potential Receptors

2.3 PREDICTED RESULTS

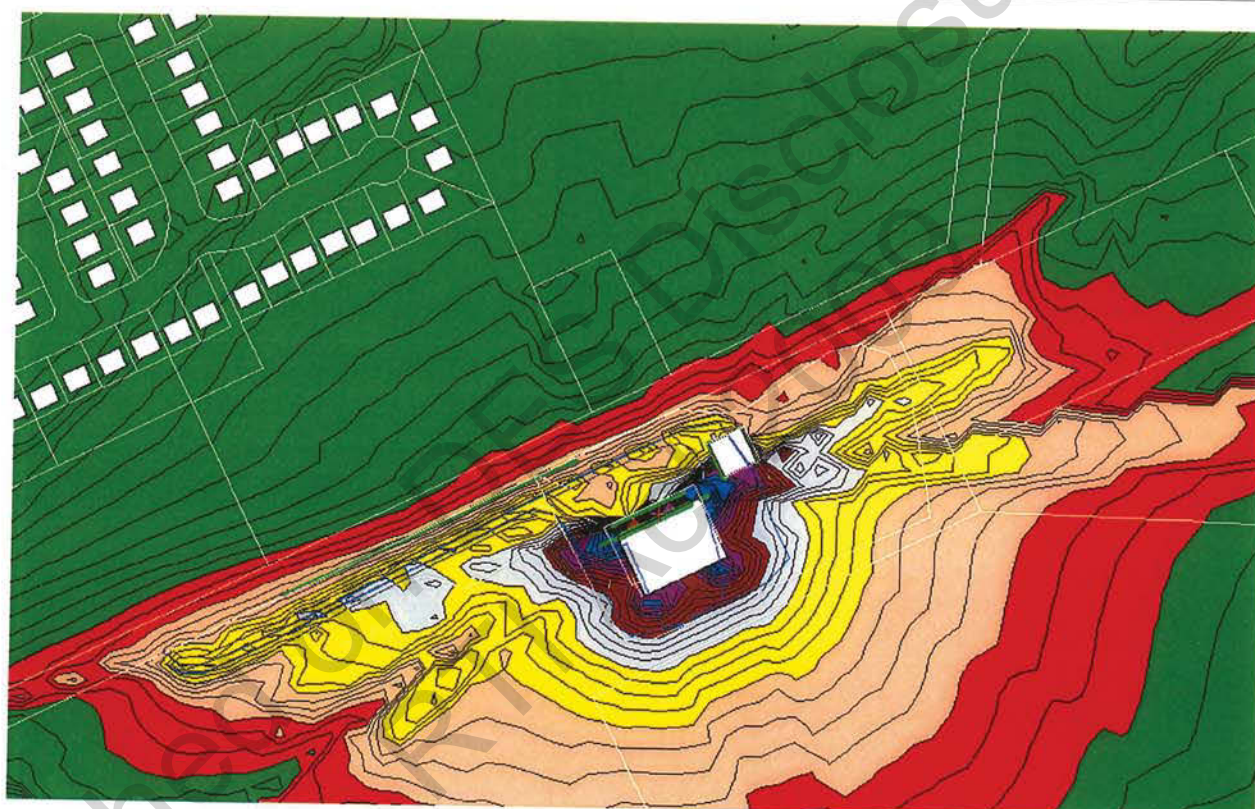
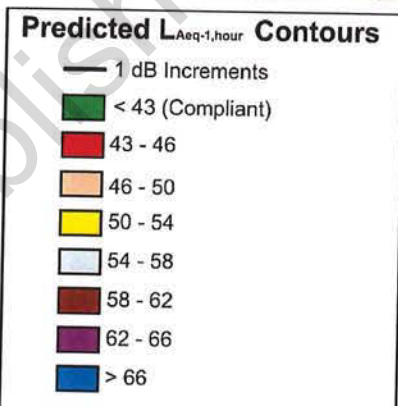
Table 2.1 presents predicted $L_{Aeq,1-hour}$ noise levels for Phase 2 (waste transfer station with metal collection). Figure 3 presents predicted noise contours at 5.0 m above ground.

TABLE 2.1: PHASE 2 - PREDICTED $L_{Aeq,1-hour}$ NOISE LEVELS – MITIGATION FOR EXISTING AND POTENTIAL RECEPTORS

Receptor Group	Receptor Type	Predicted $L_{Aeq,1-hour}$ Noise Levels dB(A)	Variable Noise Goal
F1	Potential Future	43	43
P1	Wide Bay TAFE Institute	43	43
P2	Gympie West Primary School	29	46
P3	James Nash High School	30	46
R1	Residential	37	43
R2	Residential	25	43
R3	Residential	33	43
R4	Residential	39	46
R5	Aged Care Residential Facility	31	46



Receptor Group	Receptor Type	Predicted $L_{Aeq,1-hour}$ Noise Levels dB(A)	Variable Noise Goal
R6	Residential	30	46
R7	Residential	30	46
R8	Residential at Gympie Golf Links	27	46
R9	Residential	39	43



Noise Criteria	
43 dB(A)	Receptor Groups R1 to R3, R9, P1, F1 and F2
46 dB(A)	Receptor Groups R4 to R8, P2 and P3

Mitigation - Compliance at Existing and Potential Receptors

Figure 3: Phase 2 – Predicted Noise Levels (5.0 m above ground)

R



As indicated by the results, compliance at all modelled existing and potential receptors is predicted to be achieved with the above mitigation.

It is noted that the original design included a number of openings in the building envelope and material with lower acoustic properties. The purpose of the additional mitigation presented in Section 2.2 is to achieve compliance at the vacant land (Receptor Group F1) located directly north of the proposed site. The land is designated as a Rural area and could be used for residential purposes in the future.

If the land were utilised for other purposes such as industrial activity, the extent of noise mitigation required would be reduced (e.g. no requirement for 2.4 m at Bonnick Road boundary, lower acoustic rating for roof).



3 CONCLUSIONS

Additional modelling has been undertaken to determine the required mitigation for achieving compliance at all nearby sensitive receptors (existing and potential). The nearest potential receptor group is a vacant land located directly north of the Bonnick Road landfill site (Receptor Group F1).

The noise modelling methodology is as per the August 2011 acoustic report, except for the following differences:

- operation of metal collection activity (excavator, loading material into truck) within the transfer station building in conjunction with other typical operations;
- consideration of vehicle movement at 20 km/h along the internal road network and through the recovery building. Based on the GHD traffic report, a peak hour flow of 71 vehicles per hour (11% heavy vehicles).

Based on iterative modelling, the following mitigation is predicted to be required in order to achieve compliance at both existing and potential future receptors:

- roof construction material with R_w 39 and lined on the underside with insulation achieving a Noise Reduction Coefficient of 0.92 (e.g. 50 mm 38 kg/m³ CSR rockwool building blanket).
- upper external wall (above concrete precast wall section) constructed of a material with R_w 31 and lined internally with insulation achieving a Noise Reduction Coefficient of 0.92.
- enclose all air gaps in facades;
- construct the following acoustic barriers (see Figures 1 and 2):
 - roof and wall enclosure around waste truck loading area (Figure 1).
 - 5.0 m acoustic barriers extended from the roller doors at the south-western and north-eastern external walls (Figure 1). These barrier fins reduce noise levels at the potential receptors, associated with noise breakout from the roller doors.
 - 2.4 m acoustic barrier at Bonnick Road boundary (Figure 2). The 2.4 m barrier reduces noise associated with site traffic entering and leaving the site along the internal road network.

Acoustic barriers should be continuous with no air gaps and constructed of a material with a minimum mass density of 12 kg/m². The barrier could be constructed using acoustic barrier material on top of an earth mound.

Before any construction material is chosen for the proposed buildings, acoustic information should be sought from the suppliers to ensure that the minimum acoustic requirements are achievable.

It is noted that the original design included a number of openings in the building envelope and material with lower acoustic properties. The purpose of the additional mitigation presented in Section 2.2 is to achieve compliance at the vacant land (Receptor Group F1) located directly north of the proposed site. The land is designated as a Rural area and could be used for residential purposes in the future. If the land were utilised for other purposes such as industrial activity, the



extent of noise mitigation required would be reduced (e.g. no requirement for 2.4 m at Bonnick Road boundary, lower acoustic rating for absorptive lining and roof).

Published on DES Disclosure Log
RTI Act 2009

R



APPENDIX A

ACOUSTIC GLOSSARY



APPENDIX A: GLOSSARY OF ACOUSTIC TERMINOLOGY

A-Weighting	A response provided by an electronic circuit which modifies sound in such a way that the resulting level is similar to that perceived by the human ear.
dB (decibel)	This is the scale on which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and the reference pressure (0.00002N/m ²).
dB(A)	This is a measure of the overall noise level of sound across the audible spectrum with a frequency weighting (i.e. 'A' weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
Facade Noise Level	Refers to a sound pressure level determined at a point close to an acoustically reflective surface (in addition to the ground). Typically a distance of 1 metre is used.
Free Field	Refers to a sound pressure level determined at a point away from reflective surfaces other than the ground with no significant contribution due to sound from other reflective surfaces; generally as measured outside and away from buildings.
Hertz (Hz)	A measure of the frequency of sound. It measures the number of pressure peaks per second passing a point when a pure tone is present.
L_{Aeq} Equivalent Continuous Sound Level	This is the equivalent steady sound level in dB(A) containing the same acoustic energy as the actual fluctuating sound level over the given period. For a steady sound with small fluctuations, its value is close to the average sound pressure level.
L_{A90,T}	This is the dB(A) level exceeded 90% of the time, T.
L_{A10,T}	This is the dB(A) level exceeded 10% of the time, T.
L_{A50,T}	This is the dB(A) level exceeded 50% of the time, T.
L_{WA}	The A-weighted sound power level in dB.
Noise Reduction Coefficient (NRC)	The arithmetic average of the sound absorption coefficients at the four frequencies of 250, 500, 1000 and 2000 Hz.
R_w	A commonly referenced descriptor of the effectiveness of a material to reduce the noise energy transmitted through the material.



Enquiries Michelle Wright
Telephone (07) 4121 1800
Your reference Letter dated 5 January 2011 to Councillor Ron Dyne
Our reference MBH2951

Department of
Environment and Resource
Management

24 January 2011

CTPI 49-Sch4-Name

CTPI 49-Sch4-Address

GYMPIE QLD 4570

Dear CTPI 49-Sch4-Name

Re. Bonnick Road Waste Management Facility

I write to make comment on your letter dated 5 January 2011 addressed to Councillor Ron Dyne, Mayor of Gympie Regional Council, in relation to the Bonnick Road Waste Management Facility. The letter was forwarded on to my section, Environmental Services North, of the Department of Environment and Resource Management, to whom the letter was sent for information purposes.

In relation to your comments on odour emanating from the facility, I would like to provide you with another channel for such complaints. The department has a telephone number for members of the public to report environmental incidents and nuisance called the Pollution Hotline. If you wish to make a complaint about an environmental incident or should you experience nuisance from a facility that the department regulates, please call our Pollution Hotline number on 1300 130 372. A Pollution Hotline operator will record your complaint and will then send you a form for completion and posting back to the department so that your complaint can be allocated to an officer in the relevant region for investigation.

I hope that this advice is helpful.

Yours sincerely

CTPI 49-Sch4-Signature

Tim Brain
Manager (Wide Bay Burnett)
Environmental Services North
South East Region

13 January 2011

Department of Environment & Resource Management
PO Box 101
MARYBOROUGH QLD 4650

Attn: T Brain

Please find attached correspondence, for your information, regarding Proposed transfer/recycling facility at Bonnick Road, Gympie. Our records show that you have been involved in this previously.

For further information please do not hesitate to contact this office.

Thank you

CTPI 49-Sch4-Signature

A Jenkins
Land Officer
Gympie

MBH 2011/101

MBH29



Queensland Government
Department of Environment and Resource Management

27 O'Connell Street
Locked Bag 383
GYMPIE QLD 4570
Telephone 07 54805 343
Facsimile 07 54805 302
Website www.derm.qld.gov.au

*Hi Michelle.
Please note the complaint
about odour made on p. 2.
We will need to respond
to the complaint.
With Compliments
Thanks*

RECEIVED
OVER THE COUNTER

6 JAN 2011

DERM-GYMPIE

CTPI 49-Sch4-Name

CTPI 49-Sch4-Address

GYMPIE Qld 4570

5 January 2011

Councillor Ron Dyne
Mayor
Gympie Regional Council
PO Box 155
GYMPIE Qld 4570

RECEIVED

18 JAN 2011

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

For Information: Department of Local Government
Department of Environment and Resource Management

Dear Councillor Dyne

PROPOSED TRANSFER/RECYCLING FACILITY AT BONICK ROAD

References: A. GRC response dated 25 Nov 10
B. My letter to you dated 12 Nov 10

I am writing to you personally to express my disappointment and somewhat anger at being so bureaucratically dismissed (Reference A) by your Planning and Development Section as a response to my initial request for information (Reference B) concerning the current and future operation of the refuse dump.

I don't like being put off in this manner when my initial request for information was simply that and not an outright objection to your development application.

73(2)Irrelevant

If your development application for the proposed Transfer/Recycling Facility is not for public notifying, then why was I not given an explanation of this limitation and the authority for same?

I am a reasonable person seeking to ensure that development in our community is progressed properly and in full consultation with ratepayers, remembering that elected Councillors are our representatives in such matters. If a future development is shown to be beneficial to the community and conforms to all environmental and other standards and limitations, then I will become a strong advocate for such development. However, from what I am hearing from many long term local Gympie residents, this Council has an extremely bad reputation of hidden agendas regarding planning and development and a tendency to push things through without full and open consultation.

I again request the information I sought in my initial correspondence to you and I ask Ron that you intervene to ensure this information is properly provided. I, along with many other residents of Fairview Park Estate, require this information to be fully informed concerning the development of the Transfer/Recycling Facility. I do, however, compliment you on your recent letter box drop initiative, but your information flyer concerning the development of the facility was difficult to read and digest and fell well short on detail regarding noise and odour impact information for adjacent residences. Did you personally authorise that flyer?

As a related matter, the odours emanating from the dump yesterday and today were almost unbearable. I don't know whether this was a 'one off' due to the current wet weather conditions and wind direction: I hope you can throw some light on this for me?

I understand the disposal of rubbish and recycling is a complex issue for any Council, but if you have the ratepayers 'on side' through open and honest communication then often complex matters can be resolved a lot easier.

I am available at any time to discuss this matter further with you and I look forward to a positive response from you.

Yours sincerely

CTPI 49-Sch4-Name

CTPI 49-Sch4-Mobile

Karle Matt

From: Karle Matt
Sent: Tuesday, 24 January 2012 2:52 PM
To: CTPI 49-Sch4-
Cc: 'ian.wolff@gympie.qld.gov.au'
Subject: GRC - Bonnick Road Landfill

Hello Sam,

Myself and colleagues Tim Brain and Carol Hardy met with GRC rep's on Thursday last week. Some of the matters requiring further discussion involve yourself. Ian Wolff invited me to contact you directly.

If you have an opportunity to consider the below matters in the near future, that would be greatly appreciated.

1. Definition re Noise Reduction Co-efficient – embarrassingly my definition was from Wikipedia. It does however make sense to me and other regulators who may be involved in the site in the future. If you don't agree with that definition, are you able to propose some wording that can be understood by the layman? I don't disagree with your definition, I just don't think it is easily understood by personnel who are not experienced noise consultants.
2. Condition 2D1-5 relates to storage bins. During the meeting last week I advised that lining of bins was stated in the ANE report as a conclusion worth considering. Council advise that lining bins is an expensive and maintenance intensive solution, yet I recognise lining bins as an effective way to reduce impact noise. I mentioned the possibility of lining the outside of the bins to minimise echo and absorb vibration. Given the bins are to be inside an enclosed facility, would lining the outside of the bins be effective at assisting council to do all reasonable and practical things to minimise noise from the transfer station?
3. Regarding Condition 2D1-6, council identify that a 20km/hr speed limit is very slow. I note that it was a conclusion in the ANE report. How critical is vehicle speed in managing noise emissions?
4. Regarding Condition 2D1-8, I note a requested exemption for ventilation purposes. That caveat was not part of the supporting information, and I note the ANE report recommends open gaps be prevented. Whilst I appreciate the need for ventilation, will ventilation affect the assumptions of the modelling and the potential for noise nuisance? Ventilation that includes acoustic attenuation may be appropriate. Has that been factored in to the design? If so, please offer some appropriate wording.
5. In the revised Draft, I reduced permissible noise levels to 44dB(A) for both the landfill and the transfer station given 44 and 44 equal about 47dB(A). I note that whilst you acknowledge the theory, you reasonably question whether both noise sources are the same to result in a combined noise level of 47dB(A). Council are keen for the landfill to remain at 47dB(A), which I struggle with given potential noise sensitive locations nearby and the planning for noise control level of 44dB(A). Whilst I'd consider increasing permissible noise at commercial premises back up to 55 dB(A) as per the initial draft, I'm keen to regulate noise at nuisance sensitive premises at 44dB(A). Will council comply with 44dB(A) or BG plus 3 at nuisance sensitive premises if I was to increase authorised noise at Commercial premises up to 55dB(A)?

Any assistance with the above would be appreciated. Currently, a decision about the application is due 31st January 2012 (next Tuesday). DERM and GRC are currently striving to reach agreement regarding proposed conditions.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Karle Matt
Sent: Tuesday, 24 January 2012 2:52 PM
To: CTPI 49-Sch4-
Cc: 'ian.wolff@gympie.qld.gov.au'
Subject: GRC - Bonnick Road Landfill

Hello Sam,

Myself and colleagues Tim Brain and Carol Hardy met with GRC rep's on Thursday last week. Some of the matters requiring further discussion involve yourself. Ian Wolff invited me to contact you directly.

If you have an opportunity to consider the below matters in the near future, that would be greatly appreciated.

1. Definition re Noise Reduction Co-efficient – embarrassingly my definition was from Wikipedia. It does however make sense to me and other regulators who may be involved in the site in the future. If you don't agree with that definition, are you able to propose some wording that can be understood by the layman? I don't disagree with your definition, I just don't think it is easily understood by personnel who are not experienced noise consultants.
2. Condition 2D1-5 relates to storage bins. During the meeting last week I advised that lining of bins was stated in the ANE report as a conclusion worth considering. Council advise that lining bins is an expensive and maintenance intensive solution, yet I recognise lining bins as an effective way to reduce impact noise. I mentioned the possibility of lining the outside of the bins to minimise echo and absorb vibration. Given the bins are to be inside an enclosed facility, would lining the outside of the bins be effective at assisting council to do all reasonable and practical things to minimise noise from the transfer station?
3. Regarding Condition 2D1-6, council identify that a 20km/hr speed limit is very slow. I note that it was a conclusion in the ANE report. How critical is vehicle speed in managing noise emissions?
4. Regarding Condition 2D1-8, I note a requested exemption for ventilation purposes. That caveat was not part of the supporting information, and I note the ANE report recommends open gaps be prevented. Whilst I appreciate the need for ventilation, will ventilation affect the assumptions of the modelling and the potential for noise nuisance? Ventilation that includes acoustic attenuation may be appropriate. Has that been factored in to the design? If so, please offer some appropriate wording.
5. In the revised Draft, I reduced permissible noise levels to 44dB(A) for both the landfill and the transfer station given 44 and 44 equal about 47dB(A). I note that whilst you acknowledge the theory, you reasonably question whether both noise sources are the same to result in a combined noise level of 47dB(A). Council are keen for the landfill to remain at 47dB(A), which I struggle with given potential noise sensitive locations nearby and the planning for noise control level of 44dB(A). Whilst I'd consider increasing permissible noise at commercial premises back up to 55 dB(A) as per the initial draft, I'm keen to regulate noise at nuisance sensitive premises at 44dB(A). Will council comply with 44dB(A) or BG plus 3 at nuisance sensitive premises if I was to increase authorised noise at Commercial premises up to 55dB(A)?

Any assistance with the above would be appreciated. Currently, a decision about the application is due 31st January 2012 (next Tuesday). DERM and GRC are currently striving to reach agreement regarding proposed conditions.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

To: ESNorth – Wide Bay
Subject: Application Number 450757

**Please note: To assist with meeting statutory timeframes this application has been uploaded to SharePoint (see below).
The paper copy is for filing purposes only.**

A development application has been received and validated by Permit and Licence Management (PALM) in the Implementation and Support Unit (ISU). A review has been undertaken for the potential impacts of the proposed development on the State Interests administered by the department, including jurisdictional matters under the *Sustainable Planning Act 2009*.

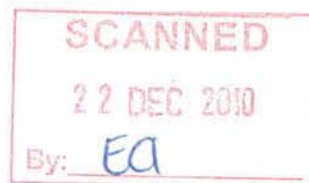
Our findings suggest that the application is a **Single** jurisdiction application. If however, you find additional triggers please contact PALM to discuss further action.

As the application is single jurisdiction it is forwarded to your business group to complete as per the *Sustainable Planning Act 2009*.

The copy of the application has been placed on SharePoint for access by you. Please click the attached link to take you to SharePoint.

<http://sharepoint/sites/DevelopmentApplications/Shared%20Documents/Forms/AllItems.aspx>

Application Number: 450757
Project Number: 221737
Project Director: Tim Brain
Client Name: Gympie Regional Council
Location: Bonnick Road, GYMPIE
Lot Plan: Lot 542 on MCH801883
Assessment Manager: Gympie Regional Council
Agency Role: Concurrence Agency
Application Type: Material Change of Use
Jurisdictions: Environmental Operations
Date properly made/referred: 21/12/2010
ISU (PALM) Contact: Denise Henderson
Sharepoint Folder: SEQ Wide Bay Burnett



Hardcopy sent to: Contact Name: Time Brain/Kimberley Kleindienst
Business Unit: Environmental Operations - SEQ Wide Bay Burnett
Postal Address: PO Box 101, Maryborough QLD 4650

Regards,
ISU

RECEIVED
24 DEC 2010
DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

File MBH
then new vol.

R

Karle Matt

From: Oakley Richard
Sent: Wednesday, 25 January 2012 3:47 PM
To: Karle Matt
Cc: Blanchard Scott
Subject: RE: Bonnick Road
 Hi Matt,

Making progress on this by the sounds of things. Hope my ramblings below make sense call me if they don't happy to discuss, thanks for your nifty diagram btw

1. The old landfill is unlined. As per the above image, the landfill extension rests back on the existing landfill – preventing recirculation of leachate from the extension to the existing landfill is almost impossible. Consultant [CTPI 49-Sch] is firmly of the belief that recirculating leachate is of benefit to manage leachate quality and expedite decomposition of waste in the landfill. No arguments with that. Groundwater to be monitored for contaminants. A must and a given.
2. removal of the bund between existing and extension is an important process to prevent leachate sitting on the base of the existing landfill. Not sure of the sequence of the engineering works but that bund may also be considered as a minor buttress that supports the existing waste slope and mass, care needs to be taken in the timing of its removal and replacement with material. Dependent upon the "bunds" size, construction and the slope and force of the existing waste behind it may be potential slope stability risks on its removal (till it is at least backfilled with waste anyhow) would be worth confirming with the engineers they have at least considered the risk and discounted as not significant. Allowing landfill leachate to migrate through waste toward the new lined base of the extension is argued to be of benefit as opposed to allowing leachate to build up on the base of the existing unlined landfill. What do we know (if anything) about the extent of that leachate "pool"? is it sitting there if so what is its profile and maximum depth or do we have evidence of migration and release to GW. Re; The design of the existing cell, we know its not lined but just remind me what do we know about the substrate below the waste, and are there site plans and base levels that demonstrate there is a sufficient fall/slope across the whole of the existing landfill base for this to be the preferred pathway to make sure the leachate in the old site will go in the direction of the new site (or isn't that what the old SW culvert pipe was supposed/proposed to be to be doing if I recall.). Base profile and preferential pathways to the new lined landfill is key to this possibly working. Have they said/demonstrated how they will make sure leachate will make it into the new sump area as opposed to taking the pathway/route down and below it!
3. Groundwater under the landfill extension is within about 900mm of the liner. The consultant argues they are putting in a groundwater cut off system with gravity feed surface discharge to Peter and Paul Gully – and using a GCL liner groundwater cut off and depressurisation system are proven to work if designed and installed correctly that is nit the issue. The consultant is adamant that groundwater won't be affected by the proposed design, and by connecting the existing landfill to the landfill extension, the potential for groundwater contamination is argued to reduce significantly. I suppose if any of the leachate from the old site does make it into the new site (where it is then collected and managed) then one could say there has been a reduction, this would have to be balanced with the permitting of allowing the reintroduction of more leachate into the site via recirculation though. As I have said before there is a high DERM credibility risk if we permit additional introduction of contaminant via leachate into the old site when we know it is not being effectively managed ie if we know there is already release from site or we are not be certain there will be an increase Therefore, it's the bits above that I perhaps still need to see demonstrated and convinced of, that the Pathway and how the leachate will indeed make it to the new system that can effectively contain and manage..
4. There is insufficient landspace to provide a stormwater sed pond for runoff from the entire landfill area (ie existing and extended landfill). Therefore, runoff from the existing landfill will be managed as it currently is (using vegetated swales etc), and runoff from the extension only will report to the stormwater sed dam That's fair enough & OK, if they have demonstrated there in no net increase in negative impact then its OK to keep on with existing system, and bolt on the new system for the additional, if the old swales have not coped in the past then it should all be reviewed..
5. Requiring changes to separation to groundwater and preventing leachate recirculation from the lined landfill back to the existing landfill is a show stopper for the design. If they can provide evidence that reasonably shows there will not be an unacceptable level of risk then we can justifiably with proceed.

I've spoken to Principal officer Murray Allen from DERM in Gladstone. Murray said there are several landfills that have been 'fixed' using designs from Greg Robson, involving landfilling close to groundwater with cut off systems, which have worked effectively and have extended the life of sites that were otherwise close to closing. Murray indicated that allowing for recirculation from the lined area to the unlined facility (with monitoring), and Landfilling close to groundwater with a cut off system should not be reasons for refusal, as the overall outcome would be a significant improvement. These issues can be certainly be engineered and solutions developed to overcome them, of that there is no doubt, as long as they are designed specific for the location and conditions. Sadly there will always be a risk, no one can absolutely guarantee there will be no escape show me a liner system that will not fail eventually, its more a case of when and will it be acceptable when it does. This site I recall needs to go the extra mile in proving things because of siting and receptor sensitivity, it is not your run of the mill site. If they provide reasonable evidence that demonstrate no significant risk then absolutely there is no reason to refuse.

Give us a call if you need to discuss,

regards

Richard Oakley

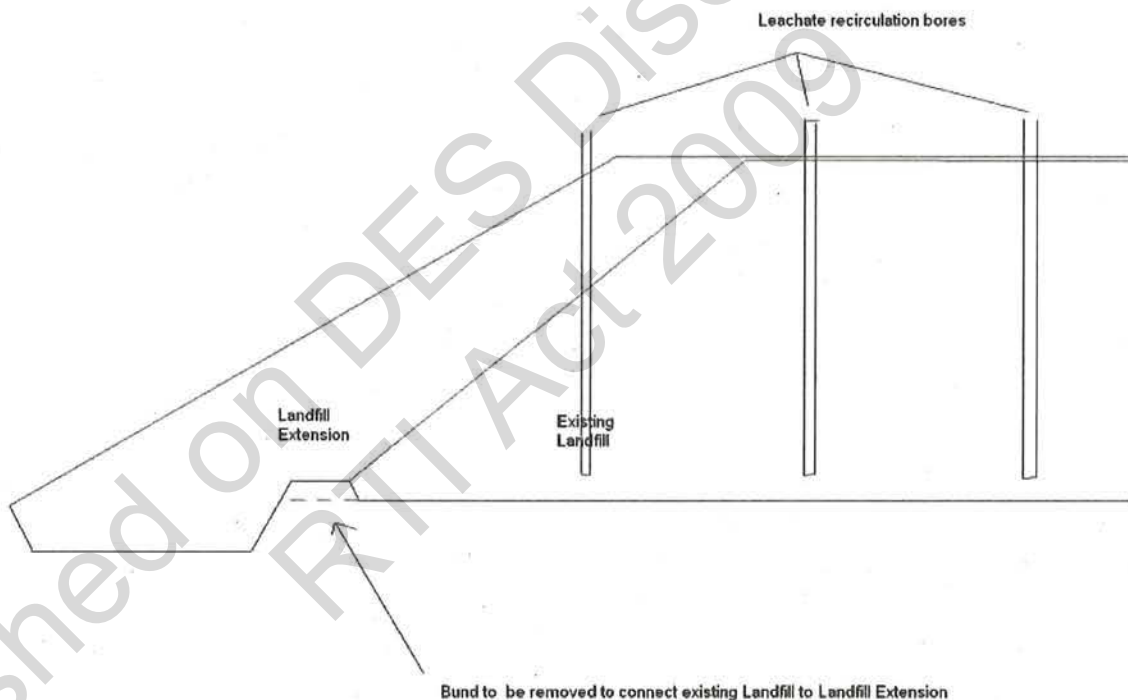
Strategic Compliance
Environmental Performance and Coordination
Environment and Natural Resource Regulation, DERM
Telephone: CTPI 49-Sch
Facsimile: 07 3381 7560
email richard.oakley@derm.qld.gov.au
www.derm.qld.gov.au

From: Karle Matt
Sent: Wednesday, 25 January 2012 1:50 PM
To: Oakley Richard
Subject: Bonnick Road

Hi Richard,

We met with GRC last week regarding conditions of approval for Bonnick Road. There are a number of things that we will have to amend if we are to approve the application.

I've quickly done the diagram below to assist the discussion:



6. The old landfill is unlined. As per the above image, the landfill extension rests back on the existing landfill – preventing recirculation of leachate from the extension to the existing landfill is almost impossible. Consultant [CTPI 49-Sch] is firmly of the belief that recirculating leachate is of benefit to manage leachate quality and expediate decomposition of waste in the landfill. Groundwater to be monitored for contaminants.
7. removal of the bund between existing and extension is an important process to prevent leachate sitting on the base of the existing landfill. Allowing landfill to migrate through waste toward the new lined base of the extension is argued to be of benefit as opposed to allowing leachate to build up on the base of the existing unlined landfill.
8. Groundwater under the landfill extension is within about 900mm of the liner. The consultant argues they are putting in a groundwater cut off system with gravity feed surface discharge to Peter and Paul Gully – and using a GCL liner. The consultant is adamant that groundwater won't be affected by the proposed design, and by connecting the existing landfill to the landfill extension, the potential for groundwater contamination is argued to reduce significantly.
9. There is insufficient landspace to provide a stormwater sed pond for runoff from the entire landfill area (ie existing and extended landfill). Therefore, runoff from the existing landfill will be managed as it currently is (using vegetated swales etc), and runoff from the extension only will report to the stormwater sed dam
10. Requiring changes to separation to groundwater and preventing leachate recirculation from the lined landfill back to the existing landfill is a show stopper for the design.

I've spoken to Principal officer Murray Allen from DERM in Gladstone. Murray said there are several landfills that have been 'fixed' using designs from [CTPI 49-Sch] involving landfilling close to groundwater with cut off systems, which have worked effectively and have extended the life of sites that were otherwise close to closing. Murray indicated that allowing for recirculation from the lined area to the unlined facility (with monitoring), and landfilling close to groundwater with a cut off system should not be reasons for refusal, as the overall outcome would be a significant improvement.

Do you have any thoughts?

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Michael Grant [Michael.Grant@gympie.qld.gov.au]
Sent: Friday, 25 November 2011 10:06 AM
To: Karle Matt
Subject: RE: Re: Bayside Rd Transfer Station

Thanks Matt, much appreciated. I do realize you have a bit on your plate.

Michael Grant
 Director of Community Services
 Gympie Regional Council
 (07) 5481 0611

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 24/11/2011 5:07 PM >>>

Hello Michael,

I received the email below and your recent phone message. Apologies for not getting back to you. I've actually been quite consumed with the Bonnick Road application. Truly!

I am in Bundaberg all day tomorrow and out of the office early next week. I will however discuss this matter with Tim and the officer that may have had dealings with this who is currently on secondment to another business unit as opportunity permits tomorrow.

We'll strive to get back to you sooner than later.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Michael Grant [mailto:Michael.Grant@gympie.qld.gov.au]
Sent: Thursday, 17 November 2011 4:26 PM
To: Karle Matt; Brain Tim (DERM)
Cc: Grayden Curry
Subject: Fwd: Re: Bayside Rd Transfer Station

Tim,

R

as discussed with Matt Karle today, GHD have recently reviewed the proposed layout of the Bayside Road transfer station prior to preparing detailed plans. During discussions with GHD the issue of the waste levy was raised and I confirmed that a weighbridge and gate house must be included in the design. As a result a fresh look by GHD has identified a new layout to incorporate the additional infrastructure and better functionality.

Could you please review the proposed new concept plan and advise of any concerns you may have prior to Council applying for changes to it's approval.

Thanks

Michael Grant

Director of Community Services

Gympie Regional Council

(07) 5481 0611

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

+-----+
Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water
+-----+

Karle Matt

From: Ian Wolff [Ian.Wolff@gympie.qld.gov.au]
Sent: Monday, 26 September 2011 4:46 PM
To: Karle Matt
Cc: CTPI 49-Sch4-Em@bigpond.com; Christine Kennedy; Grayden Curry; Michael Grant
Subject: Re: Bonnick Road Landfill

Matt

Further to your e-mail, I confirm that Michael Grant is currently on leave until Monday, 3 October 2011.

Please be advised that advice received from Council's consultant this afternoon (Monday, 26 September 2011) indicates that the documentation provided to DERM is Council's response to the information request.

I trust this clarifies the situation.

Regards

Ian

>>> "Karle Matt" <Matt.Karle@derm.qld.gov.au> 22/09/2011 10:51 AM >>>
 Hello Ian.

I understand that Michael Grant is currently on leave. In Michael's absence, I need to discuss some correspondence that was received from Gympie Regional Council on 16th September 2011, dated 14th September 2011 (your reference 2-9-01-0002MG:CMK01045).

The letter refers to DERM information request dated 27th January 2011 and confirms that councils response to the information request is attached (to that correspondence) for our assessment. There were 2 x attachments, both of which are clearly marked as being 'DRAFT'.

The cover letter requests a meeting with DERM to discuss the responses, and invites the reader to contact Michael to arrange a suitable date and time.

Of primary importance (due to statutory time frames), please confirm whether the material received with this cover letter, marked 'DRAFT', is Council's response to the information request. If that material is Council's reply, then the current decision due date for the application is 14th October 2011 (subject to extension if required). If that material is not Council's response to the information request, then it is important that council note the information request response period lapses on 27th September 2011. A response to the information request is required before that date to keep the application valid / current.

Regarding Michaels for a meeting, allocation of this project to an officer has not yet occurred due to workload volumes in this team. The officer involved in the information request stage is on secondment to another business unit. If a meeting is desired urgently, DERM will make necessary arrangements, however if a meeting is not proposed until after Michael returns to work, please request Michael to contact DERM to propose a meeting time.

I look forward to hearing from you in relation to the submission received at your earliest convenience.

Regards

Matt Karle
 A / Manager (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
 Email: matt.karle@derm.qld.gov.au

+-----+
Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water
+-----+

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: ministererm.corro@derm.qld.gov.au

Sent: Wednesday, 26 October 2011 12:04 PM

To: Karle Matt

Subject: Item Finalised : 16697/11 Subject: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that application is thorough

Item Number 16697/11 has been finalised.

Minister - Environment review outcome (if applicable):

Item Details

Document Type: Min - Request for Reply and Brief

Subject: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that application is thoroughly investigated

Please click on the Item Link to view the Min - Request for Reply and Brief

If you have any queries please contact Ministerial (ERM) Correspondence or officers from Minister Environment by emailing to ministererm.corro@derm.qld.gov.au or via the link Management Team Link.

email: EmailSignOffFinaliseInvolved

R

Karle Matt

From: Allan Murray
Sent: Friday, 27 January 2012 11:02 AM
To: Karle Matt
Subject: RE: Draft conditions of approval - 2nd amended.doc
Attachments: BSC_TrapGully_landfill_draft_permit_SPCE 2012 13jan.doc

gday Matt - your format is fairly different, but outcomes/meanings/intent much the same - attached is one of our mcus working on to consult with council soon - thought the most practical thing was to colour (green) in my draft a few headings that are bit different etc. to yours and may be of some use - your conditions are a bit more prescriptive in places - we have all the plans etc. and our location is on the edge of a mine site, not a city - don't hesitate to get back re any queries and comments about approval - I'll check thoroughly through yours and use some of it too.

thanks
Murray

From: Karle Matt
Sent: Wednesday, 25 January 2012 4:42 PM
To: Allan Murray
Subject: Draft conditions of approval - 2nd amended.doc

Murray,

Attached are draft conditions for Bonnick Road landfill extension and transfer station as discussed with your recently.

I'd appreciate any comments you may have regarding the draft. Currently a decision is due next Tuesday 31st January 2012. I am awaiting comments back from the noise consultant regarding some conditions around noise - so the decision making period may be extended by a short period.

Regards

Matt Karle

R

Karle Matt

From: Karle Matt
Sent: Friday, 27 January 2012 2:48 PM
To: 'ian.wolff@gympie.qld.gov.au'; 'Michael Grant'
Subject: FW: 2298 - Email - SW - Further Comments
 Sam,

Thanks for your email. I will have a read and see how we go.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: [CTPI 49-Sch4-Name]@ane.com.au]
Sent: Friday, 27 January 2012 2:43 PM
To: Karle Matt
Cc: michael.grant@gympie.qld.gov.au; Ian Wolff; Tanya Allen
Subject: 2298 - Email - SW - Further Comments

Hi Matt,

Thanks for your email. Below are some comments in relation to your queries in the email date 24/1/12.

1) Definition of NRC

I think I understand where you're coming from. It is important to note that NRC and sound absorption coefficient have 2 different definitions:

Sound absorption coefficient (is as per the draft condition's description) - means the amount of acoustic energy absorbed upon striking a particular surface. A sound absorption coefficient of 0 indicates perfect reflection while a value of 1 indicates perfect noise absorption.

NRC Noise Reduction Coefficient - means the *arithmetic average of the sound absorption coefficients* at the four frequencies of 250, 500, 1000 and 2000 Hz.

An NRC of 1, would mean that the sound absorption coefficients at 250, 500, 1000 and 2000 Hz have values of 1. Frequencies (Hz) below 250 and above 2000 are not considered in the calculation of NRC. I suggest DERM includes both definitions in the report. As material suppliers for insulation always provide NRC values, I think it's important to include.

2) Lining on bins

It is noted that a significant portion of the transfer building is to comprise of insulation materials (upper walls and roof), with a high level of sound absorption. The use of insulation will already assist in minimising reverberation of any potential short impulsive noises (e.g. bins hitting ground). Also, it may be difficult to impose bin lining as the bins are provided by contractors.

3) The speed limit is not critical when you're comparing 20 km/h and 40 km/h. The main issue would be controlling vehicles and trucks during acceleration and GRC propose speed bumps to control speed and acceleration.

4) Wording for ventilation

"The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented (with the exception of ventilation openings). Due consideration shall be given to the type of ventilation installed to ensure that noise limits are achieved. Examples of ventilation which may be appropriate include acoustic louvers. The final form of ventilation must be selected based on the advice of an acoustic consultant. "

5) Noise Limits

I am not confident, based on our modelling, that the 44 dB(A) for the land fill extension can be complied with under all wind conditions. Is there any issue with combining the noise conditions for the site to allow for 47 dB(A) at nuisance sensitive place and 55 dB(A) at a commercial place? This was my recommendation in the previous comments.

I believe this approach has essentially the same outcome as having 2 separate conditions of 44 dB(A) for developments on the same site.

Also, we should consider that any potential complaints may be directed at noise from the whole site combined (transfer station and landfill extension), given the similar types of noise sources (e.g. heavy vehicles, loaders, etc) and use of the same land. In this case, it would be more practical to determine compliance through noise measurements when there is a combined noise limit. If noise from both developments are heard at a receptor simultaneously, then it would be more challenging to determine compliance from each development based on separate conditions.

Finally, the 47 dB(A) and 55 dB(A) combined conditions are more achievable based on predictions (while still having the same affect of 2 separation 44 dB(A) conditions).

Please let me know if you have any queries.

Regards,

CTPI 49-Sch4-f

Environmental Engineer



Air Noise Environment Pty Ltd

Unit 3, 4 Tombo Street

Capalaba

QLD 4157

Tel: +61 7 3245 7808

Fax: +61 7 3245 7809

Mobile: CTPI 49-Sch4

Email: CTPI 49-Sch4@ane.com.au

Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Karle Matt

From: [CTPI 49-Sch4-Name]@ane.com.au]
Sent: Friday, 27 January 2012 2:43 PM
To: Karle Matt
Cc: michael.grant@gympie.qld.gov.au; Ian Wolff; Tanya Allen
Subject: 2298 - Email - SW - Further Comments

Hi Matt,

Thanks for your email. Below are some comments in relation to your queries in the email date 24/1/12.

1) Definition of NRC

I think I understand where you're coming from. It is important to note that NRC and sound absorption coefficient have 2 different definitions:

Sound absorption coefficient (is as per the draft condition's description) - means the amount of acoustic energy absorbed upon striking a particular surface. A sound absorption coefficient of 0 indicates perfect reflection while a value of 1 indicates perfect noise absorption.

NRC Noise Reduction Coefficient - means the *arithmetic average of the sound absorption coefficients* at the four frequencies of 250, 500, 1000 and 2000 Hz.

An NRC of 1, would mean that the sound absorption coefficients at 250, 500, 1000 and 2000 Hz have values of 1. Frequencies (Hz) below 250 and above 2000 are not considered in the calculation of NRC. I suggest DERM includes both definitions in the report. As material suppliers for insulation always provide NRC values, I think it's important to include.

2) Lining on bins

It is noted that a significant portion of the transfer building is to comprise of insulation materials (upper walls and roof), with a high level of sound absorption. The use of insulation will already assist in minimising reverberation of any potential short impulsive noises (e.g. bins hitting ground). Also, it may be difficult to impose bin lining as the bins are provided by contractors.

3) The speed limit is not critical when you're comparing 20 km/h and 40 km/h. The main issue would be controlling vehicles and trucks during acceleration and GRC propose speed bumps to control speed and acceleration.

4) Wording for ventilation

"The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented (with the exception of ventilation openings). Due consideration shall be given to the type of ventilation installed to ensure that noise limits are achieved. Examples of ventilation which may be appropriate include acoustic louvers. The final form of ventilation must be selected based on the advice of an acoustic consultant. "

5) Noise Limits

I am not confident, based on our modelling, that the 44 dB(A) for the land fill extension can be complied with under all wind conditions. Is there any issue with combining the noise conditions for the site to allow for 47 dB(A) at nuisance sensitive place and 55 dB(A) at a commercial place? This was my recommendation in the previous comments.

I believe this approach has essentially the same outcome as having 2 separate conditions of 44 dB(A) for developments on the same site.

Also, we should consider that any potential complaints may be directed at noise from the whole site combined (transfer station and landfill extension), given the similar types of noise sources (e.g. heavy vehicles, loaders, etc) and use of the same land. In this case, it would be more practical to determine compliance through noise measurements when there is a combined noise limit. If noise from both developments are heard at a receptor simultaneously, then it would be more challenging to determine compliance from each development based on separate conditions.

Finally, the 47 dB(A) and 55 dB(A) combined conditions are more achievable based on predictions (while still having the same affect of 2 separation 44 dB(A) conditions).

Please let me know if you have any queries.

Regards,
 [CTPI 49-Sch4-N]
 Environmental Engineer



Air Noise Environment Pty Ltd

Unit 3, 4 Tombo Street
Capalaba
QLD 4157

Tel: +61 7 3245 7808

Fax: +61 7 3245 7809

Mobile: CTPI 49-Sch4-M4

Email: CTPI 49-Sch4-@ane.com.au

Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Karle Matt

From: Karle Matt
Sent: Friday, 27 January 2012 11:03 AM
To: 'ian.wolff@gympie.qld.gov.au'; 'Tanya Allen'; 'Michael Grant'
Subject: FW: Bonnick Road - Cut-off system discharges

Hello Ian, Tanya and Michael,

I received the email below from Tanya on Friday 20th January 2012 which included an attached email from AGE consultants. In reply, I asked for an interpretation of the attachment. Are you aware whether AGE have provided an interpretation of the data at all?

Also, I sent an email to CTPI 49-Sch4 from ANE regarding some noise matters that arose from our meeting on the 18th January 2012. That email was c/c'd to Ian Wolff. Are you aware whether CTPI will be providing a reply to those enquiries?

Any assistance appreciated.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Karle Matt
Sent: Friday, 20 January 2012 10:50 AM
To: 'Tanya Allen'
Subject: RE: Bonnick Road - Cut-off system discharges

Hi Tanya,

I might need some interpretation of the table attached to the email from James Tomlin of AGE.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Tanya Allen [mailto:Tanya.Allen@gympie.qld.gov.au]
Sent: Friday, 20 January 2012 10:46 AM
To: Karle Matt
Cc: Donald Meyers; Grayden Curry; Ian Wolff; [CTPI 49-Sch4]@exemail.com.au
Subject: Bonnick Road - Cut-off system discharges

Dear Matt,

Please find attached an email from AGE Consultants to [CTPI 49-Sch4] regarding the discharge (flow) expected from the cut-off system.

If you would like to discuss this information, please contact [CTPI 49-Sch4-N] on mobile [CTPI 49-Sch4-M] or email [CTPI 49-Sch4]@exemail.com.au.

Kind Regards

Tanya Allen
Environmental Health Officer | Health & Environmental Services | Community Services
Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
24 Mellor Street, Gympie QLD 4570
PO Box 155 Gympie QLD 4570
e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au
Please consider the environment before printing this email
1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject

to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Karle Matt
Sent: Friday, 27 January 2012 2:04 PM
To: 'ian.wolff@gympie.qld.gov.au'; 'Tanya Allen'; 'Michael Grant'
Subject: Bonnick Road Landfill
Attachments: Draft conditions 2nd amended.pdf

Michael, Ian and Tanya,

Attached is a 2nd amended Draft for the Bonnick Road application. Changes have occurred following a meeting with GRC on 18th January 2012.

Of note however, changes to noise conditions have not occurred. At this stage, no comment has been received from council regarding the matters discussed during the meeting. For expediency and progress with this matter, and given the short decision period remaining, it is considered appropriate to provide a copy of the Draft now.

As per previous drafts, this document is still subject to internal review. Once any negotiation about the Draft is complete between DERM and GRC, DERM will continue to complete internal reviews to enable a recommendation about the application to be made.

Currently a decision about this application is due on 31st January 2012. Time is very short, particularly given consultation on the draft is not yet finalised. DERM is agreeable to negotiate a new decision date with GRC should a *short* extension be required – namely to afford time to finalise consultation on the Draft and to enable DERM to finalise its internal reviews.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

R

Karle Matt

From: Karle Matt
Sent: Friday, 27 January 2012 3:25 PM
To: 'Michael Grant'; 'ian.wolff@gympie.qld.gov.au'; 'Tanya Allen'
Cc: CTPI 49-Sch4-N
Subject: FW: 2298 - Email - SW - Further Comments

Michael, Ian and Tanya,

I've had a read of the information below from CTPI 49-Sch4 and provide the following comments:

1. I can work on a definition for NRC that covers the words below.
2. It is disappointing that lining of bins (inside the bin or outside the bin) is no longer recommended. Minimising the impact noise of waste being disposed into bins in the Transfer Station was considered a positive and proactive measure to demonstrate all reasonable and practical measures being implemented to minimise noise emissions. Such a measure would also minimise noise from the Recovery Building (as it doesn't have the same noise mitigation measures incorporated into the building). I'd have thought the bins in the Transfer Station would be council owned, and would only move between the transfer station and the landfill – hence lining council bins that are kept onsite seemed to be great aspect to the proposal. Is this at all possible?
3. The proposed use of speed bumps in the facility to regulate speed is likely to be a noise source. Introducing sharp sudden bumps along a roadway will cause banging and crashing as harshly spring vehicles bounce over the obstacles, and changing engine revs as vehicles slow and accelerate around the speed bumps. Whilst I acknowledge advice from CTPI 4 that the difference in speed between 20 and 40km/hr may not present a significant noise increase – the method of controlling the speed seems to be a critical aspect to noise management. Other measures to control speed may include visual measures and directional changes, signage and active speed monitoring and enforcement. Are measures **other** than speed bumps able to be used?
4. I can work on wording for ventilation.
5. Noise limits – as council is aware, noise emissions – particularly for the transfer station - are a critical aspect to this application. The application supporting information recently submitted specifically identified measures for the transfer station to assist compliance with a 44dB(A) noise level. That noise level was determined by ANE using DERM's Planning for Noise Control guideline. Given the noise level determined and modelled for is 44dB(A), I don't see an opportunity for DERM to relax the noise level for the transfer station to 47dB(A). Therefore, I don't see an opportunity to provide a single number for the entire site. Given the landfill has a finite life, and has shorter hours for emitting noise on weekends, it may be reasonable to relax the noise level for the landfill to 47dB (A). Any final comments on such a proposal (44dB(A) for transfer station and 47dB(A) for the landfill) would be appreciated. DERM does not propose to relax the noise levels for the Transfer Station.

Any comments appreciated at your earliest convenience.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: CTPI 49-Sch4-Name@ane.com.au]

Sent: Friday, 27 January 2012 2:43 PM

To: Karle Matt

Cc: michael.grant@gympie.qld.gov.au; Ian Wolff; Tanya Allen

Subject: 2298 - Email - SW - Further Comments

Hi Matt,

Thanks for your email. Below are some comments in relation to your queries in the email date 24/1/12.

1) Definition of NRC

I think I understand where you're coming from. It is important to note that NRC and sound absorption coefficient have 2 different definitions:

Sound absorption coefficient (is as per the draft condition's description) - means the amount of acoustic energy absorbed upon striking a particular surface. A sound absorption coefficient of 0 indicates perfect reflection while a value of 1 indicates perfect noise absorption.

NRC Noise Reduction Coefficient - means the *arithmetic average of the sound absorption coefficients* at the four frequencies of 250, 500, 1000 and 2000 Hz.

An NRC of 1, would mean that the sound absorption coefficients at 250, 500, 1000 and 2000 Hz have values of 1. Frequencies (Hz) below 250 and above 2000 are not considered in the calculation of NRC. I suggest DERM includes both definitions in the report. As material suppliers for insulation always provide NRC values, I think it's important to include.

2) Lining on bins

It is noted that a significant portion of the transfer building is to comprise of insulation materials (upper walls and roof), with a high level of sound absorption. The use of insulation will already assist in minimising reverberation of any potential short impulsive noises (e.g. bins hitting ground). Also, it may be difficult to impose bin lining as the bins are provided by contractors.

3) The speed limit is not critical when you're comparing 20 km/h and 40 km/h. The main issue would be controlling vehicles and trucks during acceleration and GRC propose speed bumps to control speed and acceleration.

4) Wording for ventilation

"The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented (with the exception of ventilation openings). Due consideration shall be given to the type of ventilation installed to ensure that noise limits are achieved. Examples of ventilation which may be appropriate include acoustic louvers. The final form of ventilation must be selected based on the advice of an acoustic consultant. "

5) Noise Limits

I am not confident, based on our modelling, that the 44 dB(A) for the land fill extension can be complied with under all wind conditions. Is there any issue with combining the noise conditions for the site to allow for 47 dB(A) at nuisance sensitive place and 55 dB(A) at a commercial place? This was my recommendation in the previous comments.

I believe this approach has essentially the same outcome as having 2 separate conditions of 44 dB(A) for developments on the same site.

Also, we should consider that any potential complaints may be directed at noise from the whole site combined (transfer station and landfill extension), given the similar types of noise sources (e.g. heavy vehicles, loaders, etc) and use of the same land. In this case, it would be more practical to determine compliance through noise measurements when there is a combined noise limit. If noise from both developments are heard at a receptor simultaneously, then it would be more challenging to determine compliance from each development based on separate conditions.

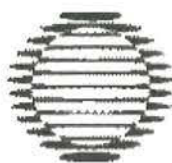
Finally, the 47 dB(A) and 55 dB(A) combined conditions are more achievable based on predictions (while still having the same affect of 2 separation 44 dB(A) conditions).

Please let me know if you have any queries.

Regards,

CTPI 49-Sch4-Na

Environmental Engineer



Air Noise Environment Pty Ltd

Unit 3, 4 Tombo Street

Capalaba

QLD 4157

Tel: +61 7 3245 7808

Fax: +61 7 3245 7809

Mobile: CTPI 49-Sch4-M

Email: CTPI 49-Sch4-@ane.com.au

Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Karle Matt
Sent: Friday, 27 January 2012 2:47 PM
To: CTPI 49-Sch
Subject: RE: 2298 - Email - SW - Further Comments

CTPI 4

Thanks for your email. I will have a read and see how we go.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region
Department of Environment and Resource Management
 Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

From: CTPI 49-Sch4-Name@ane.com.au]
Sent: Friday, 27 January 2012 2:43 PM
To: Karle Matt
Cc: michael.grant@gympie.qld.gov.au; Ian Wolff; Tanya Allen
Subject: 2298 - Email - SW - Further Comments

Hi Matt,

Thanks for your email. Below are some comments in relation to your queries in the email date 24/1/12.

1) Definition of NRC

I think I understand where you're coming from. It is important to note that NRC and sound absorption coefficient have 2 different definitions:

Sound absorption coefficient (is as per the draft condition's description) - means the amount of acoustic energy absorbed upon striking a particular surface. A sound absorption coefficient of 0 indicates perfect reflection while a value of 1 indicates perfect noise absorption.

NRC Noise Reduction Coefficient - means the *arithmetic average of the sound absorption coefficients* at the four frequencies of 250, 500, 1000 and 2000 Hz.

An NRC of 1, would mean that the sound absorption coefficients at 250, 500, 1000 and 2000 Hz have values of 1. Frequencies (Hz) below 250 and above 2000 are not considered in the calculation of NRC. I suggest DERM includes both definitions in the report. As material suppliers for insulation always provide NRC values, I think it's important to include.

2) Lining on bins

It is noted that a significant portion of the transfer building is to comprise of insulation materials (upper walls and roof), with a high level of sound absorption. The use of insulation will already assist in minimising reverberation of any potential short impulsive noises (e.g. bins hitting ground). Also, it may be difficult to impose bin lining as the bins are provided by contractors.

3) The speed limit is not critical when you're comparing 20 km/h and 40 km/h. The main issue would be controlling vehicles and trucks during acceleration and GRC propose speed bumps to control speed and acceleration.

4) Wording for ventilation

"The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented (with the exception of ventilation openings). Due consideration shall be given to the type of ventilation installed to ensure that noise limits are achieved. Examples of ventilation which may be appropriate include acoustic louvers. The final form of ventilation must be selected based on the advice of an acoustic consultant. "

5) Noise Limits

I am not confident, based on our modelling, that the 44 dB(A) for the land fill extension can be complied with under all wind conditions. Is there any issue with combining the noise conditions for the site to allow for 47 dB(A) at nuisance sensitive place and 55 dB(A) at a commercial place? This was my recommendation in the previous comments.

I believe this approach has essentially the same outcome as having 2 separate conditions of 44 dB(A) for developments on the same site.

Also, we should consider that any potential complaints may be directed at noise from the whole site combined (transfer station and landfill extension), given the similar types of noise sources (e.g. heavy vehicles, loaders, etc) and use of the same land. In this case, it would be more practical to determine compliance through noise measurements when there is a combined noise limit. If noise from both developments are heard at a receptor simultaneously, then it would be more challenging to determine compliance from each development based on separate conditions.

Finally, the 47 dB(A) and 55 dB(A) combined conditions are more achievable based on predictions (while still having the same affect of 2 separation 44 dB(A) conditions).

Please let me know if you have any queries.

Regards,

CTPI 49-Sch4-N

Environmental Engineer



Air Noise Environment Pty Ltd

Unit 3, 4 Tombo Street

Capalaba

QLD 4157

Tel: +61 7 3245 7808

Fax: +61 7 3245 7809

Mobile: CTPI 49-Sch4-M

Email: CTPI 49-Sch4@ane.com.au

Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Karle Matt

From: Karle Matt
Sent: Friday, 27 January 2012 3:25 PM
To: 'Michael Grant'; 'ian.wolff@gympie.qld.gov.au'; 'Tanya Allen'
Cc: CTPI 49-Sch4
Subject: FW: 2298 - Email - SW - Further Comments

Michael, Ian and Tanya,

I've had a read of the information below from CTPI 49-Sch4 and provide the following comments:

1. I can work on a definition for NRC that covers the words below.
2. It is disappointing that lining of bins (inside the bin or outside the bin) is no longer recommended. Minimising the impact noise of waste being disposed into bins in the Transfer Station was considered a positive and proactive measure to demonstrate all reasonable and practical measures being implemented to minimise noise emissions. Such a measure would also minimise noise from the Recovery Building (as it doesn't have the same noise mitigation measures incorporated into the building). I'd have thought the bins in the Transfer Station would be council owned, and would only move between the transfer station and the landfill – hence lining council bins that are kept onsite seemed to be great aspect to the proposal. Is this at all possible?
3. The proposed use of speed bumps in the facility to regulate speed is likely to be a noise source. Introducing sharp sudden bumps along a roadway will cause banging and crashing as harshly spring vehicles bounce over the obstacles, and changing engine revs as vehicles slow and accelerate around the speed bumps. Whilst I acknowledge advice from CTPI that the difference in speed between 20 and 40km/hr may not present a significant noise increase – the method of controlling the speed seems to be a critical aspect to noise management. Other measures to control speed may include visual measures and directional changes, signage and active speed monitoring and enforcement. Are measures **other** than speed bumps able to be used?
4. I can work on wording for ventilation.
5. Noise limits – as council is aware, noise emissions – particularly for the transfer station - are a critical aspect to this application. The application supporting information recently submitted specifically identified measures for the transfer station to assist compliance with a 44dB(A) noise level. That noise level was determined by ANE using DERM's Planning for Noise Control guideline. Given the noise level determined and modelled for is 44dB(A), I don't see an opportunity for DERM to relax the noise level for the transfer station to 47dB(A). Therefore, I don't see an opportunity to provide a single number for the entire site. Given the landfill has a finite life, and has shorter hours for emitting noise on weekends, it may be reasonable to relax the noise level for the landfill to 47dB (A). Any final comments on such a proposal (44dB(A) for transfer station and 47dB(A) for the landfill) would be appreciated. DERM does not propose to relax the noise levels for the Transfer Station.

Any comments appreciated at your earliest convenience.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)
 Environmental Services North
 South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: CTPI 49-Sch4-Name@ane.com.au]
Sent: Friday, 27 January 2012 2:43 PM
To: Karle Matt
Cc: michael.grant@gympie.qld.gov.au; Ian Wolff; Tanya Allen
Subject: 2298 - Email - SW - Further Comments

Hi Matt,

Thanks for your email. Below are some comments in relation to your queries in the email date 24/1/12.

1) Definition of NRC

I think I understand where you're coming from. It is important to note that NRC and sound absorption coefficient have 2 different definitions:

Sound absorption coefficient (is as per the draft condition's description) - means the amount of acoustic energy absorbed upon striking a particular surface. A sound absorption coefficient of 0 indicates perfect reflection while a value of 1 indicates perfect noise absorption.

NRC Noise Reduction Coefficient - means the *arithmetic average of the sound absorption coefficients* at the four frequencies of 250, 500, 1000 and 2000 Hz.

An NRC of 1, would mean that the sound absorption coefficients at 250, 500, 1000 and 2000 Hz have values of 1. Frequencies (Hz) below 250 and above 2000 are not considered in the calculation of NRC. I suggest DERM includes both definitions in the report. As material suppliers for insulation always provide NRC values, I think it's important to include.

2) Lining on bins

It is noted that a significant portion of the transfer building is to comprise of insulation materials (upper walls and roof), with a high level of sound absorption. The use of insulation will already assist in minimising reverberation of any potential short impulsive noises (e.g. bins hitting ground). Also, it may be difficult to impose bin lining as the bins are provided by contractors.

3) The speed limit is not critical when you're comparing 20 km/h and 40 km/h. The main issue would be controlling vehicles and trucks during acceleration and GRC propose speed bumps to control speed and acceleration.

4) Wording for ventilation

"The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented (with the exception of ventilation openings). Due consideration shall be given to the type of ventilation installed to ensure that noise limits are achieved. Examples of ventilation which may be appropriate include acoustic louvers. The final form of ventilation must be selected based on the advice of an acoustic consultant."

5) Noise Limits

I am not confident, based on our modelling, that the 44 dB(A) for the land fill extension can be complied with under all wind conditions. Is there any issue with combining the noise conditions for the site to allow for 47 dB(A) at nuisance sensitive place and 55 dB(A) at a commercial place? This was my recommendation in the previous comments.

I believe this approach has essentially the same outcome as having 2 separate conditions of 44 dB(A) for developments on the same site.

Also, we should consider that any potential complaints may be directed at noise from the whole site combined (transfer station and landfill extension), given the similar types of noise sources (e.g. heavy vehicles, loaders, etc) and use of the same land. In this case, it would be more practical to determine compliance through noise measurements when there is a combined noise limit. If noise from both developments are heard at a receptor simultaneously, then it would be more challenging to determine compliance from each development based on separate conditions.

Finally, the 47 dB(A) and 55 dB(A) combined conditions are more achievable based on predictions (while still having the same affect of 2 separation 44 dB(A) conditions).

Please let me know if you have any queries.

Regards,

CTPI 49-Sch4-N

Environmental Engineer



Air Noise Environment Pty Ltd

Unit 3, 4 Tombo Street

Capalaba

QLD 4157

Tel: +61 7 3245 7808

Fax: +61 7 3245 7809

Mobile: CTPI 49-Sch4-I

Email: CTPI 49-Sch4-I@ane.com.au

Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Published on DES Disclosure Log
RTI Act 2009

R

Karle Matt

From: Tanya Allen [Tanya.Allen@gympie.qld.gov.au]
Sent: Friday, 27 January 2012 12:25 PM
To: Karle Matt
Subject: Fwd: FW: Bonnick Road - Cut-off system discharges
Attachments: RE: [Fwd: FW: FW: T5 testing with A29]

Dear Matt,

CTPI 49-Sch4 is going to give you a phone call today to discuss interpreting the graph (estimating the discharges produced by the cut-off system).

CTPI 49-Sch will also give you a phone call to discuss the noise matters.

Kind Regards

Tanya Allen

Environmental Health Officer | Health & Environmental Services | Community Services
 Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
 24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570
 e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au
 Please consider the environment before printing this email
 1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
 3 sheets of A4 paper = 1 litre of water

>>>

From: Tanya Allen
To: CTPI 49-S@exemail.com.au
Date: 27/01/2012 12:20 PM
Subject: Fwd: FW: Bonnick Road - Cut-off system discharges
 Hi CTPI 4

Are you able to give Matt Karle a phone call today to discuss interpreting the graph that was sent in 1 about how the cut-off system discharges were estimated? (attached)

Thanks :-)

Tanya Allen

Environmental Health Officer | Health & Environmental Services | Community Services
 Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
 24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570
 e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au
 Please consider the environment before printing this email
 1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
 3 sheets of A4 paper = 1 litre of water

>>>

From: "Karle Matt" <Matt.Karle@derm.qld.gov.au>
To: <ian.wolff@gympie.qld.gov.au>, "Tanya Allen" <Tanya.Allen@gympie.qld.gov.au>, "Michael Grant" <Michael.Grant@gympie.qld.gov.au>
Date: 27/01/2012 11:03 AM
Subject: FW: Bonnick Road - Cut-off system discharges

Hello Ian, Tanya and Michael,

I received the email below from Tanya on Friday 20th January 2012 which included an attached email from AGE consultants. In reply, I asked for an interpretation of the attachment. Are you aware whether AGE have provided an interpretation of the data at all?

Also, I sent an email to CTPI 49-Sch from ANE regarding some noise matters that arose from our meeting on the 18th January 2012. That email was c/c'd to Ian Wolff. Are you aware whether CTP will be providing a reply to those enquiries?

Any assistance appreciated.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Karle Matt
Sent: Friday, 20 January 2012 10:50 AM
To: 'Tanya Allen'
Subject: RE: Bonnick Road - Cut-off system discharges

Hi Tanya,

I might need some interpretation of the table attached to the email from CTPI 49-Sch4-N of AGE.

Regards

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Tanya Allen [mailto:Tanya.Allen@gympie.qld.gov.au]
Sent: Friday, 20 January 2012 10:46 AM
To: Karle Matt
Cc: Donald Meyers; Grayden Curry; Ian Wolff; [CTPI 49-Sch4]@exemail.com.au
Subject: Bonnick Road - Cut-off system discharges

Dear Matt,

Please find attached an email from AGE Consultants to [CTPI 49-Sch4] regarding the discharge (flow) expected from the cut-off system.

If you would like to discuss this information, please contact [CTPI 49-Sch4] on mobile [CTPI 49-Sch4] or email [CTPI 49-Sch4]@exemail.com.au.

Kind Regards

Tanya Allen
 Environmental Health Officer | Health & Environmental Services | Community Services
 Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
 24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570
 e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au
 Please consider the environment before printing this email
 1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
 3 sheets of A4 paper = 1 litre of water

 This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

Karle Matt

From: ministererm.corro@derm.qld.gov.au

Sent: Tuesday, 27 September 2011 4:09 PM

To: Karle Matt

Subject: CTS No: 16697/11 for your information/input concerning: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that a

CTS No 16697/11 concerning the above is currently assigned to **Blanchard Scott** for action. They have decided that you need to be involved so have sent you a link to this item for your information/input. If they have added comments they will appear below.

Hi Matt, as discussed, I have done a QA on the BN and response. For your amendment. Thanks, Maria.

Please click on the [Item Link](#) to view the item on MECS

If you have any queries please contact Blanchard Scott or officers from Minister Environment by emailing to ministererm.corro@derm.qld.gov.au or via the link [Management Team Link](#).

email: EmailInformationOfficerNotification

Karle Matt

From: Oakley Richard
Sent: Thursday, 27 October 2011 4:22 PM
To: Karle Matt
Subject: Out of Office AutoReply: Gympie - Bonnick Road Landfill

Hi , I am out of the office and return Monday 31st October2011,I will be back in the office and respond Monday, thanks Rich Oakley. Please note this email has not been automatically forwarded.

thank you
Richard Oakley

Published on DES Disclosure Log
RTI Act 2009



Karle Matt

From: [CTPI 49-Sch4-Name]@ane.com.au]
Sent: Thursday, 27 October 2011 4:48 PM
To: Karle Matt
Subject: 2298 - Email - SW - Response to Queries

Hi Matt,

Thanks for the call the other day in relation to the Bonnick Road noise report. I've looked through the criteria section of the report and the limiting criteria is actually the Environmental Protection (Noise) Policy 2008 criteria (presented in Section 2.2). Hence, the noise criteria adopted for the assessment does not change even if we were to review the DERM Planning for Noise Control criteria.

In relation to the absorption for the building, we've already assumed absorptive lining on the roof. For the walls, not much significant benefit (a couple of dB) is predicted with additional absorptive lining.

I gathered from our phone call you had some further queries, but wanted to get the criteria matter out of the way. Would you be able to summarize those additional queries in an email and I can make sure I cover each one?

Regards,

--

[CTPI 49-Sch4-N]
 Environmental Engineer



Air Noise Environment Pty Ltd
 3/4 Tombo Street
 Capalaba
 QLD 4157

Tel: +61 7 3245 7808
 Fax: +61 7 3245 7809
 Mobile: [CTPI 49-Sch4-N]
 Email: [CTPI 49-Sch4-Name]@ane.com.au
 Web: www.ane.com.au

Confidential and Private

The information in this email is intended solely for the recipient(s) named above. All information in this email is privileged and confidential. Air Noise Environment Pty Ltd holds the copyright to this document. It must not be reproduced in part or in full, in hard copy, digital or any other format, by anyone other than the intended recipient without the prior consent of Air Noise Environment Pty Ltd.

This document has been sent in confidence and is relevant only to the issues pertinent to the subject matter contained herein. Air Noise Environment Pty Ltd holds no responsibility for misapplication or misinterpretation by third parties of the contents of this document. If you receive this Email by mistake, please contact Air Noise Environment Pty Ltd on 07 3245 7808 and delete the original email once we have been notified. Thank you for your co-operation in this matter.

Karle Matt

From: Karle Matt
Sent: Tuesday, 27 September 2011 8:53 AM
To: Ian Wolff
Cc: CTPI 49-Sch4-Em@bigpond.com; Christine Kennedy; Grayden Curry; Michael Grant
Subject: RE: Bonnick Road Landfill

Hello Ian,

Thanks for your email. I unexpectedly departed a bit early yesterday afternoon.

On your advice below, the material submitted will be received as councils response to the information request, and assessment of the submitted information undertaken.

In light of Michael Grant's request in the material received for a meeting, and given Michael is away on leave, it may be possible that DERM would seek an extension of the assessment period, which currently requires a decision on or before 14th October 2011. Formal notification of any such extension will be provided to council should it be required, in accordance with the provisions of SPA.

Thanks for clarifying the situation.

Regards

Matt Karle

From: Ian Wolff [mailto:Ian.Wolff@gympie.qld.gov.au]
Sent: Monday, 26 September 2011 4:46 PM
To: Karle Matt
Cc: CTPI 49-Sch4-Em@bigpond.com; Christine Kennedy; Grayden Curry; Michael Grant
Subject: Re: Bonnick Road Landfill

Matt

Further to your e-mail, I confirm that Michael Grant is currently on leave until Monday, 3 October 2011.

Please be advised that advice received from Council's consultant this afternoon (Monday, 26 September 2011) indicates that the documentation provided to DERM is Council's response to the information request.

I trust this clarifies the situation.

Regards

Ian

>>> "Karl Matt" <Matt.Karle@derm.qld.gov.au> 22/09/2011 10:51 AM >>>
Hello Ian.

I understand that Michael Grant is currently on leave. In Michael's absence, I need to discuss some correspondence that was received from Gympie Regional Council on 16th September 2011, dated 14th September 2011 (your reference 2-9-01-0002MG:CMK01045).

The letter refers to DERM information request dated 27th January 2011 and confirms that councils response to the information request is attached (to that correspondence) for our assessment. There were 2 x attachments, both of which are clearly marked as being 'DRAFT'.

The cover letter requests a meeting with DERM to discuss the responses, and invites the reader

to contact Michael to arrange a suitable date and time.

Of primary importance (due to statutory time frames), please confirm whether the material received with this cover letter, marked 'DRAFT', is Council's response to the information request. If that material is Council's reply, then the current decision due date for the application is 14th October 2011 (subject to extension if required). If that material is not Council's response to the information request, then it is important that council note the information request response period lapses on 27th September 2011. A response to the information request is required before that date to keep the application valid / current.

Regarding Michaels for a meeting, allocation of this project to an officer has not yet occurred due to workload volumes in this team. The officer involved in the information request stage is on secondment to another business unit. If a meeting is desired urgently, DERM will make necessary arrangements, however if a meeting is not proposed until after Michael returns to work, please request Michael to contact DERM to propose a meeting time.

I look forward to hearing from you in relation to the submission received at your earliest convenience.

Regards

Matt Karle

A / Manager (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all

R

its attachments.

Published on DES Disclosure Log
RTI Act 2009

MBH 2011/171

MBH 2951-3

4-2-11
DTB
ZMW

Community Services

Phone: (07) 5481 0611
Email: council@gympie.qld.gov.au

Our Ref: 2-9-13-3 MRG:VMK01350
Your Ref: MBH2951-1

28 January 2011

The Manager
DERM
PO Box 101
MARYBOROUGH QLD 4650

Dear Sir

**RE: MATERIAL CHANGE OF USE – BONNICK
ROAD WASTE MANAGEMENT FACILITY
REDEVELOPMENT**

I refer to Council's application for the above project forwarded to you on 25 November 2010 as the concurrence agency.

I confirm that Page 38 of the Noise Assessment submitted with the application was incomplete and a replacement page is enclosed for your information.

Should you wish to discuss this matter further, please telephone Mr Michael Grant on (07)5481 0611.

Yours faithfully

CTPI 49-Sch4-Signature

for C MANSON
ACTING CHIEF EXECUTIVE OFFICER

Enc.

RECEIVED

31 JAN 2011

DEPT OF ENVIRONMENT
& RESOURCE MANAGEMENT
MARYBOROUGH

File A

Enquiries Michelle Wright
Telephone (07) 4121 1853
Your reference 2-9-13-0003 MRG:VMK01396
Our reference MBH2951-3



**Queensland
Government**

28 June 2011

Department of
**Environment and Resource
Management**

Mr Manson – A/Chief Executive Officer
Gympie Regional Council
P.O. Box 155
GYMPIE QLD 4570

Cc: Ms Tanya Stenholm, Gympie Regional Council – Assessment Manager

Dear Mr Manson

We refer to your letter dated 22 June 2011 requesting a two month extension in order that council can respond to the information request issued for application number SPCE01417310 – Bonnick Road Waste Management Facility.

Under section 279 1(b) of the *Sustainable Planning Act 2009*, the Department of Environment and Resource Management agrees to this extension. Your response to the information request is now due by COB on 27 September 2011.

Should you require any further information, please contact Michelle Wright on (07) 4121 1853.

Yours sincerely

CTPI 49-Sch4-Signature

Matt Karle
A/Manager (Wide Bay Burnett)
Environmental Services (North)
South East Region

Karle Matt

From: ministererm.corro@derm.qld.gov.au

Sent: Wednesday, 28 September 2011 12:35 PM

To: Karle Matt

Subject: CTS No: 16697/11 for your information/input concerning: MO URGENT / Gympie / Bonnick Road / Expansion of Waste Management Facility and ERA #60(2)(e) and ERA #62 over Lot 542 on MCH801883 / potential negative impact of proposed development / request that a

CTS No 16697/11 concerning the above is currently assigned to **Corro OER RSD SE** for action. They have decided that you need to be involved so have sent you a link to this item for your information/input. If they have added comments they will appear below.

Hi Scott and Matt, I have made further amendments to the letter and BN. Could you please advise if this is now ok to go to Randall for his endorsement. Thanks, Maria.

Please click on the [Item Link](#) to view the item on MECS

If you have any queries please contact Corro OER RSD SE or officers from Minister Environment by emailing to ministererm.corro@derm.qld.gov.au or via the link [Management Team Link](#).

email: EmailInformationOfficerNotification

R

Assessment report

Environmental Protection Act 1994

Environmentally relevant activities assessed under IDAS

ASSESSMENT NOTES:

1. Each assessment report prepared to support a decision must be structured in the format shown below.
2. Explanatory notes for completing the report are given under each heading in brackets.
3. The report is to be completed, where indicated, to indicate that supervisory review/endorsement has occurred, and the decision stages of the process.

This assessment report is for environmentally relevant activities to be assessed via the Integrated Development Assessment System in the Sustainable Planning Act 2009.

COUNCIL DA NUMBER: MRG:VMK01396	DERM PROJECT NO: 221737
DERM Concurrence Response (CR) NUMBER: SPCE01417310	FILE NO: MBH2951
APPLICATION TYPE: MCU for ERA	
DEVELOPMENT TRIGGER: Landfill and Transfer Station	
DEVELOPMENT DESCRIPTION: Bonnick Road	
LOCATION DESCRIPTION: Bonnick Road, Gympie Qld 4570	
APPLICANT: Michael Ball / Michael Grant	
TRADING AS: Gympie Regional Council	

1. Issues

- Applicant Gympie Regional Council requested the Assessment Manager (Gympie Regional Council) stop the decision making period to make representations to the Department (as Concurrence Agency) under Section 320 of SPA.
- The representations related to authorised hours for noise emissions from the Transfer Station, namely starting times on Saturday and Sunday.
- Currently, the facility is open from 8am. Council requested the weekend starting time for noise emissions from the transfer station be relaxed from 9am to 8am.
- A review of Leq ambient monitoring by ANE consultants over 7 days at 2 separate background monitoring locations reveals virtually no difference for mean median and mode results for each day of the week, for measurements taken quarterly between 5.30am and 9.00am (measured every 15 minutes). Hence, no morning of the week would appear to be particularly quiet compared to other mornings at the 2 separate background monitoring locations.
- Although extensive acoustic measures have been committed to by the applicant for the transfer station, acoustic attenuation for vehicles accessing the site is not directly contained or controlled (ie reliant on vehicle speeds and chicanes etc), caution has been applied to relaxing the start times.
- Shops open on Saturday mornings and residents are likely to be travelling and active on Saturday mornings.
- Sports are often played on Saturday mornings, with people up and active early Saturday mornings;
- Section 440S of the EPAct authorises the use of regulated devices from 7am on Saturdays and business days (8am on Sundays).
- The applicant must continue to comply with the noise level, despite being able to commence emitted noise from 8am instead of 9am on Saturdays.
- Based on the above, EHP is agreeable to relax the start time on Saturdays to 8am, but has applied the precautionary principle and has not agreed to relax the hour by which noise can be emitted from the facility on Sundays at this stage.

R



- Allowing audible noise from the transfer station from 8am on Saturdays (instead of 9am) is unlikely to significantly change the intent of the requirements in EHP's concurrence response, nor the aim of protecting amenity at noise sensitive hours.
- Sunday start time is to remain at 9.00am.
- The applicant has agreed to the change.
- If further relaxation of start time is sought by the applicant in the future, conditions of the approval can be amended where the applicant can demonstrate the relaxation does not increase potential for noise nuisance, and where the applicant can demonstrate the measures installed to mitigate noise are effective.

2. Description of operation

An existing landfill is operating at Bonnick Road, Gympie. The Department recently issued a Concurrence Response for an extension of the landfill and a new transfer station.

3. Emissions, discharges and environmental impacts

- Noise is the emission under consideration in relation to this assessment.

4. Assessment considerations

The assessment must cover the requirements imposed on the assessment manager and concurrence agency by the *Sustainable Planning Act 2009*, the regulatory requirements of the Environmental Protection Regulation 2008, the standard criteria from the *Environmental Protection Act 1994*, and the application materials. The assessing officer must turn their mind to all of the relevant matters and document in this assessment report how each of these requirements has been considered and taken into account in deciding the matter under assessment.

Particular note is to be taken of the regulatory requirements in rr. 58 and 63 of the Environmental Protection Regulation 2008 which may require the assessing officer to recommend refusal of an application in particular circumstances.

i) Sustainable Planning Act 2009 requirements for concurrence agencies

Section 282 of the *Sustainable Planning Act 2009* sets out the matters a referral agency **must**, to the extent relevant to the development and within the limits of its jurisdiction, assess the application against and having regard to.

Note: It is essential that this assessment report reflect the consideration that has been given to the policies, codes and requirements set out in the planning instruments created under the provisions of the *Sustainable Planning Act 2009*.

Legislative considerations Assess the application against—	State how considered and any conditions that follow
(a) the State planning regulatory provisions applied by the referral agency	<p>State Planning Regulatory Provisions</p> <p><u>Draft Particular Waste Management Activities on Existing Landfills State Planning Regulatory Provisions – in effect as published in the Government Gazette</u></p> <p>N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPRP as it came into affect after the department's referral day for the application</p>

Environmentally relevant activities assessed under IDAS

Legislative considerations Assess the application against—	State how considered and any conditions that follow
	(s282(3) SPA 2009).
(b) the regional plan for a designated region, to the extent it is not identified in the planning scheme as being appropriately reflected in the planning scheme	<p>Regional Plans</p> <p><u>Wide Bay Burnett Regional Plan (September 2011)</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the Plan as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p>
(c) for a concurrence agency—any applicable concurrence agency codes that are identified as a code for IDAS in this or another Act	<p>Environmental Protection Act 1994 & Environmental Protection Regulation 2008 The proposed development has been assessed against the relevant requirements of the above legislation, as detailed throughout this assessment report.</p> <p>Wild Rivers Code N/A – not in a declared Wild River Area.</p> <p>Code of Environmental Compliance N/A</p>
<p>(d) State planning policies applied by the referral agency, to the extent the policies are not identified in—</p> <p>(i) any relevant regional plan as being appropriately reflected in the regional plan; or</p> <p>(ii) the planning scheme as being appropriately reflected in the planning scheme</p> <p>Note: There are important State Planning Policies that must be considered and taken into account when assessing an application for an environmentally relevant activity.</p>	<p>SPPs – applied by DERM</p> <p><u>SPP 2/02 Planning and Managing Development Involving Acid Sulfate Soils 1.0</u> Reflected in the Cooloolo Shire Council Planning Scheme.</p> <p><u>SPP4/10 Healthy Waterways</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009). Furthermore, this policy does not apply as the development is outside the scope being an application for an MCU for an ERA (s2.10).</p> <p><u>SPP5/10 Air, Noise and Hazardous Materials</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009). Furthermore, not applicable as the development is not for a 'sensitive land use' and is not located in a 'management area'.</p> <p><u>SPP4/11 Protecting Wetlands of High Ecological Significance in Great Barrier Reef Catchments</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p> <p><u>SPP 3/11 Coastal Protection</u></p>

R

Assessment report
Environmentally relevant activities assessed under IDAS

Legislative considerations Assess the application against—	State how considered and any conditions that follow
	<p>N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p> <p><u>SPP 1/12 Protection of Queensland's Strategic Cropping Land</u></p> <p>N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p>
(e) the laws that are administered by, and the policies that are reasonably identifiable as policies applied by, the referral agency	. Considered above in (a) – (d).

Legislative considerations Assess the application having regard to—	State how considered and any conditions that follow
(a) the State planning regulatory provisions ¹ not applied by the referral agency	<p>State Planning Regulatory Provisions</p> <p><u>Wide Bay Burnett State Planning Regulatory Provisions 2011</u></p> <p>N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPRP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p>
<p>(b) State planning policies not applied by the referral agency, to the extent the policies are not identified in—</p> <p>(i) any relevant regional plan as being appropriately reflected in the regional plan; or</p> <p>(ii) the planning scheme as being appropriately reflected in the planning scheme</p> <p>Note: There are important State Planning Policies that must be considered and taken into account when assessing an application for an environmentally relevant activity.</p>	<p>SPPs – not applied by DERM</p> <p><u>SPP 1/92 Development and the Conservation of Agricultural Land 1.0</u></p> <p>Reflected in the Cooloola Shire Council Planning Scheme (see below).</p> <p><u>SPP2/07 Protection of Extractive Resources</u></p> <p>Not applicable. Development not located within a Key Resource Area, a resource/processing area, separation area nor a transport route's separation area.</p>
(c) the structure plan for any declared master planned area	None known – applied by council
(d) the master plan for any declared master planned area	None known – applied by council
(e) a temporary local planning instrument for the	None known – applied by council

¹ Under section 16 of SPA, a **State planning regulatory provision** is an instrument made under division 2 and part 6 of SPA for an area to advance the purpose of SPA by—

(a) providing regulatory support for regional planning or master planning; or
(b) providing for a charge for the supply of infrastructure; or
(c) protecting planning scheme areas from adverse impacts.

A State planning regulatory provision includes a draft State planning regulatory provision that under section 73 of SPA has effect as a State planning regulatory provision.

Legislative considerations Assess the application having regard to—	State how considered and any conditions that follow
<i>planning scheme area</i>	
(f) <i>the planning scheme</i>	<p>The subject site is zoned Community in the Cooloolo Shire Council Planning Scheme and is located adjacent to Industry, Rural and other Community zones.</p> <p><u>SPP 1/92 Development and the Conservation of Agricultural Land 1.0</u></p> <p>The planning scheme overlay map OM8 Sheet 1 shows that the site contains both Class A and Class B Good Quality Agricultural Land (GQAL). The surrounding land to the development also contains a mix of Class A and B GQAL, with dominant Class A GQAL occurring west of Gympie township.</p> <p>Resource Areas Code (Division 7.9) would appear to apply to the subject site due to the presence of GQAL. The site has been used for landfilling since approximately 1980. The site has no remaining agricultural values. Ongoing use of the landfill for landfilling and waste management will not impact on any remaining lands surrounding the site for potential agricultural purposes. Also noteworthy, ongoing use of the site for waste management minimises the need to establish a new landfill on land that may have agricultural use.</p> <p>The location of the site and zoning of adjacent allotments would not facilitate use of the land for agricultural purposes.</p> <p><u>SPP 2/02 Planning and Managing Development Involving Acid Sulfate Soils 1.0</u></p> <p>Not applicable. Not identified as an area containing acid sulphate soils.</p>
(g) <i>if the land to which the application relates is designated land—its designation</i>	As per the Cooloolo Shire Council Planning Scheme, the proposed development does not contain designated land.

ii) Sustainable Planning Act 2009 requirements for assessment managers

Chapter 6, part 5, division 2 of the *Sustainable Planning Act 2009* sets out the assessment process for the assessment manager. Section 313 of the *Sustainable Planning Act 2009* sets out matters the assessment manager must, to the extent relevant to the development, assess the application against and having regard to.

Note: It is essential that this assessment report reflect the consideration that has been given to the policies, codes and requirements set out in the planning instruments created under the provisions of the *Sustainable Planning Act 2009*.

Legislative considerations Assess the application against—	State how considered and any conditions that follow
(a) <i>the State planning regulatory provisions</i>	DERM is a referral agency – hence NA
(b) <i>the regional plan for a designated region, to the</i>	DERM is a referral agency – hence NA

R

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Assess the application against—	State how considered and any conditions that follow
<i>extent it is not identified in the planning scheme as being appropriately reflected in the planning scheme</i>	
<i>(c) any applicable codes, other than concurrence agency codes the assessment manager does not apply, that are identified as a code for IDAS under SPA or another Act</i>	DERM is a referral agency – hence NA
<i>(d) State planning policies, to the extent the policies are not identified in—</i> <i>(i) any relevant regional plan as being appropriately reflected in the regional plan; or</i> <i>(ii) the planning scheme as being appropriately reflected in the planning scheme</i> Note: There are important State Planning Policies that must be considered and taken into account when assessing an application for an environmentally relevant activity.	DERM is a referral agency – hence NA
<i>(e) any applicable codes in the following instruments—</i> <i>(i) a structure plan;</i> <i>(ii) a master plan;</i> <i>(iii) a temporary local planning instrument;</i> <i>(iv) a preliminary approval to which section 242 of SPA applies;</i> <i>(v) a planning scheme</i>	DERM is a referral agency – hence NA
<i>If the assessment manager is not a local government, the laws that are administered by, and the policies that are reasonably identifiable as policies applied by, the assessment manager and that are relevant to the application, are taken to be applicable codes in addition to the applicable codes mentioned in (c) or (e) above</i>	DERM is a referral agency – hence NA

Legislative considerations Assess the application against—	State how considered and any conditions that follow
<i>(a) the common material²</i>	DERM is a referral agency – hence NA
<i>(b) any development approval for, and any lawful use of, premises the subject of the application or adjacent premises</i>	DERM is a referral agency – hence NA
<i>(c) any referral agency's response for the application</i>	DERM is a referral agency – hence NA
<i>(d) the purposes of any instrument containing an applicable code</i>	DERM is a referral agency – hence NA

² In schedule 3 of SPA **common material**, for a development application, means—

- (a) all the material about the application the assessment manager has received in the first 3 stages of IDAS, including—
 - (i) any concurrence agency requirements, advice agency recommendations and contents of submissions that have been accepted by the assessment manager; and
 - (ii) any advice or comment about the application received under section 256 of SPA; and
- (b) if a development approval for the development has not lapsed—the approval; and
- (c) an infrastructure agreement applicable to the land the subject of the application.

Environmentally relevant activities assessed under IDAS

iii) Regulatory requirements

A regulatory requirement is defined under the EP Act and includes a requirement under an environmental protection policy or a regulation for the administering authority to—

- (a) grant or refuse to grant, or follow stated procedures for evaluating, a development application for which the administering authority is the assessment manager or a referral agency; or
- (b) impose, change or cancel a condition of a development approval for a chapter 4 activity.

An environmental management decision (EMD) is defined in r. 48 of the EP Reg as a decision under the EP Act for which the administering authority making the decision is required to comply with regulatory requirements.

a. Regulatory requirements for all environmental management decisions (rr. 51-53 EP Reg)

Matters to be considered for EMDs (EP Reg r. 51)

Legislative considerations	State how considered and any conditions that follow
<p>(a) Each of the following under any relevant environmental protection policies—</p> <ul style="list-style-type: none"> (i) the management hierarchy (ii) environmental values (iii) quality objectives (iv) the management intent 	<p>As the representation from the applicant relates to relaxation on noise emissions (from 8am to 9am on weekends), only noise has been considered in the below assessment.</p> <p>Noise Policy</p> <p>The application contained a noise report that assessed noise emissions from the proposed landfill AND transfer station (stage 1), and from just the Transfer Station (Stage 2). The Department issued a concurrence response in February 2012 authorising noise emissions from the transfer station between the hours of 9am and 4pm on weekends. The applicant made representations to the Department regarding the permitted hours for noise emissions, advising the facility must be able to emit noise from 8am on Saturdays and Sundays.</p> <p>The applicant justified the request on the grounds the landfill is the main facility for the Gympie region, and demand to access the facility from 8.00am on weekends would be required. The applicant advised that with the acoustic measures to be implemented, potential for noise nuisance by authorising audible noise from 8.00am would not cause a nuisance.</p> <p>Whilst the Department acknowledges there may be a need to commence earlier on Saturdays, the lack of surety by noise consultants about noise emissions, given the noise emission profile is modelled, the Department considered that it would not be appropriate to relax hours for audible noise on Sundays. In the event access demand to the transfer station between 8am and 9am on Sundays is high, the applicant may apply to amend conditions of the development approval in the future, and based on the actual performance of the noise mitigation measures.</p> <p>The Department remains concerned about noise nuisance, and the need to protect amenity, particularly at noise sensitive times, particularly on weekends.</p> <p>The applicant has agreed with the stance of the department regarding the proposed relaxation of hours for audible noise.</p> <p>The only change under this assessment is to authorise audible noise from the facility from 8am on Saturdays instead of 9am. All other noise requirements remain.</p>
(aa) Environmental values declared under the EP Reg	
(b) The characteristics of the contaminants or	Noise emissions have been carefully regulated in the concurrence response,

Environmentally relevant activities assessed under IDAS

Legislative considerations	State how considered and any conditions that follow
<i>materials released from carrying out the activity</i>	<p>with conditions that strive to afford a reasonable scope for the operation of the landfill (noting landfilling is an existing activity at the site), whilst also striving to protect noise values of the receiving environment.</p> <p>The department has agreed to authorise noise from 8am on Saturdays, rather than 9am, and will issue an amended concurrence response.</p>
<i>(c) The nature and management of, including the use and availability of technology relating to, the processes being, or to be, used in carrying out the activity</i>	NA.
<i>(d) The impact of the release of contaminants or materials from carrying out the activity on the receiving environment, including the cumulative impact of the release with other known releases of contaminants, materials or wastes</i>	An existing landfill operates on the site in question, and has done since the early 1980's. That existing facility is authorised to commence emitting noise from 8.00am on weekends. Relaxing the concurrence response to authorise noise from the transfer station only from 9am to 8am on Saturdays is unlikely to result in a significant increase in potential nuisance, particularly given other noise management commitments and requirements for the new transfer station and landfill operating hours remain in place.
<i>(e) The characteristics of the receiving environment and the potential impact on it from carrying out the activity;</i>	<p>The receiving environment is predominantly residential or undeveloped open space. Residential development has occurred on several sides of the existing landfill. The surrounding land use is sensitive to potential emissions from the proposed TS and landfill.</p> <p>Due to the measures to be implemented, and restricted operating hours for the landfill, it is anticipated the transfer station will not cause any additional nuisance, if it commences emitting noise from 8.00am on Saturdays.</p>
<i>(f) For each affected person³ for the activity—the order of occupancy or use between the person carrying out the activity and the affected person</i>	<p>The existing landfill has been operating at the site for an extended period of time, exceeding the term of most residence in new estates nearby the facility. Of note, a landowner immediately north of the site raised objection to the proposed landfill extension and transfer station. That landowner contacted the department after it issued its concurrence response in February 2012 indicating the conditions were generally good and likely to protect amenity at his property.</p> <p>The department does not consider relaxing the authorised hours to emit noise from 9am to 8am on Saturdays only, for the Transfer station only, to significantly increase potential impacts at the neighbouring landowners property.</p>
<i>(g) The remaining capacity of the receiving environment to accept contaminants or wastes released from future activities while protecting the environmental values</i>	Whilst noise emissions from the TS have the potential to impact the values of the receiving environment, those impacts were considered extensively in the initial assessment. Given the extent of work committed and required in EHP's concurrence response, relaxing audible noise emission start time from 9am to 8am on Saturdays only, from the transfer station only, is not likely to exceed the acoustic qualities sought by the department to protect amenity. Consideration is given to general community movements on Saturdays, with shops open and services generally available on Saturday mornings. It is also the case that the EP Act authorises noise from Regulated Devices (lawn mowers leaf blowers etc) from 7am on Saturdays. Whilst the background monitoring data does not support a quieter morning on Sundays than any

³ **Affected person**, for an activity, means a person affected, or who may be affected, by the release of a contaminant or waste from carrying out the activity.

Environmentally relevant activities assessed under IDAS

Legislative considerations	State how considered and any conditions that follow
	<p>other day of the week at 2 separate background locations, the general activity of the community on Saturdays is generally considered to be quite different to that of a Sunday. Residents should expect and appreciate a quieter morning on Sundays.</p> <p>Audible noise from the transfer station from 8am on Saturdays is unlikely to significantly change the intent of the requirements in EHP's concurrence response.</p>
<i>(h) The quantity and type of greenhouse gases released, and the measures proposed to demonstrate the release is minimised using best practice methods that include strategies for continuous improvement</i>	<p>No change to greenhouse gas emissions is anticipated with this change. Vehicles accessing the site from 8am would have accessed the site at 9am. Waste received at the transfer station will not be stored for a significantly longer period of time, because the change is only 1 hour, on one day of the week. There is no amendment to the operating hours of the landfill under this change.</p>

Conditions to be considered for EMDs (EP Reg r. 52)

Legislative considerations	State how considered and any conditions that follow
<i>(a) Implementing a system for managing risks to the environment</i>	Site management plan condition in the CR. Design of the landfill and transfer station aim to minimise impacts to receiving environment – many of the design measures have been prescriptively included as conditions in the CR. Also, conditions on the CR require monitoring, to provide early detection of impacts to the receiving environment.
<i>(b) Implementing measures for avoiding or minimising the release of contaminants or waste</i>	NA
<i>(c) Ensuring an adequate distance between any sensitive receptors and the relevant site for the activity to which the decision relates (For example—a condition requiring riparian buffers, noise buffers or buffers for protecting endangered regional ecosystems)</i>	NA.
<i>(d) Limiting or reducing the size of the initial mixing zone or attenuation zone⁴, if any, that may be affected by the release of contaminants</i>	NA
<i>(e) Treating contaminants before they are released</i>	NA
<i>(f) Restricting the type, quality, quantity, concentration or characteristics of contaminants that can be released</i>	Noise emissions are restricted in hours and quantity, and actively managed using abatement and absorption methods, as discussed elsewhere in this AR. The only change here is relaxation of audible noise from 9am to 8am on Saturdays and only from the transfer station.
<i>(g) The way in which contaminants may be released (for example—a condition restricting the release of a contaminant at a particular temperature, velocity or rate or during particular meteorological conditions or</i>	NA

⁴ **Attenuation zone** means the area around a release of contaminants to groundwater in which the concentration of the contaminants in the release is reduced to ambient levels through physico-chemical and microbiological processes.

Legislative considerations	State how considered and any conditions that follow
<i>water flows or a condition restricting the release of a contaminant to a depth below the level of surface waters)</i>	
<i>(h) Ensuring a minimum degree of dispersion happens when a contaminant is released (for example—a condition requiring the use of a diffuser for releasing a contaminant)</i>	NA
<i>(i) Protecting environmental values, and meeting quality objectives, under relevant environmental protection policies</i>	The amendment from 9am to 8am on Saturdays for the transfer station only is unlikely to decrease values. All other measures required in the concurrence response remain in effect..
<i>(j) Recycling, storing, transferring, or disposing of waste in a particular way</i>	NA.
<i>(k) Rehabilitating land to achieve particular outcomes</i>	NA
<i>(l) Measures for the ongoing protection of environmental values that are, or may be, adversely affected by the activity.</i>	NA

Matters to be considered for decisions imposing monitoring conditions⁵ (EP Reg r. 53)

Legislative considerations	Details of how considered and any conditions
<i>(a) The potential impact on the receiving environment of the activity to which the decision relates and the release of the contaminant</i>	Monitoring requirements remain unaltered
<i>(b) The characteristics of the contaminant</i>	NA.
<i>(c) The potential for a control measure to fail and the effect of a failure of a control measure on the receiving environment</i>	Noise attenuation requirements for the transfer station remain as per the commitments and requirements of the existing concurrence response.
<i>(d) The protocols relevant to monitoring the release of the contaminant</i>	No change
<i>(e) Whether the</i>	No change.

⁵ **Monitoring condition**, about the release of contaminants from an activity on the receiving environment, means a condition about any of the following matters—

- (a) monitoring the quantity, quality, characteristics, timing and variability of the release;
- (b) monitoring indicators of the effective operation of control measures;
- (c) monitoring the characteristics of the receiving environment;
- (d) assessing the effectiveness of remedial or rehabilitation measures;
- (e) monitoring the impact of the release on the values, objectives and biota in the receiving environment;
- (f) analysing monitoring data against objectives and standards including, for example, by predictive modelling;
- (g) reporting the results of monitoring in a stated form and timeframe;
- (h) reporting on the time and way in which the release is made to the receiving environment.

Environmentally relevant activities assessed under IDAS

Legislative considerations	Details of how considered and any conditions
<i>monitoring should be continuous or intermittent</i>	

b. Additional regulatory requirements for particular EMDs (EP Reg rr. 55-64)

Indicate which of the list of matters in Part A applies for this application. Provide further information only for the applicable matters in Part B. The matters that do not apply can be deleted in Part B.

Part A – Identifying whether an additional regulatory requirement will apply

Considerations An activity that involves or may involve:	State how considered and provide additional detail in Part B where relevant
The release of water or waste to land (relevant land) (EP Reg r. 55)	NA.
The release of water, other than stormwater, to surface water (EP Reg r. 56)	NA
The release of stormwater to the receiving environment (EP Reg r. 57)	NA.
The release of water or waste to a referable wetland or a significant coastal wetland for treatment (EP Reg r. 58 – potential refusal)	NA.
Berthing, docking or mooring a boat (EP Reg r. 59)	N/A
Storing or moving bulk material (EP Reg r. 60). Examples of bulk material—alumina, cement, coal, grain, metaliferous ores, quarried materials, woodchips.	N/A
Disturbance of acid sulfate soil (EP Reg r.61)	NA
Disturbance of acid-producing rock (EP Reg r. 62). Example of an activity involving disturbance of acid-producing rock—tailings from processing acid-producing rock in a	NA

mining operation.	
The release of waste directly to groundwater (the receiving groundwater) (EP Reg r. 63 – potential refusal). Example of direct release of waste to groundwater—an activity involving the release of contaminated water to groundwater through a well, deep-well injection or a bore.	NA
The release of contaminants indirectly to groundwater (EP Reg r. 64). Example of indirect release of waste to groundwater—storage of contaminated water in a pond allowing infiltration of contaminated water to groundwater.	NA

Part B – Assessing relevant additional regulatory requirements

Release of water or waste to land (EP Reg r. 55)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) <i>The topography, including the flooding potential of the relevant land</i>	NA
(b) <i>The climatic conditions affecting the relevant land</i>	NA
(c) <i>The available land on which the water or waste can be released</i>	NA.
(d) <i>The storage of the water or waste in wet weather</i>	NA
(e) <i>The way in which the water or waste will be released to the relevant land</i>	NA
(f) <i>The need to protect soil and plants on the relevant land from damage</i>	NA
(g) <i>The potential for infiltration of the water or waste to the groundwater</i>	NA
(h) <i>The potential for generation of aerosols or odours from the water or waste</i>	NA

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(i) The impact of any transfer or run-off of contaminants from the relevant land to surface waters	NA
(j) The ongoing availability of the land for the release of the water or waste	NA

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) Developing and implementing a land release management plan ⁶ for the relevant area that protects the environmental values affected, or that may be affected, by the activity	NA
(b) The way in which, or rate at which, the water or waste may be released	NA
(c) Releasing the water or waste in a way that minimises infiltration to groundwater	NA
(d) If the water or waste is to be transferred to another entity – the circumstances under which the transfer may occur	NA

⁶ **Land release management plan**, for the relevant area, means a plan that achieves the following outcomes for the area—

- (a) the efficient application of water or waste using best practice methods;
- (b) control of sodicity in the soil;
- (c) minimal degradation of soil structure;
- (d) control of the build-up, from water, waste or other sources, of nutrients and contaminants in the soil and subsoil;
- (e) prevention of subterranean flows of contaminants to waters;
- (f) prevention of impact of infiltration on groundwater resources;
- (g) prevention of run-off by controlling the rate of application of water or waste, and by using structures, including, for example, tailwater dams;
- (h) prevention of surface ponding;
- (i) prevention of spraydrift or overspray from the relevant area;
- (j) prevention of damage to native vegetation;
- (k) reporting the results of monitoring, and an assessment of the impact on the groundwater in the relevant area of the release of the water or waste.

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(e) <i>Releasing the water to a bio-retention system, including for example, a constructed wetland, for the removal of nutrients from the water</i>	NA

Release of water other than stormwater to surface water (EP Reg r. 56)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) <i>Any available toxicity data relevant to the release and the receiving environment;</i>	NA
(b) <i>If there is an initial mixing zone— (i) whether there is any practicable alternative that would reduce or eliminate the initial mixing zone; and (ii) whether the size of the initial mixing zone is likely to adversely affect an environmental value or the ecological condition of the receiving environment, including, for example, a watercourse or wetland; and (iii) whether concentrations of contaminants in the initial mixing zone are acutely toxic to the biota</i>	NA

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) <i>Releasing the water to tidal waters only during particular tidal conditions, including, for example, phases of the tide</i>	N/A
(b) <i>Releasing the water to non-tidal waters only if the rate of flow of the surface water is greater than a particular level</i>	N/A

Release of stormwater to the receiving environment (EP Reg r. 57)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) <i>The topography of, and climatic conditions affecting, the receiving environment;</i>	NA
(b) <i>If the activity involves exposing or disturbing soil—the soil type, its characteristics and the way it is managed;</i>	NA
(c) <i>If the activity involves the storage of materials or wastes</i>	NA

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
<i>that are exposed to rainfall or stormwater run-off—the characteristics and containment of the material or waste;</i>	

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) diverting upstream stormwater run-off away from the area contaminated or disturbed by the activity (the affected area);	NA
(b) minimising the size of the affected area;	NA
(c) covering, paving, roofing and cleaning the affected area;	NA
(d) cleaning the affected area without using water;	NA
(e) analysing and managing soil;	NA

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(f) installing and maintaining appropriate control measures; Examples of control measures—bio-retention system, buffers for improving waste water quality, first flush stormwater diversion systems, oil separators, rubbish traps, sediment fences, sediment traps (for example—bio-retention system, buffers for improving waste water quality, first flush stormwater diversion systems, oil separators, rubbish traps, sediment fences, sediment traps)	NA
(g) treating the affected area (for example—mulching, revegetating, using surface covers or soil agglomerants)	NA.

Release of water or waste to particular wetlands⁷ for treatment (EP Reg r. 58)

Legislative considerations The application must be refused if—	State how considered and any conditions that follow
(a) the wetland will be destroyed ⁸ or reduced in size ⁹	NA.
(b) the biological integrity of the wetland may not be maintained	N/A

⁷ This applies to referable wetlands and significant coastal wetlands. **Referable wetland** means an area shown as a wetland on a document called 'Map of referable wetlands' made available by the chief executive. **Significant coastal wetland** has the same meaning as in the State coastal management plan.

State coastal management plan means the State coastal management plan prepared under the *Coastal Protection and Management Act 1995*.

⁸ Describe in what way the wetland will be destroyed (e.g. bulldozed, loss of water supply etc.)

⁹ Provide details of the measured area before development and the expected area after development. What is the anticipated reduction in size? Provide analysis as to whether the reduction in size is significant in terms of the original area.

Activity involving berthing, docking or mooring a boat (EP Reg r. 59)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) The availability of facilities for collecting and disposing of wastes generated from the boat	N/A
(b) Whether to impose a condition to provide facilities for collecting and disposing of wastes generated from the boat	N/A
Examples of waste generated from a boat—bilge waste, garbage, sewage	

Activity involving storing or moving bulk material (EP Reg r. 60)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) The chemical and physical characteristics of the material	N/A
(b) The way in which the material is, or is to be, contained during each stage of the storage or movement of the material	N/A
(c) The methods of cleaning up any spillage during movement of the material	N/A
(d) If storage or movement of the material is likely to result in the release of part of the material into waters, the impact of the accumulation of the material on the bed of the waters	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) Installing and maintaining appropriate control measures (for example—installing devices for collecting dust at places where bulk material is being moved; installing dust collectors at transfer points; enclosing, roofing or screening equipment used for storing or moving bulk material)	N/A
(b) Managing stockpiles of the material in a particular way (for example—setting a maximum height for a stockpile)	N/A
(c) Collecting, removing or disposing of spillage released while moving the material	N/A
(d) Monitoring the impact of releases of contaminants or waste from storing or moving bulk materials on the receiving environment including, for example, the impact of environmental nuisance and impacts on the biota of adjacent waters	N/A

Activity involving disturbance of acid sulfate soil¹⁰ (EP Reg r. 61)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) 'State Planning Policy 2/02—Planning and Managing Development Involving Acid Sulfate Soils' (SPP 2/02)	N/A
(b) The guideline for SPP 2/02 (the guideline). Note—The guideline states that it may be used as a source of general advice on investigation and management of acid sulfate soils for situations outside the scope of SPP 2/02	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) Minimising the generation of contaminated water	N/A
(b) Treating acid sulfate soils	N/A
(c) Treating or disposing of leachate and run-off	N/A
(d) Managing the fluctuations in the watertable	N/A
(e) Maintaining minimum levels of cover over any buried acid sulfate soils	N/A

Activity involving disturbance of acid-producing rock¹¹ (EP Reg r. 62)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) the physical and chemical characteristics of the rock	N/A
(b) the potential of the rock to generate or neutralise acidity	N/A
(c) the characteristics of the leachate leaching from, or potentially leaching from, the rock including, in particular, contaminants in the leachate that are likely to cause environmental harm if released to the environment	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
--	---

¹⁰ **Acid sulfate soil** means actual acid sulfate soil or potential acid sulfate soil. **Actual acid sulfate soil** means soil or sediment containing highly acidic soil horizons or layers affected by the oxidation of iron sulfides. **Potential acid sulfate soil** means soil or sediment containing iron sulfides or other sulfidic material that has not been exposed to air and oxidised. **Disturbance, of acid sulfate soil**, means disturbance of the soil by—

(a) excavating or removing the soil; or
(b) exposing the soil to air; or
(c) changing the level of groundwater.

¹¹ **Acid-producing rock** means rock containing sulfidic minerals that have the potential to oxidise and generate acidity. **Disturbance, of acid-generating rock**, means disturbance of the rock by—

(a) excavating or removing the rock; or
(b) exposing the rock to air; or
(c) changing the level of groundwater.

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) The ways in which waste may be disposed of or stored, including for example, the location of areas for waste disposal or storage	NA
(b) Minimising the ingress of oxygen or water to areas used, or to be used, for waste disposal or storage	NA
(c) Inhibiting the generation of acidity from waste rock, including for example, through using particular treatments	NA
(d) Processes for collecting, storing and treating any generated leachate	NA
(e) Monitoring of the waste disposal and storage areas including, for example, the water balance and oxygen levels	NA
(f) monitoring the potential seepage zone for indications of the formation of acid rock drainage	NA

Activity involving direct release of waste to groundwater¹² (EP Reg r. 63)

Legislative considerations The application must be refused if—	State how considered and any conditions that follow
(a) For an application other than an application relating to an environmental authority for a petroleum activity—the waste is not being, or may not be, released entirely within a confined aquifer ¹³	NA
(b) The release of the waste is affecting adversely, or may affect adversely, a surface ecological system	N/A
(c) The waste is likely to result in a deterioration in the environmental values of the receiving groundwater	N/A

Release of contaminants to groundwater (r. 64)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) The geological stability of the relevant site for the activity	NA
(b) The location, quality and use, or potential use, of the receiving groundwater	NA
(c) The permeability of the earth under the place where the	NA

¹² Example of direct release of waste to groundwater—an activity involving the release of contaminated water to groundwater through a well, deep-well injection or a bore.

¹³ **Confined aquifer** means an aquifer that is contained entirely within impermeable strata.

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
<i>activity is carried out</i>	
<i>(d) The presence of containment devices at the relevant site for the activity and their effectiveness in preventing or minimising the release of the waste</i>	NA
<i>(e) The distance separating the receiving groundwater from any containment device</i>	NA
<i>(f) The potential for fluctuations in the level of the receiving groundwater</i>	NA
<i>(g) The way in which materials, including contaminants, will be removed from the containment system</i>	NA.
<i>(h) Whether or not materials, including contaminants will be removed from the containment devices and if so, the effectiveness of the methods that will be used for the removal</i>	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
<i>(a) The design, construction, function, protection and maintenance of containment devices</i>	NA
<i>(b) Maintaining a particular distance between the receiving groundwater and the point of contact between each containment device and the underlying earth</i>	NA
<i>(c) Removing materials from the containment devices</i>	N/A

iv) Standard criteria (as applicable)

NOTE: when considering the standard criteria, comments related only to those considered relevant are required. For criteria considered not relevant to the matter, no notation is made. Information provided should reflect the complexity of issues for the application. Example text is provided for guidance.

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
<i>(a) the principles of ecologically sustainable development as set out in the 'National Strategy for Ecologically Sustainable Development'</i>	NA.

R

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
E.g. The proponent has demonstrated the principles of ecologically sustainable development by proposing cleaner production techniques, waste minimisation and best practice environmental management programs. The decision made to issue the permit has integrated the long and short term economic, environmental, social and equity considerations.	
<i>(b) any applicable environmental protection policy</i> E.g. The EPPs on water, air, noise and waste have been considered during the assessment of this application. The objectives and standards of EPP—water, air, noise and waste management have been incorporated in preparing the resulting conditions.	The change is unlikely to result in a conflict with the aim and intent of the Noise policy..
<i>(c) any applicable Commonwealth, State or local government plans, standards, agreements or requirements</i> E.g. The local government statutory plans have been considered. In addition NHMRC and ANZECC guidelines have been used to assist in benchmarking environmental performance. The information provided by the company has been considered in conjunction with the nature of the industry, and the receiving environment.	NA
<i>(d) any applicable environmental impact study, assessment or report</i> E.g. An EIS has been conducted and background information reviewed. In order to assess the impact of the proposal, baseline data on ambient air and surface water quality have been reviewed. Ongoing monitoring is recommended to assess ongoing impact of the facility. The environmental assessment report and the information contained in the application were considered while processing this application.	A neighbouring land owner commissioned consultants to undertake noise and odour assessments. Those reports have been submitted to DERM, and have been reviewed by the assessing officer. Those reports are discussed elsewhere in this assessment report. The change is unlikely to significantly change the conclusions made by the department when assessing the application and issuing its concurrence response in February 2012
<i>(e) the character, resilience and values of the receiving environment</i> E.g. The current zoning of the subject site and surrounding areas and the location of	Discussed elsewhere in this AR.

R

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
sensitive land uses have been considered.	
<p><i>(f) all submissions made by the applicant and submitters</i></p> <p>E.g. There were no submissions as there was no public notification process. The application has been considered.</p>	<p>Discussed at length in the AR for the concurrence response.</p> <p>The submitter contacted the department after it issued its concurrence response, and provided positive comment about the requirements in the concurrence response about noise.</p> <p>Authorising audible noise from 9am to 8am on Saturdays only, from the transfer station only, is unlikely to be objectionable to the neighbouring submitter.</p> <p>The neighbouring submitted was concerned this amendment process would significantly diminish the requirements of the concurrence response. A change of 1 hour on one day of the week is considered a minor change.</p>
<p><i>(g) the best practice environmental management for activities under any relevant instrument, or proposed instrument, as follows—</i></p> <p><i>(i) an environmental authority;</i></p> <p><i>(ii) a transitional environmental program;</i></p> <p><i>(iii) an environmental protection order;</i></p> <p><i>(iv) a disposal permit;</i></p> <p><i>(v) a development approval</i></p> <p>E.g. The proposed plant is designed to be an efficient modern facility. The proponents have adopted the principles of waste minimisation and cleaner production in preparing their environmental policy. This policy extends to reduce the amount of waste generated at the site.</p>	NA
<p><i>(h) the financial implications of the requirements under an instrument, or proposed instrument, mentioned in paragraph (g) as they would relate to the type of activity or industry carried out, or proposed to be carried out, under the instrument</i></p>	NA
<p><i>(i) the public interest</i></p> <p>E.g. No public submissions or enquires have been received for the application. The environmental values of the local community will be protected by the proposed conditions.</p>	<p>Given the commitments and requirements of the concurrence response, amending authorised audible noise from 9am to 8am on one day of the week, from the transfer station only, is unlikely to generate a change in public interest regarding this development.</p>
<p><i>(j) any applicable site management plan</i></p> <p>E.g. There is no site management plan for</p>	NA

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
contaminated land for this site. OR The Contaminated Land Unit was consulted about the site management plan for this site. (Include details).	
(k) any relevant integrated environmental management system or proposed integrated environmental management system	Nil
(l) any other matter prescribed under a regulation	Nil

v) Native title comments following notification (if applicable)

Considered by PALM.

vi) Notifiable activity (if applicable)

Land filling is a Notifiable activity. The site in question is already a landfill, and is already listed on the EMR.

vii) Wild river area consideration (if applicable)

Not applicable

5. Consultations

Consultations include:

- Michael Grant, Ian Wolffe, Tania Allen, Grayden Curry, Bob Ashford – GRC
- Tanya Stenholme – GRC
- ANE consultants – Noise consultants engaged by GRC

6. Project constraints

Noise emissions from the proposed activity were a major consideration for the department when it issued its Concurrence response in February 2012, and remains a major consideration with this amended decision notice. Whilst relaxing noise conditions would raise concern by potentially affected residents, the impact of relaxing the starting time for audible noise from 9am to 8am is unlikely to generate negative actual impacts (as opposed to perceived impacts).

The Department negotiated not to amend the starting time for the transfer station on Sundays, in order to protect amenity at a sensitive hour of the week. The need for the change on Sunday, vs the perceived potential impacts was not justified by the applicant, and hence not supported at this stage.

7. Point source database

Decision does not authorise a release of contaminants, and the client would not report on this activity to the PSD.

Copy of development approval or the original development approval and subsequent decision notices has been sent to: psd.help@derm.qld.gov.au

Yes

☐

No

☒

8. Recommendation

It is recommended that the proposed development should be:

Environmentally relevant activities assessed under IDAS

Select:	If approved select:	If approved, also select:
☒ Approved or	☒ With a development permit or	☒ With conditions or
☐ Refused	☐ With a preliminary approval or	☐ No conditions
	☐ In part only	

Recommend amend condition authorising noise from the transfer station on Saturdays, from 9am to 8am.

Assessing Officer: Matt Karle

Signed:

CTPI 49-Sch4-Signature

Date: 24 May 2012

9. Review and endorsement

Manager/Director: Tim Brain

Signed:

Date:

CTPI 49-Sch4-Signature

Delegate: Tim Brain

Signed:

Date:

29 May 2012

Amended Concurrence Agency Response

This notice is issued by the Department of Environment and Heritage Protection pursuant to section 290 (concurrence agency response) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
PO Box 155]
Gympie Qld 4570

cc. Mr Michael Grant
Gympie Regional Council
PO Box 155
Gympie Qld 4570

Our reference: 221737
MBH2951

Re: Amended Concurrence Agency Response

1. Application Details

Assessment Manager ref.: 2010-1765

Date application referred to Department of Environment and Resource Management (now
Department of Environment and Heritage Protection):

21 December 2010

Development approval applied for:

Development permit

Aspect of development:

Material change of use - Environmentally relevant activities	Sustainable Planning Regulation 2009 - Schedule 7, table 2, item 1	EHP ref. no. - SPCE01417310
---	---	--

Development description:

Environmentally Relevant Activity 60 – Waste Disposal, 2(e) –
Operating a facility for disposing of, in a year, more than 20,000t to
50,000t

Property/Location description:

Lot 542, MCH801883

R

Notice
Amended Concurrence Agency Response

2. The Chief Executive, Department of Environment and Heritage Protection (EHP) concurrence agency response referral jurisdiction for the aspect of development involved with the application the subject of this Notice is to tell the assessment manager as follows.
- (a) Conditions must attach to any development approval, and those conditions are attached to this Notice.

4. **Approved plans / specifications**

As per attached conditions

5. **General advice to assessment manager**

Pursuant to sections 334 and 363 of the Act, a copy of a decision notice or negotiated decision notice issued by the assessment manager must be forwarded to EHP as a referral agency for the relevant application at Department of Environment and Resource Management, PO Box 101, Maryborough 4650, and an electronic copy to eco.access@DERM.qld.gov.au.

The State's Native Title Work Procedures provide that responsibility for assessment of native title issues for an IDAS application rests with the assessment manager. Therefore, EHP as a referral agency for the relevant application has not provided notification to native title parties.

6. **Additional comments or advice about the application**

Nil

7. **Additional information for applicants**

CTPI 49-Sch4-Signature

Delegate

Tim Brain

Delegate, Chief Executive administering the *Environmental Protection Act 1994*,
Department of Environment and Resource Management

29 May 2012

Enquiries:

Matt Karle

Department of Environment and Resource
Management

Wide Bay Burnett

PO Box 101

Maryborough Q 4650

Phone: 4121 1618

Fax: 4121 1650

Email: matt.karle@DERM.qld.gov.au

Attachment(s)

*Sustainable Planning Act 2009***EHP Permit ¹ number:**

Assessment manager reference (if any):	2010-1765
Date initial application received:	21 December 2010
Date Representation to EHP as a referral agency received	26 March 2012
Permit type:	Amended Concurrence Agency Response
Date of decision:	29 May 2012
Decision:	For a concurrence agency response ERA 60 - Land filling operations – Approved subject to conditions. ERA 62 – Transfer Station – Approved subject to conditions Conditions must attach to any development approval
Relevant laws and policies:	<i>Environmental Protection Act 1994</i> and any related statutory instruments and subordinate legislation
Jurisdiction(s):	<i>Sustainable Planning Regulation 2009</i> – Schedule 7, table 2, item 1

Development Description(s)

Property/Location		Development
Bonnick Road, Gympie	Lot 542, MCH801883	ERA 60 – Waste Disposal, 2(e) – Operating a facility for disposing of, in a year, more than 20,000t to 50,000t
Bonnick Road, Gympie	Lot 542, MCH801883	ERA 62 – Waste Transfer Station Operation

Reason(s) for inclusion of conditions

In accordance with section 289 of the *Sustainable Planning Act 2009*, the reason(s) for inclusion of conditions stated in this permit required by the concurrence agency response for the application are as follows.

The conditions are included pursuant to section 73B of the Environmental Protection Act 1994.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Heritage Protection.

CTPI 49-Sch4-Signature

Delegate

Tim Brain

Delegate, Chief Executive administering the *Environmental Protection Act 1994*.

Department of Environment and Heritage Protection

29 May 2012

CONDITIONS

ERA 60 – Land filling operations

Schedule 1A - Activity

Existing landfill and Landfill Extension

- (1A1-1) This development approval relates to land filling on land described as Lot 542, on Plan MCH801883.
- References throughout these conditions to the existing landfill refers to the area of landfill depicted in Figure 1 at Schedule 1H.
 - References throughout these conditions to the Landfill Extension refers to the area of landfill depicted in Figure 1 at Schedule 1H.
 - Where a condition does not make reference to a specific area, the condition apply's to the approved premises generally, and will not be restricted to either the existing landfill or landfill extension.

Prevent and/or Minimise Likelihood of Environmental Harm

- (1A2-1) In carrying out the environmentally relevant activity, you must take all reasonable and practicable measures to prevent and/or minimise the likelihood of environmental harm being caused. Any environmentally relevant activity that, if carried out incompetently or negligently, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner and at least in accordance with the conditions of this approval.

Maintenance of Measures, Plant and Equipment

- (1A3-1) The Registered Operator must:
- (i) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and
 - (ii) maintain such measure, plant and equipment in a proper and efficient condition; and
 - (iii) operate such measures, plant and equipment in a proper and efficient manner.

Records

- (1A4-1) Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.

Investigation into Alternative Waste Management Practices

- (1A5-1) You are required to investigate alternative waste management practices to maximise, where possible, recycling and diversion of waste from being disposed to landfill.
- For the purpose of satisfying this condition in accordance with the waste management hierarchy and principles of the *Waste Reduction and Recycling Act 2011*, on or before 1 December 2012 you must conduct:
- (i) a strategic waste management assessment, and include as a target, an aim to achieve a recycling or diversion from land filling at a rate of at least 70%; and
 - (ii) report estimated recycling and diversion rates and any progress made in achieving the 70% target to the administering authority with each annual return after within 2 months of the end of each financial year after 1 December 2012.

Closure and Post-Closure Care

- (1A6-1) Prior to cessation of waste deposition to any landfill unit, a cover system to the landfill unit must be progressively installed such that when waste deposition into the landfill unit ceases:
- (i) infiltration of water into the landfill unit is minimised;
 - (ii) the likelihood of any erosion occurring to either the final cover system or the land filled materials is minimised; and
 - (iii) un-controlled release of landfill gas is actively managed.
- (1A6-2) Post-closure care of the landfill must be conducted following the cessation of the deposition of waste in the landfill unit, for:
- (i) a period of 30 years; or
 - (ii) such shorter period until the landfill unit and surrounding site are geo-technically stable and that no release of waste materials, leachate, landfill gas or other contaminants to the environment is likely.

- (1A6-3) A site management plan pursuant to Chapter 7, Part 8, Division 5 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 you intend to take for compliance with the closure and post-closure care requirements of this approval.

Security

- (1A7-1) All reasonable and practical measures must be implemented to ensure unauthorised access to the premises to which this development approval relates is prevented.

Fire Prevention

- (1A8-1) Clear access to a water supply for fire fighting vehicles must be provided at all times.
(1A8-2) An effective fire break must be provided and maintained.

Notification

- (1A9-1) Telephone the Department of Environment and Heritage Protection Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval
- (1A9-2) Notwithstanding condition (1A9-1), within 10 days of becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval, provide the following written advice to the administering authority:
- available analysis results; and
 - details of investigation or corrective actions taken or proposed; and
 - advice when any outstanding or subsequent analysis results will be provided
 - advice when any subsequent analysis will be carried out to verify the success of any corrective actions taken.
 - the name of the operator, including their approval / registration number;
 - the name and telephone number of a designated contact person;
 - quantity and substance released;
 - any vehicle involved and its registration details;
 - person/s involved;
 - the location and time of the event / release or monitoring result;
 - the suspected cause of the event or release;
 - a description of the effects of the release on the receiving environment.

Spill Kit

- (1A10-1) An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes associated with the Environmentally Relevant Activity must be kept at the site.

Information

- (1A11-1) Erect at the entrance and/or other prominent locations, signs maintained in good repair, written in a language appropriate for the user population and giving the following information:
- the name of the site and a telephone contact number for site information;
 - that disposal of waste is prohibited without the direction or permission of the landfill operator; and
 - details of the facility opening hours.

Site Based Management Plan

- (1A12-1) From commencement of the approved activity, 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.
- (h) Conducting environmental impact assessments.
- (i) Staff training.
- (j) Record keeping.
- (k) Periodic review of environmental performance and continual improvement

Site Development Plan

(1A13-1) As part of the SBMP required by condition (1A12-1) the Registered Operator must develop and implement a Site Development Plan (SDP). The SDP must be reviewed on an annual basis and be kept up to date so that it covers at least the subsequent 5 years development of the landfill. The SDP must address at least the following issues:

- dimensions of landfill units used for waste disposal or storage; and
- an accurate level survey of any area to be utilised for the disposal or storage of wastes. The levels must be reduced to a common datum and related to contour plans; and
- the approximate dimensions of each landfill unit and dimensions of the active waste disposal face; and
- 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; and
- approximate location of any sedimentation pond, and / or pump wells to be used or other facilities, plant and equipment installed as part of a leachate collection, storage and recirculation system; and
- location of any stormwater drains or diversion embankments existing or to be constructed; and
- 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.
- location of bores required by condition (1C6-1)

END OF CONDITIONS FOR SCHEDULE 1A

Schedule 1B - Air

Nuisance

(1B1-1) The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.

Dust Nuisance

(1B2-1) The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.

(1B2-2) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, you must undertake dust and particulate monitoring to investigate environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of the monitoring. Monitoring must include:

- (i) procedures and reporting undertaken in accordance with the **Air Quality Sampling Manual**; and
- (ii) for a complaint alleging dust nuisance, dust deposition; and
- (iii) 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; and
- (iv) be carried out in or at a place(s) relevant to the potentially affected dust sensitive places and upwind control sites.

29-5-12

Management of Landfill Gas

- (1B3-1) The release of landfill gas must not cause environmental harm.
- (1B3-2) Landfill gas is not considered to cause environmental harm if:
- (i) a landfill gas collection system is installed and maintained when the landfill unit is sufficiently elevated to allow adequate draining of gas lines; and
 - (ii) landfill gas monitoring shows that the release of methane does not exceed the following limits:
 - (a) 500 ppm at a height of 50 mm above the final and/or intermediate cover surface including the batter slopes of the landfill unit;
 - (b) 25 percent of the lower explosive limit when measured in facility structures (but excluding facility structures used for landfill gas control and landfill gas recovery system components); and
 - (c) the lower explosive limit at the landfill facility boundary.

Landfill Gas Monitoring

- (1B4-1) The assessment of compliance with the methane limits at a height of 50 mm above the final and intermediate cover surface of the landfill unit prescribed by (1B3-2) must be undertaken at the following locations:
- (i) on a grid pattern where the grid lines are no more than 50m apart; and
 - (ii) at any other locations where visual observations indicate potentially elevated concentrations of landfill gas, for example cracks, seeps in cover and distressed vegetation.
- (1B4-2) A landfill gas monitoring network must be installed for each landfill unit to assess compliance with methane limits for facility structures and at the boundary prescribed by (1B4-1). The network must consist of gas monitoring devices, such as monitoring bores and be developed by a person possessing appropriate qualifications and experience in the fields of hydrogeology and landfill gas monitoring program design to be able to competently make recommendations about these matters.
- (1B4-3) Conduct and keep records of landfill gas monitoring that is performed at the following frequencies:
- (i) at least annually to assess compliance with the methane limit at a height of 50 mm above the cover surface of the landfill unit prescribed by condition (1B3-2); and
 - (ii) at least annually to assess compliance with methane limits for facility structures and at the boundary prescribed by condition (1B3-2).

END OF CONDITIONS FOR SCHEDULE 1B

Schedule 1C - Water**Contaminant Releases to Waters**

- (1C1-1) Only clean, uncontaminated stormwater runoff from final landforms that are vegetated and rehabilitated and groundwater in accordance with condition (1C5-1), is permitted for direct release from the approved premises.
- (1C1-2) Stormwater runoff from **disturbed areas** at the existing landfill must be directed to drainage areas designed and maintained to minimise sediment release from the existing landfill. Design measures may include (but are not limited to) vegetated drainage swales and rock and sediment sumps or weirs within the approved premises.
- (1C1-3) Stormwater runoff from **disturbed areas** at the landfill extension must be directed to a sedimentation pond, which must be sufficiently constructed, operated and maintained to contain the runoff expected from a 24 hour storm with an average recurrence interval of 1 in 10 years.
- (1C1-4) Settled/treated stormwater runoff from the sedimentation pond must only be released from the following discharge location:
- W2: overflow from sedimentation pond to a tributary of Peter and Paul Gully.

Surface Water Monitoring

- (1C2-1) Monitoring of contaminant releases must be undertaken at the monitoring points described below for each discharge location and records kept, for the quality characteristics and at the frequency specified in Schedule 1C – Table 1:

Monitoring points:

- W1- clean water bypass around the landfill discharging to Peter and Paul Gully; and
- W2- overflow from the sedimentation pond; and
- W3- ambient monitoring upstream of the landfill in Peter and Paul Gully; and
- W4- ambient monitoring downstream of the landfill in Peter and Paul Gully;
- W5 Groundwater Cut Off System monitoring point

- (1C2-2) All determinations of water quality from the monitoring prescribed by condition (1C2-1) above must be made in accordance with methods prescribed in the *Monitoring and Sampling Manual 2009 Environmental Protection (Water) Policy 2009*, available from the Department of Environment Heritage Protection.
- (1C2-3) Results of monitoring required by Condition (1C2-1) must be compiled and an interpretation of the results reported to the Administering Authority with each Annual Return.

Schedule 1C – Table 1 (Release Limits)

Monitoring Point	Quality Characteristics	Units of Measure	Monitoring Frequency
W1, W2, W3 and W4	pH	pH units	Weekly in the event of a release
W1, W2, W3 and W4	Suspended solids	mg/L	Weekly in the event of a release
W1, W2, W3 and W4	Temperature	Degrees celcius	6 Monthly
W1, W2, W3 and W4	Electrical Conductivity	µS/cm	6 monthly
W1, W2, W3 and W4	Dissolved Oxygen	mg/L	6 Monthly
W2, W3 and W4	Biological Oxygen Demand	mg/L	6 Monthly
W2, W3 and W4	Chloride	mg/L	6 monthly
W2, W3 and W4	Sodium	mg/L	6 monthly
W2, W3 and W4	Nitrate	mg/L	6 Monthly
W2, W3 and W4	Ammonia	mg/L	6 monthly
W2, W3 and W4	Iron (dissolved)	mg/L	6 monthly
W2, W3 and W4	Manganese	mg/L	6 Monthly

*N/A means not applicable

*NS means not specified

Landfill as a 'Bioreactor' Investigation

- (1C3-1) A Management Plan detailing the successful operation of both the existing landfill and the landfill extension as a Bioreactor must be developed within 6 months from the effective date of this Development Approval. The management plan must include (but not necessarily be limited to) the following matters:
- goals to be achieved from operating the landfill as a bioreactor;
 - measures and procedures that will minimise the generation of leachate;
 - existing leachate quality for the parameters stated in Schedule 1C Table 2
 - expected changes in leachate quality and quantity during the life of the landfill that demonstrates the landfill is effectively operating as a bioreactor;
 - expected changes in leachate quality and quantity that would suggest the landfill is not effectively operating as a bioreactor;
 - methods of leachate recycling that maximise the successful performance of the landfill as a bioreactor;
 - circumstances where leachate must be removed from the site (quality or quantity)
 - disposal and treatment options for leachate that must be removed from the site;
 - general information about the capability of any external disposal or treatment facility that may receive leachate from the site, taking into consideration (among other things):

- a) the treatment or disposal capability of the facility; and
 - b) any environmental discharges from the selected treatment or disposal facility to the environment, and whether receipt of leachate from the landfill will affect the performance of the facility, and / or cause harm to the receiving environment.
- a monitoring program for leachate quality being circulated within the landfill.

Schedule 1C Table 2 – Leachate quality parameters

Quality Characteristic
pH
Total Dissolved Salts (TDS)
Water Level
Temperature
Electrical Conductivity - EC
Ammonia
Total Nitrogen
Nitrate (NO ₃)
Ammonia (NH ₄)
Biological Oxygen Demand (BOD)
Heavy Metals (Al, Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sn, Sb, Se, Ti, Zn)
Total Organic Carbon (TOC)
Cations (Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺)
Anions (Cl ⁻ , CO ₃ , HCO ₃ ⁻ , SO ₄ ²⁻)
Total Organochlorines
Total Organophosphates
Organics (VOC, SVOC, TPH)
Total Organic Halogen (TOX)
Alkalinity (CaCO ₃)
Chemical Oxygen Demand (COD)
Total Dissolved Salts

(1C3-2) The management plan required by Condition (1C3-1) must be incorporated into the Site Based Management Plan required by Condition (1A12-1)

(1C3-4) The management plan required by Condition (1C3-1) must be submitted to the administering authority within 7 months of the effective date of this Development approval.

Leachate Collection

(1C4-1) A leachate collection system must be installed and maintained to effectively:

- (i) collect leachate generated in the landfill extension;
- (ii) provide connectivity between the existing landfill and the landfill extension;
- (iii) convey collected leachate to a designated collection or recovery point;
- (iv) provide an access point for leachate quality and quantity monitoring; and
- (v) ensure leachate remains contained within the liner system, including during or following periods of high rainfall.

Groundwater

(1C5-1) A groundwater cut off system must be installed to ensure groundwater levels beneath the Landfill Extension do not come into contact with any containment liner system, nor adversely affect the integrity or performance of any containment liner system for the Landfill Extension.

(1C5-2) The groundwater cut off system required by Condition (1C5-1) must be:

- i) Designed by a suitably qualified, experienced and **independent person**.
- ii) Installed under the supervision of a suitably qualified, experienced and **independent person**.
- iii) Certified by that **independent person** as being installed as per the design.
- iv) Monitored and maintained as necessary to ensure compliance with conditions (1C5-1).

(1C5-3) The groundwater cut off system must be designed, installed, certified and operational prior to the deposit of any waste in the Landfill Extension.

(1C5-4) The groundwater cut off system must also provide leachate leak detection for the landfill extension, during both the life of the landfill and for a period up to 30 years post closure, or as otherwise defined in the post closure management plans required by Conditions (1A6-2) and (1A6-3).

- (1C5-5) The groundwater cut off system must be designed and constructed to provide an access point/s (Monitoring point W5) that;
- allows for monitoring and sample collection at a designated collection sump;
 - allows for the collections of samples that are representative of the entire groundwater cut off system; and
 - is not otherwise contaminated by other sources (namely the collection sump for the leachate collection system).
- (1C5-6) Liquid intercepted by the groundwater cut off system, which is released to Peter and Paul Gully, must be analysed for the characteristics and at the monitoring frequency prescribed in Schedule C Table 3.

Schedule 1C - Table 3 Monitoring requirements for Groundwater Cut Off System

Quality Characteristic	Frequency		
	Monitoring Location	During Land filling, when liquid is present at monitoring point required by (1C5-5)	Pre-Land filling Baseline Monitoring
Water Level	W5	Monthly	Quarterly prior to the commencement of land filling at the landfill extension.
Temperature	W5	Monthly	
pH	W5	Quarterly	
Total Dissolved Salts (TDS)	W5	Quarterly	
Electrical Conductivity - EC	W5	Quarterly	
Ammonia	W5	Quarterly	
Total Nitrogen	W5	Quarterly	
Nitrate (NO ₃)	W5	Quarterly	
Ammonia (NH ₄)	W5	Quarterly	
Biological Oxygen Demand (BOD)	W5	Quarterly	
Heavy Metals (Al, Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sn, Sb, Se, Ti, Zn)	W5	Quarterly	
Total Organic Carbon (TOC)	W5	Quarterly	
Cations (Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺)	W5	Quarterly	
Anions (Cl ⁻ , CO ₃ , HCO ₃ ⁻ , SO ₄ ²⁻)	W5	Quarterly	
Total Organochlorines	W5	Annually	
Total Organophosphates	W5	Annually	
Organics (VOC, SVOC, TPH)	W5	Annually	
Total Organic Halogen (TOX)	W5	Annually	
Alkalinity (CaCO ₃)	W5	Annually	
Chemical Oxygen Demand (COD)	W5	Annually	
Total Dissolved Salts	W5	Annually	

Groundwater Monitoring

- (1C6-1) A Groundwater monitoring network must be installed for each landfill unit. The network must be:
- (i) installed and maintained 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; and
 - (ii) include a sufficient number of "bore(s) of compliance", constructed in accordance with the "Minimum Construction Requirements for Water Bores in Australia" (Agricultural and Resource Management Council of Australia and New Zealand 1997), that are located not more than 150 metres from the landfill unit or the boundary of the landfill facility whichever is the closer, and provides the following:
 - representative groundwater samples from the uppermost aquifer and from the lower (confined) aquifer; and
 - background groundwater quality in hydraulically up-gradient or background bore(s) that have not been affected by any release of contaminants to groundwaters; and

- the quality of groundwater down gradient of any release of contaminants to groundwater including groundwater passing the relevant bore(s) of compliance.

- (1C6-2) Conduct monitoring and keep records of groundwater quality. All determinations of groundwater quality must be:
- made in accordance with methods prescribed in the Water Quality Sampling Manual and, where appropriate, in accordance with standards ISO 5667-11 1993 or AS/NZ 5667.11: 1998 Water Quality – Sampling – Guidance on sampling at Groundwaters and ISO 5667-18: 2001 Water Quality Sampling – Part 18 – Guidance on Sampling of Groundwater at Contaminated Sites;
 - conducted for the water quality characteristics and at the frequency in Schedule 1C - Table 4;
 - taken from sufficient monitoring points and/or wells to obtain representative samples of groundwater both up-gradient and down-gradient of the potential influence;
 - carried out with sufficient regularity and spatial and temporal replication to make statistically valid conclusions about the presence or absence of a release;
 - carried out with sufficient number of sampling events to determine ambient water quality and natural variability prior to any development of the site occurring;
 - followed by an assessment of whether or not there has been any statistically significant adverse change compared to background values at locations hydraulically down gradient of the landfill unit for each quality characteristic in Schedule 1C - Table 4.

Schedule 1C – Table 4 Monitoring requirements for groundwater quality

Quality Characteristic	Frequency	
	During Land filling	Pre-Land filling Baseline Monitoring
Water Level	Monthly	Quarterly prior to the commencement of land filling at the landfill extension.
Temperature	Monthly	
Total Dissolved Salts (TDS)	Quarterly	
pH	Quarterly	
Electrical Conductivity - EC	Quarterly	
Ammonia	Quarterly	
Total Nitrogen	Quarterly	
Nitrate (NO ₃)	Quarterly	
Ammonia (NH ₄)	Quarterly	
Biological Oxygen Demand (BOD)	Quarterly	
Heavy Metals (Al, Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sn, Sb, Se, Ti, Zn)	Quarterly	
Total Organic Carbon (TOC)	Quarterly	
Cations (Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺)	Quarterly	
Anions (Cl ⁻ , CO ₃ ²⁻ , HCO ₃ ⁻ , SO ₄ ²⁻)	Quarterly	
Total Organochlorines	Annually	
Total Organophosphates	Annually	
Organics (VOC, SVOC, TPH)	Annually	
Total Organic Halogen (TOX)	Annually	
Alkalinity (CaCO ₃)	Annually	
Chemical Oxygen Demand (COD)	Annually	
Total Dissolved Salts	Annually	

- (1C6-3) On any occasion that samples are obtained in accordance with condition (1C6-2) the Registered Operator must measure and record standing groundwater levels in metres accurate to 0.01 metres. The elevation of the reference point, relative to Australian Height Datum, for use in any groundwater level measurement must be determined to an accuracy of 0.01 metres.

Monitoring Review and Summary

- (1C7-1) All groundwater monitoring required by this Development Approval must be reviewed on an annual basis by an independent person with suitable qualifications and experience to summarise and interpret the results regarding any impacts on the values of the receiving water environment.

- (1C7-2) The review and interpretation of water monitoring results required by Condition (1C7-1) must be provided as a report to the administering authority on an annual basis with each Annual Return.

Prohibition of Use of Certain Materials for Dust Suppression

- (1C8-1) The following materials must not be used for dust suppression purposes:

- used oil; and
- landfill gas condensate; and
- any other material that has been in contact with waste, such as leachate or stormwater runoff from any exposed waste.

Landfill Cell and Pond Construction

- (1C9-1) All ponds used for the storage or treatment of contaminants (including any sediment pond) at or on the authorised place must be constructed, installed and maintained:
- (i) so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any waters (including ground water);
 - (ii) using suitable banks and / or diversion drains so as to exclude clean stormwater runoff from entering the pond or structure,
 - (iii) using suitable banks to exclude any rising waters from Peter and Paul Gully during a flood event, sufficient to exclude at least a Q100 flood event;
 - (iv) so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and
 - (v) so as to ensure the stability of the ponds' construction.
- (1C9-2) Soils and other materials used in the construction of any waste disposal cells or subcells, above ground embankments, sediment pond and final cover must achieve a hydraulic conductivity which is sufficiently low and be of sufficient thickness so as to prevent or minimise the release of contaminants. As a minimum, the permeability of various landfill features must at least comply with the corresponding limits specified in Schedule 1C – Table 5.
- (1C9-3) Following construction of any landfill unit, above ground embankment, leachate collection pond, or sediment pond, and prior to that structure being commissioned, the permeability of the base and walls of the structure must be tested to ensure it meets the standards required by the conditions of this development approval.
- In each structure tested at least the following number of permeability tests must be made:
- at least two permeability tests in each wall of the subject structure; and
 - at least one permeability test in the base of the subject structure for every 10 000 m² of base area or part thereof.
- (1C9-4) To demonstrate compliance with Condition (1C9-2) and Schedule 1C Table 5, permeability testing must at least include laboratory testing, and subsequent field testing involving Nuclear Density Testing and Microwave Moisture Verification, and must be certified as meeting the prescribed permeability by a suitably qualified and experienced independent person.
- (1C9-5) The landfill extension must incorporate a liner system, capable of containing waste and leachate within the landfill development, and minimise the potential for leachate to be released from the approved premises as seepage.
- (1C9-6) Any landfill cell or sub-cell, above ground embankment, leachate collection pond, sediment pond and final cover must be constructed and operated in accordance with the requirements specified in Schedule 1C – Table 5.

Schedule 1C – Table 5
(Permeabilities and Special Requirements for Landfill Features)

Landfill Feature	Minimum Permeability (m sec ⁻¹)	Minimum Thickness (mm)	Special Requirements
Liner sub base	1 x 10 ⁻⁸	600mm	- Preparation of low permeability clay base beneath the clay liner
Geosynthetic Clay Liner	Equivalent of 600mm of clay with a permeability of at least 1x10 ⁻⁹	Equivalent of 600mm of clay with a permeability of at least 1x10 ⁻⁹	
Confining Layer	Not specified	300	
Base and walls of sediment pond	1x10 ⁻⁷		<ul style="list-style-type: none"> - Sediment pond is not to receive stormwater runoff that has been in contact with waste. - Sediment pond is a sediment control device for runoff from disturbed areas only.
Daily landfill cover	Not specified	200	<ul style="list-style-type: none"> - Non – dispersive soil. - Cover must be applied following the last application of waste for the day. - No waste protruding - Alternatively, for the active face only, use of a temporary cover such as a 'landfill lid' or other proprietary product that assists to contain odours; minimise wind blown litter; and which assists to control vermin is an acceptable solution where the proprietary product completely covers the active face.
Final landfill cover, comprising:			
- Daily landfill cover	Not specified	200	
- Low permeability cap	1 x 10 ⁻⁸	500	
- Soil sub – base	Not specified	200 – 300	
- Topsoil	Not Specified	At least 150	<ul style="list-style-type: none"> - Final landfill cap should not exceed 20 percent slope - No waste protruding

Stormwater Management Plan

- (1C10-1) As part of the SBMP required by condition (1A12-1) the Registered Operator must develop and implement a Stormwater Management Plan which addresses at least the following issues:
- diverting clean upstream stormwater away from contaminated areas; and
 - containing contaminated stormwater on site; and
 - minimising the size of contaminated areas; and
 - provision of sedimentation dams and rubbish traps; and
 - minimising the size of disturbed areas by staging works and progressively revegetating or mulching disturbed areas.
 - Minimising the size of any active face, including measures to cover the active face when not in use (utilising either day cover or temporary and moveable proprietary products).

END OF CONDITIONS FOR SCHEDULE 1C

Schedule D - Noise

- (1D1-1) Noise from the approved activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.
- (1D1-2) Mulching of green waste is not permitted at the site.

- (1D1-3) Crushing, milling or grinding of concrete waste is not permitted at the site.
- (1D1-4) In the event of a complaint about noise that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive or commercial place.
- (1D1-5) In the event noise monitoring is required by the Administering Authority, noise from the approved activity must not exceed the levels specified in Schedule D - Table 1 at any nuisance sensitive or commercial place.

**Schedule D – Table 1
(Noise Levels)**

Time Period	Proponent Noise level at a 'Nuisance Sensitive Place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	47 dB(A) or background noise level plus 3 dB(A), whichever is the higher
Time Period	Noise level at a 'Commercial place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	55 dB(A) or background noise level plus 5 dB(A), whichever is the greater

- (1D1-6) No audible noise from the approved premises is authorised at a nuisance sensitive premises (including noise from the use of vehicles, plant and equipment) between the hours 5:00pm to 7:00am Monday to Friday, and 3:00pm to 10:00am Saturday and Sunday.

Noise Monitoring

- (1D2-1) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance within 14 days, and the results of that monitoring provided to the administering authority once received from any external consultant with an interpretation of the results against the authorised noise levels prescribed by Condition (1D1-5). Monitoring must include:
- background noise level;
 - $L_{Aeq, adjT}$, $L_{Amax, adj, T}$, $L_{A10, adjT}$
 - 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.
- (1D2-2) The method of measurement and reporting of noise levels must comply with the Noise Measurement Manual.

Noise Management Plan

- (1D3-1) In the event noise emitted from the approved activity exceeds noise limits prescribed by Condition (1D1-5) the Registered Operator must develop a noise management plan to assist resolving the complaint. The noise management plan must address at least, but not be limited to, the following matters:
- (i) identification of component noise sources and activities at the place(s) which impact on nuisance sensitive and commercial places;
 - (ii) the measured level of these noise sources and activities at nuisance sensitive and commercial places;
 - (iii) the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive and commercial places;
 - (iv) the predicted reduction in noise at nuisance sensitive places by implementing these measures;
 - (v) time frame for completion of the work proposed;
 - (vi) any necessary community liaison and consultation; and
 - (vii) any training requirements for staff in noise reduction practices.

- (1D3-2) A draft Noise Management Plan must be submitted to the Administering Authority for review and comment within one month of a noise emission that exceeds limits prescribed by Condition (D1-5).
- (1D3-3) After the Administering Authority has commented on the draft Noise Management Plan, the Registered Operator must have due regard to any comments made by the administering authority, and must implement the plan as soon as practicable.

END OF CONDITIONS FOR SCHEDULE 1D

Schedule 1E – Waste

Waste Acceptance

- (1E1-1) Within 24 months from the commencement date of this Development Approval, disposal of putrescible waste to the existing landfill must cease.
- (1E1-2) Exposed waste (excluding recyclable waste that is temporarily stored in a defined area) must be limited to the working face of any landfill unit and the area of exposure must be minimised to the greatest extent practicable. For the purpose of this condition, no waste must be deposited beyond the boundaries of the landfill unit(s).
- (1E1-3) Only the following general and limited regulated waste materials are permitted to be accepted:
- domestic waste;
 - commercial waste;
 - domestic clean-up waste;
 - construction or demolition waste;
 - industrial waste;
 - garden wastes;
 - putrescible wastes;
 - solid inert wastes;
 - limited regulated waste may be disposed of in the general waste stream provided the quantity of limited regulated waste received at the facility in a year is not more than 10% of the total waste received at the facility in any calendar year.
- NOTES:**
- (a) wet cell batteries, waste oil and grease trap waste may be accepted and temporarily stored at the licensed place for recycling purposes.
- (b) drums containing any residual regulated waste are a regulated waste unless effectively cleaned in accordance with Operational Policy 'Determinations for management of regulated wastes'.
- (1E1-4) Any limited regulated waste disposed of at the landfill must only be in a solid form*
- (* excluding water treatment plant residues and screenings from Gympie Regional Council Sewage Treatment Plants.)
- (1E1-5) The quantity of limited regulated waste received at the facility in a year must not be more than 10% of the total waste quantity received at the facility in any calendar year.
- (1E1-6) Notwithstanding any condition of this approval, you shall not cause, permit or allow deposition of the following waste materials in the landfill unit:
- liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity;
 - hot ash;
 - material that is smouldering or aflame;
 - material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises);
 - radioactive wastes;
 - explosives;
 - ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction;
 - tyres*
 - contaminated soil;
 - treatment tank sludge or residues, other than sewage treatment plant screenings and grit;
 - biosolids;
 - grease trap wastes; and

- green waste – other than green waste that is of a size that cannot otherwise be shredded or composted, or which enters the landfill through the domestic waste collection service.

(* Council must take all reasonable and practical measures to prevent tyres being disposed into the landfill)

- (1E1-7) Limited regulated wastes accepted must be interred in compliance with the special requirements specified in Schedule 1E – Table 1.

Schedule 1E – Table 1
(Special Requirements for Waste Types)

Waste Type	Special Requirements
Infectious substances or quarantine waste	Rendered non-infectious before acceptance at landfill
Fish processing waste	No liquid waste
Food processing waste	No liquid waste
Poultry processing waste	No liquid waste

- (1E1-8) All exposed waste must be covered each day following the last deposition of wastes in the landfill and comply with the requirements for day cover specified in Schedule 1C Table 5.
- (1E1-9) The following conditions must be complied with in the disposal of all forms of asbestos waste. The asbestos waste must be disposed of:
- to a designated asbestos disposal pit(s) where no excavation takes place following the disposal of asbestos waste within that pit, and immediately covered with 200 mm of consolidated earth or equivalent cover material over the entire area of the pit; or
 - placed at the bottom of the current working face of the landfill unit (the disposal place) and immediately covered with at least 1 metre of waste;
 - the asbestos waste, the asbestos waste disposal pit or disposal place as the case may be, and all areas within 2 metres of the disposal pit/disposal place and asbestos waste (the 2 metre buffer area) must remain undisturbed following the waste disposal operation (including not placing the waste in a position where any gas extraction wells are likely to be necessary or drilling any gas extraction wells through the waste deposit);
 - plant and equipment must be available for any necessary preparation of the disposal pit/disposal place upon receipt of the asbestos waste and immediate covering of the asbestos waste and compacting of the area upon placement in the pit; and
 - the asbestos waste must be contained within the final landfill unit at a minimum distance of two (2) metres from the surface and flanks of the final landfill unit, excluding any final cover system required as a condition of this development approval (where final landfill unit means that deposition to the landfill unit has ceased).
- (1E1-10) The Registered Operator must take all reasonable and practicable measures to prevent the commingling of waste authorised to be interred within the landfill with waste not authorised to be interred at the landfill.

Special Burial

- (1E2-1) You must handle and dispose of as a special burial all waste which is likely to cause environmental harm when placed in an exposed position.

Waste Records

- (1E3-1) Keep and maintain records of source, volumes and composition of all waste types accepted at the premises and report these values to the administering authority at the end of each financial year.

Litter Management

- (1E4-1) Where litter is blown or washed from the premises to which this development approval relates, the Registered Operator must take all reasonable and practicable actions to:
- retrieve the litter and ensure that it is disposed of in an appropriate manner; and
 - implement measures to prevent a recurrence of litter being blown or washed from the premises.

Burning

(1E5-1) The Registered Operator must not:

- (i) burn waste at or on the place to which this development approval relates*; nor
- (ii) allow waste to burn or be burnt at or on the place to which this development approval relates nor
- (iii) remove waste and burn such waste elsewhere.

(* This condition does not apply to material that is required to be burnt under quarantine regulations and, burning of such materials is to be carried out in a way that does not cause environmental harm. Additionally, this condition does not refer to activities carried out under the provisions of the Fire Services Act 1990.)

Public Health Issues

(1E6-1) The Registered Operator must take all reasonable and practicable measures necessary to ensure that the carrying out of the environmentally relevant activity does not cause any adverse effect on public health or any nuisance in relation to propagation of diseases, fly breeding, mosquito breeding, and harbourage and/or breeding of rats and other pest organisms and/or vectors

Quantities of Waste Disposed

(1E7-1) The Registered Operator must record details of the quantity of wastes interred including the following:

- quantity of infectious substances or quarantine waste that has been rendered non-infectious;
- quantity of fish processing waste;
- quantity of food processing waste;
- quantity of poultry processing waste;
- quantity of other regulated waste;
- total quantity of waste.

Notes: (1) where a load of general waste contains a number of regulated wastes an estimation of the percentage composition of each regulated waste must be made and recorded;
 (2) with respect to this condition, records of all quantities of waste must be expressed as a weight, e.g., kilograms or tonnes.

(1E7-2) The Registered Operator must not permit putrescible waste to be stored on site overnight or during times when the landfill is not open for the receipt of waste, without that waste being stored in a fully enclosed container or other device that prevents odour nuisance and which prevents contact with rainfall and stormwater runoff.

Note: Waste interred into the landfill in compliance with the conditions of this development approval is considered to have been disposed of and is not being stored.

(1E7-3) The final height of the landfill must not exceed RL 83.012m.

END OF CONDITIONS FOR SCHEDULE 1E

Schedule 1F - Land**Preventing Contaminant Release to Land**

(1F1-1) Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.

(1F1-2) All petroleum product storages must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.

(1F1-3) The base and walls of all bunded areas must be maintained free from gaps and cracks.

END OF CONDITIONS FOR SCHEDULE 1F

Schedule 1G - Community

Complaint Response

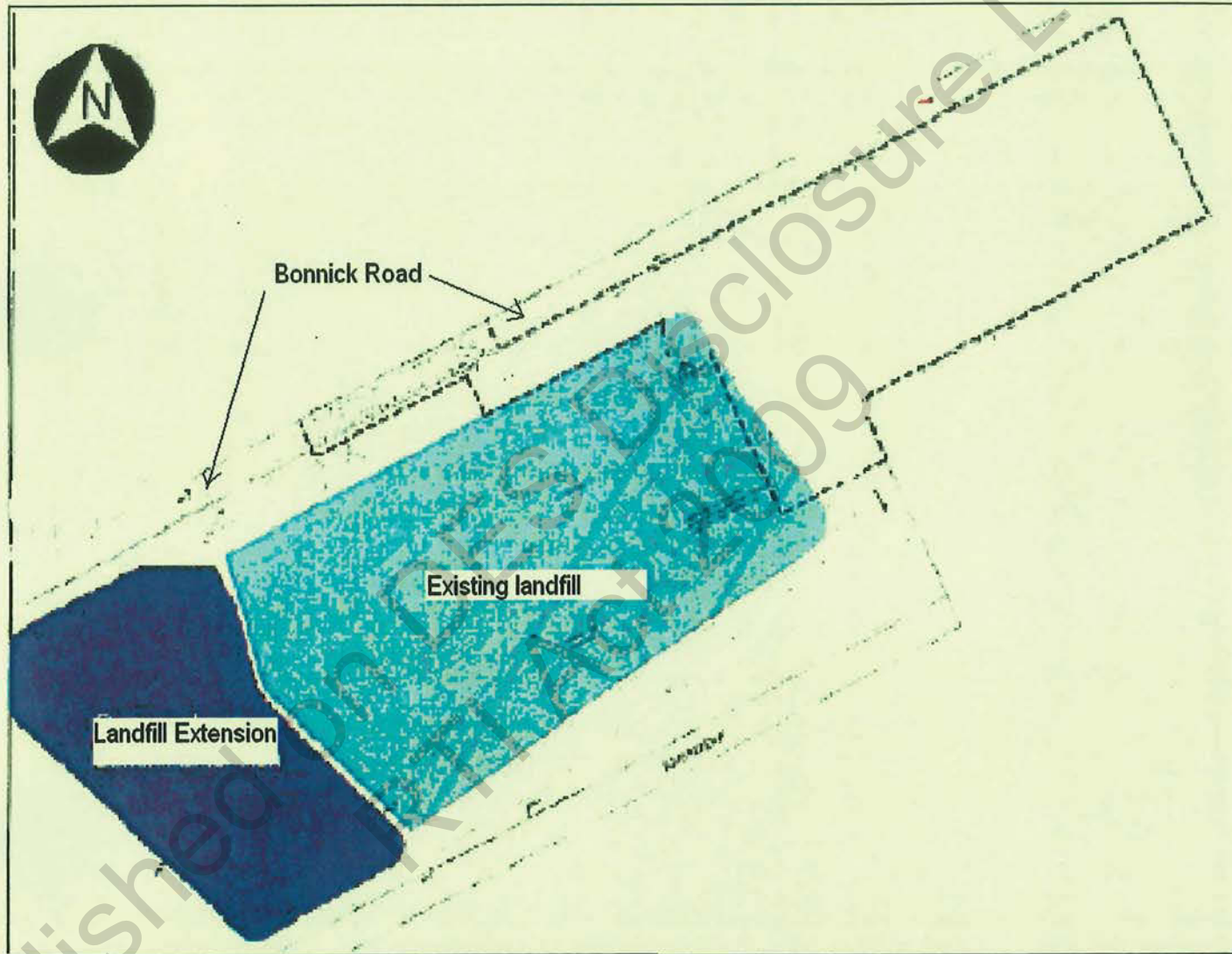
(1G1-1) The Registered Operator must record the following details for all complaints received and provide this information to the administering authority on request:

- a) Time, date and contact details of the complainant;
- b) Reasons for the complaint;
- c) Any investigations undertaken;
- d) Conclusions formed; and
- e) Actions taken to resolve the complaint.

END OF CONDITIONS FOR SCHEDULE 1G

Schedule 1H – Maps / Plans

Figure 1 - Existing Landfill and Landfill Extension



Conditions

ERA 62 – Transfer Station Schedule 2A – General

Prevent and / or minimise likelihood of environmental harm

(2A1-1) In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or minimise the likelihood of environmental harm being caused.

Maintenance of Measures, Plant and Equipment

(2A2-1) 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.

Site Based Management Plan

(2A3-1) From commencement of the approved activity, 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.
- (h) Conducting environmental impact assessments.
- (i) Staff training.
- (j) Record keeping.
- (k) Periodic review of environmental performance and continual improvement

(2A3-2) The site based management plan must not be implemented or amended in a way that contravenes a condition of this approval.

Records

(2A4-1) Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.

Notification

(2A5-1) Telephone the Department of Environment and Heritage Protection Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval

(2A5-2) Notwithstanding condition (2A5-1), within 10 days of becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval, provide the following written advice to the administering authority:

- the full analysis results; and
- details of investigation or corrective actions taken; and
- results of any subsequent analysis carried out to verify the success of any corrective actions taken or proposed.
- Advice when any outstanding or subsequent analysis results will be provided
- Advice when any subsequent analysis will be carried out to verify the success of any corrective actions taken.
- the name of the operator, including their approval / registration number;

- the name and telephone number of a designated contact person;
- quantity and substance released;
- any vehicle involved and its registration details;
- person/s involved;
- the location and time of the event / release or monitoring result;
- the suspected cause of the event or release;
- a description of the effects of the release on the receiving environment.

Monitoring

- (2A6-1) A suitably qualified and experienced person must conduct any monitoring required by this approval.

Equipment Calibration

- (2A7-1) All instruments, equipment and measure devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.

Spill Kit

- (2A8-1) A dedicated spill kit, personal protective equipment and operator instructions/emergency procedure guides for the management of wastes associated with the Environmentally Relevant Activity must be kept at the site.

END OF CONDITIONS FOR SCHEDULE 2A

Schedule 2B - Air**Nuisance**

- (2B1-1) The release of dust and / or particulate matter, noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.
- (2B1-2) The Registered Operator must not permit putrescible waste to be stored on site overnight or during times when the landfill is not open for the receipt of waste, without that waste being stored in a fully enclosed container or other device that prevents odour nuisance and which prevents contact with rainfall and stormwater runoff

Dust Nuisance

- (2B2-1) The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.
- (2B2-2) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, you must undertake dust and particulate monitoring to investigate environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of the monitoring. Monitoring must include:
- (v) for a complaint alleging dust nuisance, dust deposition; and
 - (vi) 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; and
 - (vii) be carried out in at a place(s) relevant to the potentially affected dust sensitive places and upwind control sites.

Dust Control – Trafficable areas

- (2B3-1) Trafficable areas associated with the approved activity must be developed and maintained to prevent the release of wind blown or traffic generated dust.

END OF CONDITIONS FOR SCHEDULE 2B

Schedule 2C - Land**Prevent contaminant release to land**

- (2C1-1) Contaminants released to land at the site must only be released to land in accordance with conditions relating to ERA 60 – Landfill Operations, for the site as per Schedule 1A to 1H.
- (2C1-2) Spillage of all chemicals and fuels must be captured and contained within a dedicated containment system for the Transfer Station.

(Note: All petroleum product storages must be designed, constructed and maintained in accordance with AS1940 – Storage and Handling of flammable and combustible liquids.)

- (2C1-3) All bunding must be maintained to ensure it remains impermeable to the materials held within the bund
- (2C1-4) All bunded areas must be roofed, with the exception of green waste storage areas.
- (2C1-5) All bunded areas must be maintained free from gaps and cracks.
- (2C1-6) Chemicals or fuels captured in any dedicated Transfer Station containment system must not be released to the landfill at the subject site in liquid form.

END OF CONDITIONS FOR SCHEDULE 2C

Schedule 2D – Noise

- (2D1-1) Noise from the approved activity must not cause a nuisance at any nuisance sensitive or commercial premises.
- (2D1-2) Mulching of green waste is not permitted at the site.
- (2D1-3) Crushing, milling or grinding of concrete waste is not permitted at the site.
- (2D1-4) **Scrap metal collection** must only occur inside the Transfer Station structure.
- (2D1-5) Vehicle movements within the approved premises must be actively and passively managed to regulate speeds to 40km/hr or less along internal roads. Measures used to achieve compliance with this condition must not include speed bumps, and should otherwise provide for steady vehicle movements along access and exit roads.
- (2D1-6) The roof and walls of the Transfer Station (excluding lower concrete sections to 2.5m) must be constructed of, and / or lined with material that achieves a **Noise Reduction Coefficient** of at least 0.92, and an Rw rating of 39 (for the roof) and an Rw rating of 31 (for walls excluding lower concrete sections to 2.5m).
- (2D1-7) The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented, with the exception for necessary ventilation requirements, which must be acoustically designed (eg using acoustic louvres) to minimise noise emanating from the Transfer Station structure.
- (2D1-8) Acoustic barriers must;
 - be installed around any waste truck loading area, as per Schedule 2H Figure 1;
 - be installed to a height of at least 5.0m extending from the designed roller doors at the North Western and North Eastern corner of the Transfer Station, as per Schedule 2H Figure 1;
 - be installed to a height of 2.4m at the Bonnick Road Boundary, as per Schedule 2H Figure 2;
 - be continuous with no air gaps and be constructed of material with a minimum mass density of at least 12kg/m² or achieve an Rw of at least 20
- (2D1-9) Prior to the commissioning of the Transfer Station, the facility must be physically assessed by a person with appropriate noise mitigation qualifications and experience, verifying by way of a written report, that measures required to comply with conditions (2D1-6) through (2D1-8) have been installed.
- (2D1-10) A copy of the written report required by Condition (2D1-9) of this Development Approval must be provided to the Administering Authority prior to the commissioning of the Transfer Station.
- (2D1-11) In the event of a complaint about noise emissions from the Transfer Station that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive or commercial place.
- (2D1-12) In the event noise monitoring is required by the Administering Authority, noise from the approved activity must not exceed the levels specified in Schedule D - Table 1 at any nuisance sensitive place or commercial place.

Schedule D – Table 1 (Noise Levels)

Time Period	Proponent Noise level at a 'Nuisance Sensitive Place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	44 dB(A) or background noise level plus 3 dB(A), whichever is the higher
Time Period	Noise level at a 'Commercial place' measured as the $L_{A,eq\ adj\ 1hr}$
7am - 5pm	55 dB(A) or background noise level plus 5 dB(A), whichever is the greater

- (2D1-13) No audible noise from the Transfer Station is authorised (including noise from the use of vehicles accessing the site, and plant and equipment within the site) between the hours 5:00pm to 7:00am Monday to Friday; and 4:00pm to 8:00am Saturday; and 4:00pm and 9:00am Sunday.

Noise Monitoring

- (2D2-1) In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance within 14 days, and the results notified to the administering authority once received from any external consultant. Monitoring must include:

- background noise level;
- $L_{Aeq, adjT}$, $L_{Amax, adjT}$, $L_{A10, adjT}$
- 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.

- (2D2-2) The method of measurement and reporting of noise levels must comply with the Noise Measurement Manual.

Noise Management Plan

- (2D3-1) In the event noise emissions from the approved activity exceeds noise limits prescribed by Condition (2D1-12) you must, develop a noise management plan to assist resolve the complaint. The noise management plan must address at least, but not be limited to, the following matters:

- (viii) identification of component noise sources and activities at the place(s) which impact on nuisance sensitive or commercial places;
- (ix) the measured level of these noise sources and activities at nuisance sensitive or commercial places;
- (x) the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive or commercial places;
- (xi) the predicted reduction in noise at nuisance sensitive or commercial places by implementing these measures;
- (xii) time frame for completion of the work proposed;
- (xiii) any necessary community liaison and consultation; and
- (xiv) any training requirements for staff in noise reduction practices.

- (2D3-2) A draft Noise Management Plan must be submitted to the Administering Authority for review and comment within one month of a noise emission that exceeds limits prescribed by Condition (2D1-12).

- (2D3-3) After the Administering Authority has commented on the draft Noise Management Plan, the Registered Operator must have due regard to any comments made by the administering authority, and must implement the plan as soon as practical.

END OF CONDITIONS FOR SCHEDULE 2D

Schedule 2E - Social

Complaint Response

- (2E1-1) The Registered Operator must record the following details for all complaints received and provide this information to the administering authority on request:

- f) Time, date and contact details of the complainant;
- g) Reasons for the complaint;
- h) Any investigations undertaken;
- i) Conclusions formed; and
- j) Actions taken to resolve the complaint.

END OF CONDITIONS FOR SCHEDULE 2E

Schedule 2F - Waste

Waste composition

- (2F1-1) Only the following waste materials are permitted to be accepted through the Transfer Station:
- a) Construction and demolition waste (C&D);
 - b) Commercial and industrial waste (C&I)
 - c) Municipal Solid Waste (MSW); and
 - d) Limited Regulated Waste.
- (2F1-2) Regulated waste received at the Transfer Station must not be disposed to the landfill at the subject site.

Waste Records

- (2F2-1) A record of all regulated waste must be kept detailing the following information:
- a) date of pickup of waste
 - b) description of waste
 - c) Quantity of waste;
 - d) Origin of waste; and
 - e) Destination of the waste.

END OF CONDITIONS FOR SCHEDULE 2F

Schedule 2G – Water

Release to Waters

- (2G1-1) Contaminants must not be released from the Transfer Station to any waters or the bed or banks of any waters.
- (2G1-2) There must be no release of stormwater runoff that has been in contact with any contaminants at the Transfer Station to any waters, roadside gutter or stormwater drain

Erosion Protection Measures and Sediment Controls

- (2G2-1) Erosion protection measures and sediment control measures must be designed, installed and maintained wherever necessary to minimise erosion or disturbed areas and prevent the release of sediment to waters.

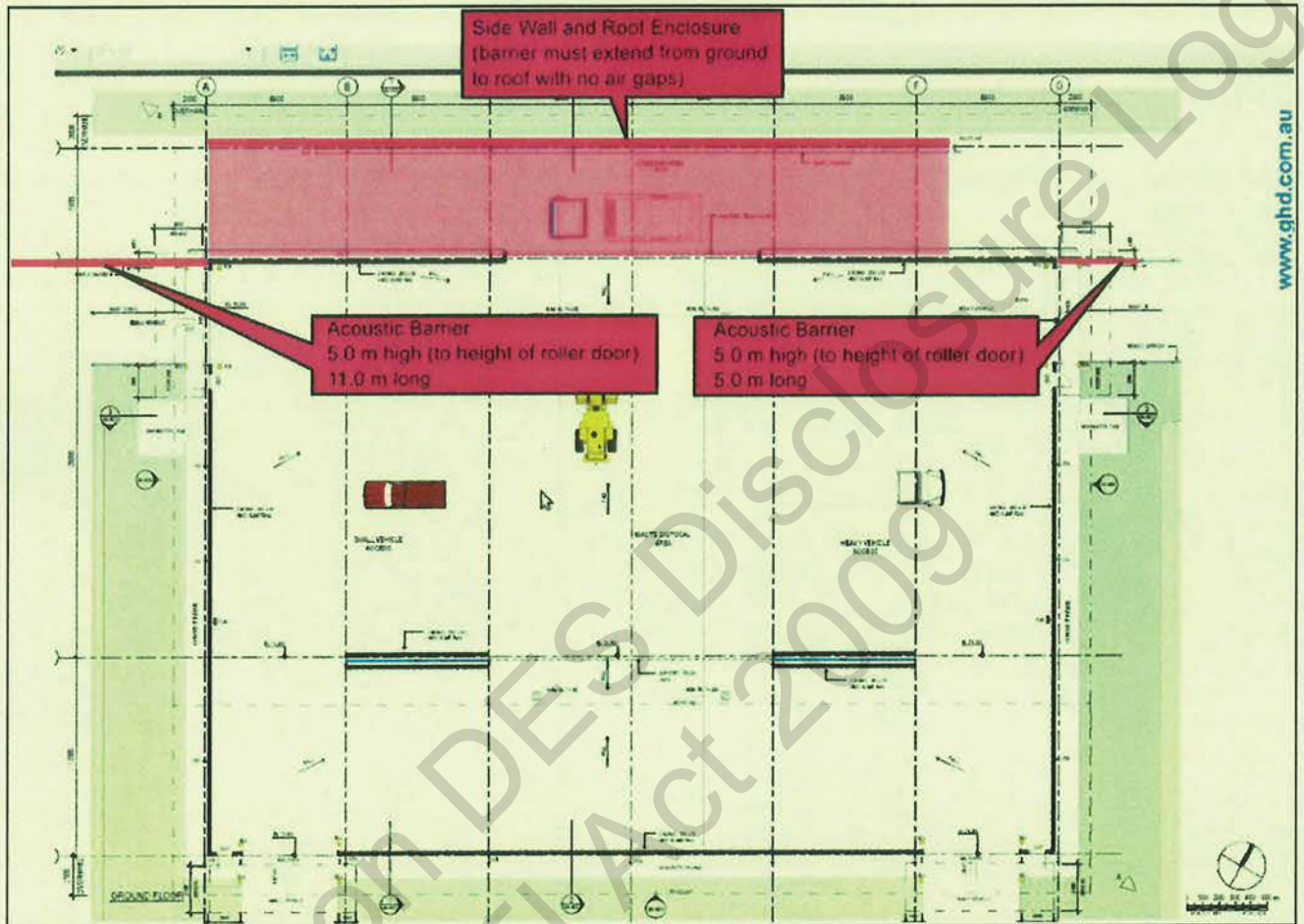
Cleaning and spillages

- (2G3-1) The maintenance and cleaning of any vehicles, other equipment or plant must be carried out in areas where contaminants cannot be released into any waters, roadside gutter or stormwater drain.

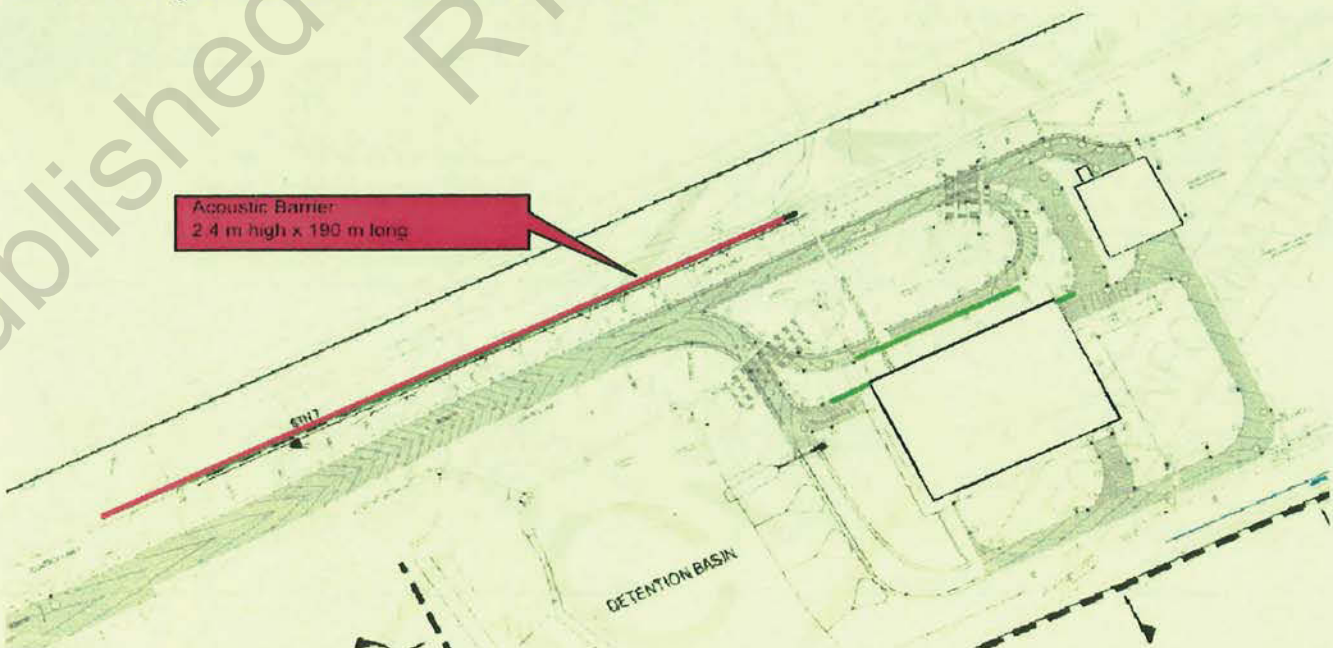
END OF CONDITIONS FOR SCHEDULE 2G

Schedule 2H – Maps / Figures

Figure 1 – Acoustic Barriers – Transfer Station structure



Schedule H Figure 2 – Acoustic Barrier – Bonnick Road



END OF CONDITIONS

Schedule H - Definitions

Words and phrases used throughout this licence or development approval are defined below:

Where a definition for a term used in this approval is sought and the term is not defined within this approval the definitions provided in the *Environmental Protection Act 1994*, its regulations, and Environmental Protection Policies shall be used.

Word Definitions

- (H1) **"administering authority"** means the Environmental Protection Agency or its successor.
- (H2) **"you"** means the Registered Operator or owner / occupier of the land which is the subject of this Development Approval.
- (H3) **"site"** means the place to which this environmental authority relates or the premises to which this development approval relates.
- (H4) **"authorised place"** means the place authorised under this environmental authority/development approval for the carrying out of the specified environmentally relevant activities.
- (H5) **"this authority"** means this environmental authority/development approval.
- (H6) **"authority"** means level 1 licence (without development approval), or level 1 approval (without development approval), or level 2 approval (without development approval) under the *Environmental Protection Act 1994*.
- (H7) **"approval"** means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.
- (H8) **"annual return"** means the annual return for the licence (with development approval) issued under the *Environmental Protection Act 1994* for this development.
- (H9) **"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.
- (H10) **"Disturbed Areas"** means land disturbed but not yet fully rehabilitated at the site, and includes areas used for land filling (*excluding* areas of exposed waste or any active waste disposal face), access roads (sealed and unsealed) and storage or stockpile areas.
- (H11) **"noxious"** means harmful or injurious to health or physical well being.
- (H12) **"offensive"** means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.
- (H13) **"nuisance sensitive place"** includes –
- dwellings such as houses, units, motels, resort accommodation, nursing homes, caravans and mobile homes (provided they are principally used as residences), and including the curtilage of any such places;
 - a surgery or other medical institution;
 - library, childcare centres, kindergartens, schools or other educational institutions;
 - a park or garden that is open to the public;
 - a protected area, or an area identified under a conservation plan as a critical habitat or area of major interest, under the Nature Conservation Act 1992;
 - a Marine Park under the Marine Parks Act 1992
- (H14) **"Noise Reduction Coefficient"** (NRC) means means the *arithmetic average of the sound absorption coefficients* at frequencies 250, 500, 1000 and 2000 Hz.
- (H15) **" $L_{aeq,adj,T}$ "** means an A-weighted sound pressure level of a continuous steady sound, adjusted for tonal character, that within a 1 hour period has the same mean square sound pressure of a sound that varies with time.
- (H16) **" $L_{A 10, adj, 10 mins}$ "** 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.

- (H17) "**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.
- (H18) "**L_A, max adj, 10 mins**" means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.
- (H19) "**commercial place**" means a place used as an office or for business for commercial purposes.
- (H20) "**Scrap Metal Collection**" means collection of scrap metal, using an excavator or other heavy machinery to load storage bins or trucks, for removal from the site.
- (H21) "**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.
- (H22) "**Independent Person**" means a person or entity not directly employed by the Registered Operator or owner / occupier of the land which is the subject of this development approval. An Independent person may be a person providing consulting advice to the Registered Operator for fee or reward.
- (H23) "**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 any under groundwater, or any part thereof.
- (H24) "**land**" in the "land schedule" of this document means land excluding waters and the atmosphere.
- (H25) "**mg/L**" means milligrams per litre.
- (H26) "**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 licensed place which contains soluble, suspended or miscible contaminants likely to have been derived from the said material.
- (H27) "**geotechnical stability of the landfill unit**" means a situation where instability related to the excessive settlement and subsidence caused by decomposition and consolidation of the wastes deposited in the landfill unit, and sliding instability of the unit slope has ceased.
- (H28) "**background noise level**" means either:
- LA90, T being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, or
- Labg, T being the A-weighted sound pressure level obtained using Fast response and arithmetically averaging the lowest levels of the ambient sound pressure level during a representative time period of not less than 15 minutes.
- (H29) "**landfill facility**" means all contiguous land and structures, other appurtenances, and improvements on the land used or associated with the disposal of waste.
- (H30) "**lower explosive limit**" means the lowest percent by volume of a mixture of explosive gases in air that will propagate a flame at 25°C and atmospheric pressure.
- (H31) "**special burial of waste**" means a disposal method where earth moving equipment pushes the wastes to the bottom of the working face or into an excavated hole, and immediately covers it with earth or other waste material.
- (H32) "**uppermost aquifer**" means the geologic formation nearest to the natural ground surface that is an aquifer. The term includes any aquifers that are likely to be hydraulically interconnected with this aquifer within the landfill facility property boundary.
- (H33) "**Special Burial of waste**" means a disposal method where earth moving equipment pushes the wastes to the bottom of the working face or into an excavated hold, and immediately covers that waste

with earth or other waste material.

- (H34) **“statistically significant”** means when a difference between groups of data is sufficient for a statistical test to reject the *null hypothesis*. For example, a requirement for a statistical test is that you have a minimum of two hypotheses, the null hypothesis and one or more alternative hypotheses. If you have data from two groups of bores (say A = background values and B = values at locations hydraulically down gradient of the landfill unit), and you wish to test whether A is different from B, *the null hypothesis* would be that A and B are from the same population (no significant difference). After performing the statistical test, you will either accept or reject the null hypothesis.
- (H35) **“liquid or semi-liquid waste”** means a waste which failed the paint filter liquid test described in the document SW-846 'Test Methods for Evaluation of Solid Wastes Physical/Chemical Methods' published by the United States Environmental Protection Agency; Revision 5; April 1998 or updated version thereof.
- (H36) **“ignitable, corrosive, reactive or toxic materials”** are materials as defined in the Queensland Government Environmental Protection Agency 'ERA 75: Guideline on landfill siting, design, operation and rehabilitation'; 2002.
- (H37) **“RL”** means height in metres above mean sea level
- (H38) **“recycling landfill diversion rate”** means a calculated figure using the following formula:
- $$\frac{\text{tonnes of recycle}}{\text{total tonnes of potential recycle}} \times 100$$
- (H39) **“Monitoring and Sampling Manual”** means the following documents or more recent additions or supplements to that document as such become available:
- Monitoring and Sampling Manual 2009 Environmental Protection (Water) Policy 2009**
Version 2 September 2010
- (H40) **“Noise Measurement Manual”** means the following document or more recent additions or supplements to that document as such become available:
- Environmental Protection Agency. (2000). *Noise Measurement Manual Third Edition*, Environmental Protection Agency, Brisbane, Australia.
- (H41) **“Air Quality Sampling Manual”** means the following document or more recent additions or supplements to that document as such become available:
- Department of Environment. (1997). *Air Quality Sampling Manual*, Department of Environment, Brisbane Australia.

END OF DEFINITIONS FOR SCHEDULE – H

END OF CONDITIONS

Gympie Times, Gympie QLD
07 Jul 2012, by Arthur GorrieGeneral News, page 5 - 395.95 cm²
Regional - circulation 4,748 (-TWTFs-)

ID 153144675

PAGE 1 of 2

Bonnick Rd landfill has almost seen its day as councillors ...

Plan for a less wasteful future

**ARTHUR
GORRIE**
REPORTER

arthur.gorrie@gympietimes.com

A NEW state-of-the-art garbage transfer station will help Gympie residents cope with rising costs and a changing community, Gympie Regional Council was told this week.

Waste management councillor Mick Curran yesterday said the transfer station would be permanently useful, even when council landfill facilities were shifted to the Toolara mega-dump site.

Residents could drop their garbage at the Bonnick Rd transfer station, from where it would be taken to an extended landfill on the same site.

But that would only apply until the planned major landfill was in operation, he said.

"The council has budgeted to spend \$3 million on extending the (Bonnick Rd) landfill area," Cr Curran said.

The change would take its boundary closer to Corella Rd.

"It also plans to spend \$1.7 million on the transfer station this financial year," he said.

"It will be a one-stop shop for recyclables, green waste and traditional landfill rubbish.

"Obviously the council has budgeted some serious money to get these major projects done and it certainly shows strategic planning to deal with future waste disposal issues in our region."

During debate at this week's meeting, Deputy Mayor Tony Perrett said the transfer station would help with transport and recycling.

Bonnick Rd was going to "run out of landfill space in the next few years", he said.

Mayor Ron Dyne said it was worth stressing that the council did not intend to have noisy tree-shredding or concrete-crushing carried out on the site.

Cr Larry Friske said a proper transfer station would accommodate the needs of nearby industry and residents.

Industrial neighbours would have a better road.

"Bonnick Rd has never been a pretty sight," he said.

"It's got dust, dirt and everything you expect from a dump.

"The transfer station will be sealed, with no dirt."

He claimed this would greatly improve the amenity of the area.

Cr Curran told the meeting it was integral to council plans that it should start development of a united region-wide waste management system.

Cr Perrett said transfer stations also were planned for the Cooloola Coast.

"We will need to start planning for waste removal in areas where landfills are approaching capacity," he said.



**Bonnick Rd has
never been a pretty
sight.**

— Cr Larry Friske



THINKING OF THE FUTURE: Mick Curran at the Bonnick Rd waste facility.

PHOTO: CRAIG WARHURST

Karle Matt

From: Brain Tim (DERM)
Sent: Tuesday, 29 November 2011 4:17 PM
To: Karle Matt
Subject: Bonnick Road - Noise and the landfill

Hi Matt

Michael Grant rang about points 1(a) (d) and (e) in our letter. He was asking for clarification around the noise issues relating to the landfill as he would like to finalise the report he has with the consultants.

Can we please discuss as soon as possible.

Thanks

Tim Brain

Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management
Telephone: (07) 4121 1813
Facsimile: (07) 4121 1650
Email: tim.brain@derm.qld.gov.au

www.derm.qld.gov.au

Karle Matt

From: Brain Tim (DERM)
Sent: Tuesday, 29 November 2011 4:17 PM
To: Karle Matt
Subject: Bonnick Road - Noise and the landfill

Hi Matt

Michael Grant rang about points 1(a) (d) and (e) in our letter. He was asking for clarification around the noise issues relating to the landfill as he would like to finalise the report he has with the consultants.

Can we please discuss as soon as possible.

Thanks

Tim Brain

Manager (Wide Bay Burnett)
Environmental Services - North
South East Region
Department of Environment and Resource Management
Telephone: (07) 4121 1813
Facsimile: (07) 4121 1650
Email: tim.brain@derm.qld.gov.au

www.derm.qld.gov.au

R

Karle Matt

From: Karle Matt
Sent: Monday, 30 January 2012 8:33 AM
To: CTPI 49-Sch4-
Subject: FW: Draft conditions - Bonnick Road landfill

Matt Karle

Principal Environmental Officer (Wide Bay Burnett)

Environmental Services North

South East Region

Department of Environment and Resource Management

Ph: (07) 4121 1618

Email: matt.karle@derm.qld.gov.au

From: Tanya Allen [mailto:Tanya.Allen@gympie.qld.gov.au]

Sent: Friday, 27 January 2012 5:04 PM

To: Karle Matt

Cc: Ian Wolff; Michael Grant

Subject: Draft conditions - Bonnick Road landfill

Dear Matt

I have reviewed the latest draft conditions for the landfill extension and transfer station development application at Bonnick Road, Gympie. Council requests further negotiation if these draft conditions, as follows.

1st page

As discussed with Michael Grant today, the ERA threshold on the page 1 of the draft conditions is incorrect. In the application, Council applied for –

- ERA 60 – Waste Disposal 2(e) – Operating a facility for disposing of, in a year, more than 20,000 t to 50,000 t; and
- ERA 62 – Waste Transfer Station Operation.

Schedule 1C – Table 5 (Permeabilities and Special Requirements for Landfill

Further to the meeting on Thursday, 19 January 2012, CTPI 49-Sch4-Name has advised that the minimum permeability of the liner sub base should be changed to 1×10^{-7} (same

as the base and walls of the sediment pond). If you require clarification about this, please phone CTPI 49-Sch4-Nam on CTPI 49-Sch4-Mobile

(1D1-1)

Add "or commercial place" to the end of this condition.

(1D1-4)

Add "or commercial place" to the end of this condition.

Schedule D – Table 1 (Noise Levels)

Changes as per advice of noise consultant – CTPI 49-Sch4-N (Air Noise Environment) – emailed 27/01/2012.

(2D1-4)

The majority of metal collection will occur in the transfer station building; however the resource recovery building will be used for sorting loads by recycling contractors to remove items from vehicles. Council intends that reusable metal items will be recovered from loads in this area. This recovery is by hand (not machinery) and therefore is not anticipated to be a source of noise. This condition should reflect the use of this building for recovery of reusable metal items (and not general scrap metal).

(2D1-5)

Council requests that this condition be deleted. As discussed with Michael Grant during your telephone conversation on 27/01/2012, the proposal to use lined bins for collection of general scrap metal was included in the original noise report as, at that point in time, the scrap metal collection area was proposed to be an external operation. During subsequent negotiation and review of the proposal, general scrap metal waste will now be collected in the transfer station building, as per the addendum report. As scrap metal waste collection is to occur inside the transfer station building this negates the need to have lined bins.

(2D1-6)

Change 20km/hr to 40 km/hr, as per conversation with Michael Grant on 27/01/2012.

(2D1-9)

Additional wording to first dot point, as per CTPI 49-Sch4-Nam previous recommendation.
** be installed around any waste truck loading area, as per Schedule 2H Figure 1.*

Schedule D – Table 1 (Noise Levels)

Changes as per advice of noise consultant – CTPI 49-Sch4-N (Air Noise Environment) – emailed 27/01/2012.

(2F1-1)

Remove "clean" (mentioned twice)

Should you require further clarification on any item, please phone Michael Grant on (07) 5481 0611 or CTPI 49-Sch4-Na (for noise matters).

Kind Regards

Tanya Allen

Environmental Health Officer | Health & Environmental Services | Community Services

Telephone: 07 5481 0611 | Facsimile: 07 5481 0801

Gympie Regional Council



24 Mellor Street, Gympie QLD 4570
 PO Box 155 Gympie QLD 4570
 e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au



Please consider the environment before printing this email
 1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
 3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Tanya Allen [Tanya.Allen@gympie.qld.gov.au]
Sent: Friday, 27 January 2012 5:04 PM
To: Karle Matt
Cc: Ian Wolff; Michael Grant
Subject: Draft conditions - Bonnick Road landfill

Dear Matt

I have reviewed the latest draft conditions for the landfill extension and transfer station development application at Bonnick Road, Gympie. Council requests further negotiation if these draft conditions, as follows.

1st page

As discussed with Michael Grant today, the ERA threshold on the page 1 of the draft conditions is incorrect. In the application, Council applied for –

- ERA 60 – Waste Disposal 2(e) – Operating a facility for disposing of, in a year, more than 20,000 t to 50,000 t; and
- ERA 62 – Waste Transfer Station Operation.

Schedule 1C – Table 5 (Permeabilities and Special Requirements for Landfill)

Further to the meeting on Thursday, 19 January 2012, CTPI 49-Sch4-Na has advised that the minimum permeability of the liner sub base should be changed to 1×10^{-7} (same as the base and walls of the sediment pond). If you require clarification about this, please phone CTPI 49-Sch4-N on CTPI 49-Sch4-Mo

(1D1-1)

Add “or commercial place” to the end of this condition.

(1D1-4)

Add “or commercial place” to the end of this condition.

Schedule D – Table 1 (Noise Levels)

Changes as per advice of noise consultant – CTPI 49-Sch4 (Air Noise Environment) – emailed 27/01/2012.

(2D1-4)

The majority of metal collection will occur in the transfer station building; however the resource recovery building will be used for sorting loads by recycling contractors to remove items from vehicles. Council intends that reusable metal items will be recovered from loads in this area. This recovery is by hand (not machinery) and therefore is not anticipated to be a source of noise. This condition should reflect the use of this building for recovery of reusable metal items (and not general scrap metal).

(2D1-5)

Council requests that this condition be deleted. As discussed with Michael Grant during your telephone conversation on 27/01/2012, the proposal to use lined bins for collection of general scrap metal was included in the original noise report as, at that point in time, the scrap metal collection area was proposed to be an external operation. During subsequent negotiation and review of the proposal, general scrap metal waste will now be collected in the transfer station building, as per the addendum report. As scrap metal waste collection is to occur inside the transfer station building this negates the need to have lined bins.

(2D1-6)

Change 20km/hr to 40 km/hr, as per conversation with Michael Grant on 27/01/2012.

(2D1-9)

Additional wording to first dot point, as per CTPI 49-Sch4-N previous recommendation.

* be installed around any waste truck loading area, as per Schedule 2H Figure 1.

Schedule D – Table 1 (Noise Levels)

Changes as per advice of noise consultant – CTPI 49-Sch4 (Air Noise Environment) – emailed 27/01/2012.

(2F1-1)

Remove "clean" (mentioned twice)

Should you require further clarification on any item, please phone Michael Grant on (07) 5481 0611 or CTPI 49 for noise matters).

Kind Regards

Tanya Allen**Environmental Health Officer | Health & Environmental Services | Community Services**

Telephone: 07 5481 0611 | Facsimile: 07 5481 0801



Gympie Regional Council
24 Mellor Street, Gympie QLD 4570
PO Box 155 Gympie QLD 4570

e-mail: tanya.allen@gympie.qld.gov.au | www.gympie.qld.gov.au

 Please consider the environment before printing this email

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988

(Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning:

Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Michael Grant [Michael.Grant@gympie.qld.gov.au]

Sent: Monday, 30 January 2012 11:15 AM

To: Karle Matt

Cc: Brain Tim (DERM)

Subject: Re: Bonnick Road

Matt, I hope your health improves. Ear infections are not a good experience to have. Council is agreeable with the proposed 44 dB(A) for the transfer station at noise sensitive place and 47 dB(A) for the landfill at noise sensitive place.
Thanks

Michael Grant
Director of Community Services
Gympie Regional Council
(07) 5481 0611

>>> "Karl Matt" <Matt.Karle@derm.qld.gov.au> 30/01/2012 9:18 AM >>>
Michael and Ian,

I've received an email from Tanya Allen being comments about conditions for the Bonnick Road application. I am yet to review those comments in detail. I note however there appears to be no discussion in those comments regarding DERM's position about authorised noise emissions from the Transfer Station. At this stage, 44dB(A) is still the propose noise level for the Transfer Station.

Unfortunately I've come down with an ear infection in both ears following a procedure last week. I've not experienced this before, and am quite uncomfortable. I have forwarded Tanya's comments home and plan to work on this assessment from home later in the day if I can.

I provide this advice because, pending my condition, a short extension to the decision making period may be requested. At this stage, following final review of comments received from GRC on Friday afternoon, internal assessment reports are to be finalised, internal reviews are to be finalised, and Tim requires sufficient time as the delegate to read and decide on the recommendation.

If necessary, DERM will seek a brief extension to the decision making period until Monday 2nd February 2012 (next Monday).

Pending my condition, a colleague will contact GRC in the near future regarding a request with agreement to extend the decision making period. If any final comments from ANE are to be sent to DERM, they should also be CC'd to Tim Brain to be received in my absence.

I do apologise for this situation. I am trying my best to meet the deadline. However your assistance regarding any short extension (should it be required) would be greatly appreciate given the circumstances.

Regards

Matt Karle
Principal Environmental Officer (Wide Bay Burnett)
Environmental Services North
South East Region
Department of Environment and Resource Management
Ph: (07) 4121 1618
Email: matt.karle@derm.qld.gov.au

R

The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

Karle Matt

From: Christine Kennedy [Christine.Kennedy@gympie.qld.gov.au]
Sent: Tuesday, 31 January 2012 11:15 AM
To: Karle Matt
Cc: Michael Grant; Tanya Allen
Subject: Applicant agreement to further extend referral agency assessment period
Attachments: GRC extension request.pdf

Hi Matt,

Michael has asked that I forward the attached extension period request.

If you should need anything further, please do not hesitate to contact me.

Regards

Christine Kennedy
 Personal Assistant
 Director of Community Services
 Gympie Regional Council
 Community Services Directorate
 Telephone: (07) 5481 0611
 Facsimile: (07) 5481 0801

 This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error, please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has been sent to you by mistake. This e-mail is also subject to copyright. No part of this e-mail should be reproduced or distributed without the written consent of the copyright owner. Any personal information in this e-mail must be handled in accordance with the Privacy Act 1988 (Commonwealth). Opinions expressed in this e-mail do not necessarily reflect those of Gympie Regional Council ("GRC"). Information transmitted by e-mail cannot be guaranteed as either secure or error-free. E-mails may contain computer viruses or other defects and can be intercepted, interfered with, corrupted, lost, destroyed or arrive late or incomplete. GRC accepts no liability and provides no guarantee or warranty in relation to these matters or any information, action or advice contained in this e-mail. If you have any doubt about the authenticity of an e-mail purportedly sent by GRC, please contact us immediately. Warning: Although GRC has taken reasonable precautions, it is recommended that this e-mail and all attachments be scanned for viruses before opening. As the recipient you must accept liability for viruses accompanying this e-mail and all its attachments.

R

Notice

Applicant agreement to further extend referral agency assessment period

This notice is issued by the Department of Environment and Resource Management pursuant to section 284 (referral agency's assessment period) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
C/- GHD
PO Box 1300
GYMPIE QLD 4570

CC: Gympie Regional Council
PO Box 155
GYMPIE QLD 4570

Our reference: 221737

Re: Application for development approval – further extension of referral agency's assessment period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency, requests the applicant's written agreement to extend the referral agency's assessment period, by 3 business days to 3 February 2012 for the following application(s).

2. **Application Details**

Date application made or referred to DERM:

21-DEC-2010

Development approval applied for:

development permit

Aspect(s) of development:

Referral Jurisdiction		DERM Reference
Concurrence Response for a MCU involving an ERA. -----	<i>Sustainable Planning Regulation 2009 - Schedule 7, table 2, item 1</i>	SPCE01417310 -----

Property/Location description:

Street address - Bonnick Road GYMPIE QLD 4570
Lot/Plan - Lot 542 Plan MCH801883

R

**Applicant agreement to further extend information request period, referral
agency's assessment period, decision making period**

Please sign this Notice where indicated below and return it to Matt Karle, the Project Manager, at the contact details stated below.

Applicant agreement

I/We as the above named applicant agree to further extend the referral agency's assessment period to 3 February 2012.

CTPI 49-Sch4-Signature

CTPI 49-Sch4

APPLICANT SIGNATURE

31/1/2012

DATE

Michael Grant

PRINT NAME(S) OF SIGNATORY

Delegate

Tim Brain
Chief Executive,
Department of Environment and Resource Management

Enquiries:

Matt Karle
Department of Environment and Resource
Management
Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650
Phone: (07) 41211800
Fax: (07) 41211650
Email: matt.karle@derm.qld.gov.au

Karle Matt

From: Karle Matt
Sent: Tuesday, 31 January 2012 4:25 PM
To: 'Tania.Stenholm@gympie.qld.gov.au'
Attachments: bonnick ext - 3.2.2012.pdf

Hello Tania,

Please find attached signed agreement between DERM and GRC to extend the decision making period for Bonnick Road application, from 31st January 2012 to 3rd February 2012, for your records as assessment manager.

Regards

Matt Karle

R

Notice

Applicant agreement to further extend referral agency assessment period

This notice is issued by the Department of Environment and Resource Management pursuant to section 284 (referral agency's assessment period) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
C/- GHD
PO Box 1300
GYMPIE QLD 4570

CC: Gympie Regional Council
PO Box 155
GYMPIE QLD 4570

Our reference: 221737

Re: Application for development approval – further extension of referral agency's assessment period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency, requests the applicant's written agreement to extend the referral agency's assessment period, by 3 business days to 3 February 2012 for the following application(s).

2. **Application Details**

Date application made or referred to DERM:

21-DEC-2010

Development approval applied for:

development permit

Aspect(s) of development:

Referral Jurisdiction		DERM Reference
Concurrence Response for a MCU involving an ERA.	<i>Sustainable Planning Regulation 2009 - Schedule 7, table 2, Item 1</i>	SPCE01417310

Property/Location description:

Street address - Bonnick Road GYMPIE QLD 4570
Lot/Plan - Lot 542 Plan MCH801883

R

**Applicant agreement to further extend information request period, referral
agency's assessment period, decision making period**

Please sign this Notice where indicated below and return it to Matt Karle, the Project Manager, at the contact details stated below.

Applicant agreement

I/We as the above named applicant agree to further extend the referral agency's assessment period to 3 February 2012.

CTPI 49-Sch4-Signature

CTPI 49-Sch4-Signature
APPLICANT SIGNATURE

DATE

Michael Grant

PRINT NAME(S) OF SIGNATORY

CTPI 49-Sch4-Signature

Delegate
Tim Brain
Chief Executive,
Department of Environment and Resource Management

Enquiries:
Matt Karle
Department of Environment and Resource
Management
Wide Bay Burnett
PO Box 101
MARYBOROUGH QLD 4650
Phone: (07) 41211800
Fax: (07) 41211650
Email: matt.karle@derm.qld.gov.au

Karle Matt

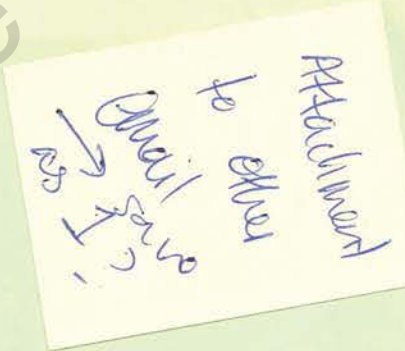
From: Karle Matt
Sent: Tuesday, 31 January 2012 1:41 PM
To: 'Tanya Allen'; 'ian.wolff@gympie.qld.gov.au'; 'Michael Grant'
Subject: Draft conditions of approval - 3rd amended.doc
Attachments: Draft conditions of approval - 3rd amended.doc
Please find attached a final draft of conditions for the Bonnick Road application.

Any comments appreciated.

Regards

Published on DES Disclosure Log
RTI Act 2009

R

Condition No.	Condition Wording	Required Amended Condition/ Change	Justification
1A5-1	<p>You are required to investigate alternative waste management practices to maximise, where possible, recycling and diversion of waste from being disposed to landfill.</p> <p>For the purpose of satisfying this condition in accordance with the waste management hierarchy and principles of the <i>Waste Reduction and Recycling Act 2011</i>, on or before 1 December 2012 you must conduct:</p> <ul style="list-style-type: none"> (i) a strategic waste management assessment, and include as a target, an aim to achieve a recycling landfill diversion rate of at least 70%; and (ii) reporting actual recycling diversion rates and any progress made in achieving the 70% target to the administering authority with each annual return after 1 December 2012. 	<p>You are required to investigate alternative waste management practices to maximise, where possible, recycling and diversion of waste from being disposed to landfill.</p> <p>For the purpose of satisfying this condition in accordance with the waste management hierarchy and principles of the <i>Waste Reduction and Recycling Act 2011</i>, on or before 1 December 2012 you must conduct:</p> <ul style="list-style-type: none"> (i) a strategic waste management assessment, and include as a target, an aim to achieve a recycling landfill diversion rate of at least 70%; and (ii) reporting actual recycling diversion rates and any progress made in achieving the 70% target to the administering authority within 2 months of the end of each financial year after 1 December 2012. 	<p>The WRR Act already specifies reporting requirements for local government. WRR Act, s.147 requires reporting within 2 months after the end of each financial year.</p> 
1A11-1	<p>Erect at the entrance and/or other prominent locations, signs maintained in good repair, written in a language appropriate for the user population and giving the following information:</p> <ul style="list-style-type: none"> ▪ the name of the site and a telephone contact number for site information; ▪ that disposal of waste is prohibited without the direction or permission of the landfill operator; and ▪ details of the facility opening hours, and the nearest facilities where persons can lawfully dispose of waste. 	<p>Erect at the entrance and/or other prominent locations, signs maintained in good repair, written in a language appropriate for the user population and giving the following information:</p> <ul style="list-style-type: none"> ▪ the name of the site and a telephone contact number for site information; ▪ that disposal of waste is prohibited without the direction or permission of the landfill operator; and ▪ details of the facility opening hours. 	<p>Doesn't apply to this facility. The Bonnick Road facility is the preferred disposal point in Gympie.</p> <p>Southside Waste Management Facility is the nearest facility, however it only accepts limited waste streams (no commercial, C&D or bulky household items). Therefore it is not recommended that the public is referred to Southside, because –</p> <ul style="list-style-type: none"> • the number of bins on-site may be overloaded within a short time; • this is likely to increase the amount of unwanted waste streams at the site, requiring additional labour to remove; and/or • customer dissatisfaction when they are locked out of Bonnick Road landfill, only to also be turned away from Southside if they are carrying any of the unaccepted waste types.
1B1-1	The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place.	The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place or commercial place.	Add commercial place because propose to remove commercial places from the definition of nuisance sensitive place. Further explanation provided in noise section.
1B1-2	The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place.	The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place or commercial place.	Add commercial place because propose to remove commercial places from the definition of nuisance sensitive place. Further explanation provided in noise section.
1C1-2	Stormwater runoff from disturbed areas must be directed to a sedimentation pond, which must be sufficiently constructed, operated and maintained to contain the runoff expected from a 24 hour storm with an average recurrence interval of 1 in 10 years.		<p>Initial comment:</p> <p><i>There is not enough room for a pond capable of containing run-off from the full site (old and new landfill cells). This should only relate to the new cell.</i></p> <p>New comment:</p> <p><i>Stormwater run-off from disturbed areas of the existing landfill during pre-closure and post-closure works will not be able to be directed to the sedimentation pond. Likewise, stormwater run-off from roads will not either.</i></p>
Schedule 1C – Table 1	(Release Limits)		
1C3-1	An investigation into the successful operation of	Clarification required	Initial advice from AGE Consultants:

Amendments to Draft Development Permit Conditions from DERM

Bonnick Road Waste Management Facility (Lot 542 MCH801883)

	<p>both the existing landfill and the landfill extension as a Bioreactor must be undertaken and completed within 6 months from the effective date of this Development Approval. The investigation must include (but not necessarily be limited to) the following matters:</p> <ul style="list-style-type: none"> ▪ anticipated goals to be derived from operating the landfill as a bioreactor; ▪ measures and procedures that will minimise the generation of leachate; ▪ existing leachate quality for the parameters stated in Schedule C Table 2 ▪ estimates of existing leachate quantity; ▪ leachate quality and quantity that ensures the landfill effectively operates as a bioreactor; ▪ estimated changes in leachate quality and quantity during the life of the landfill that demonstrates the landfill is effectively operating as a bioreactor; ▪ changes in leachate quality and quantity that would suggest the landfill is not effectively operating as a bioreactor; ▪ methods of leachate recycling that maximise the successful performance of the landfill as a bioreactor; ▪ circumstances where leachate must be removed from the site (quality or quantity); ▪ disposal and treatment options for leachate that must be removed from the site; ▪ assess of the capability of any external disposal or treatment facility that may receive leachate removed from the site, taking into consideration (among other things): <ul style="list-style-type: none"> a) the treatment or disposal capability of the facility; b) any environmental safeguards inherent in the selected treatment or disposal facility; and c) any environmental discharges from the selected treatment or disposal facility to the environment, and whether receipt of leachate from the landfill will affect the performance of the facility, and / or cause harm to the receiving environment. 		<p>"Two months does not seem sufficient to undertake the investigation – suggest ask for 12 months"</p> <p>Initial advice from CTPI 49-Sch4 <i>"Council has been recirculating leachate in the existing landfill for years. The new cell will hardly be built let alone full enough to for recirculation in two (2) months. Two (2) months for this investigation is not achievable."</i></p> <p>Advice from CTPI 49-Sch4-Nan <i>"I think it might be useful to ask DERM to clarify this or direct Council to published material that describes what a bioreactor is. Clarification of this matter should constrain the investigation within limits that will be agreeable to DERM."</i></p>
1C3-4	Results of the investigation required by Condition (C3-1) and the leachate management and monitoring procedure required by Condition (C3-2) must be submitted to the administering authority within 7 months of the effective date of this Development approval.		<p>Initial advice from CTPI 49-Sch4 <i>"We should ask for an 18 month time frame for the recirculation report so that we can get some waste in the new cell and connect the old landfill into it".</i></p>
1C4-2	Leachate collected by the leachate collection system under the landfill extension must not be returned to the existing landfill.	Delete this condition.	<p>Recirculation through the existing landfill must be retained as an approved method of leachate management. Recirculation wells were recently installed for this specific purpose.</p> <p>Initial advice from CTPI 49-Sch4 <i>"This is a problem as it does not allow recirculation in the old landfill. This</i></p>

Amendments to Draft Development Permit Conditions from DERM

Bonnick Road Waste Management Facility (Lot 542 MCH801883)

			<p>...uns we probably cannot recirculate leachate for about 5 years when there will be sufficient waste in the new cell. We should ask for this condition to be deleted. The basis would be that we have been successfully recirculating in the old landfill and that we are relying on it to treat the early leachate from the new cell".</p> <p>Matt Karle's response: "The existing landfill is not lined..."</p> <p>Subsequent advice from CTPI 49-Sch4 "...we can not distinguish between leachate from the old landfill and the new cell when it arrives at the leachate pump. We also need to recirculate leachate from the new cell through the old landfill in the initial stages of operation when there is not sufficient waste in the new cell for recirculation.</p> <p>My proposal is that we can demonstrate that the leachate in the old landfill is of good quality and that this is due to recirculation. If the leachate quality is good the unlined landfill poses less of a threat to the environment than one with poor leachate quality."</p>
1C5-1	Waste must not be deposited within 2m of underlying groundwater.	Waste must not be deposited within 1.5m of underlying groundwater.	<p>Initial advice from CTPI 49-Sch4 "We cannot achieve 2m separation everywhere. We should ask for 1.5m separation".</p> <p>Initial advice from AGE Consultants: "It will not be possible to achieve a 2m separation between the waste and the underlying groundwater, due to the presence of the groundwater depressurisation system – suggest try and remove this condition".</p> <p>Matt Karle's response: "Is the depressurisation system appropriate to support reducing the required 2 metre attenuation zone?"</p> <p>Subsequent advice from CTPI 49-Sch4 "My strategy is that we have always used the groundwater cut off as the groundwater level when discussing this issue with DERM. They refer to the cut off system as a depressurisation system, it is not, it is a cut off. With a depressurisation system the groundwater is always at the level of the system Bonnick Rd groundwater is often below our cut off system and will only rise to the system in high flow events.</p> <p>My proposal is that we demonstrate that the groundwater is normally below our system there by effectively demonstrating the 2m separation, and our system provides the additional security of limiting the height the groundwater can rise to. This being an effective separation of 600mm for the prepared base, 600mm equivalent for the GCL and 300mm for the confining layer."</p>
1C5-3	The groundwater depressurisation system required by Condition (C5-2) must be: i) Designed and overseen during installation by a suitably qualified, experienced and independent person. ii) Certified by that person as being constructed as per the design. iii) Monitored and maintained as necessary to ensure compliance with conditions (C5-2).		<p>Clarify – can this independent person be CTPI 49-Sch4-Name ?</p>
1C5-8	Any liquid collected by the depressurisation system must not be released to Peter and Paul	Liquid collected by the depressurisation system must only be released in compliance with the	Currently, there is no other option for disposal of liquid collected by the depressurisation system.

	Gully.	<p>release limits listed in Schedule 1C Table X (new table containing ANZECC trigger levels) from the following discharge location:</p> <p>W5: liquid from the depressurisation system to a tributary of Peter and Paul Gully.</p>	<p>Initial advice from CTPI 49-Sch4 <i>"This is unreasonable. It is only groundwater and we rely on discharge to Peter and Paul Gully in our design. The clause should be amended to say we can discharge if the groundwater is found to be contaminated or it poses environmental harm to the creek".</i></p> <p>Advice from AGE Consultants: <i>"Groundwater has to be discharged - there is no other option. Suggest this condition be amended to allow discharge of groundwater from the depressurisation system if it meets the requirements of Schedule 1C – Table 1".</i></p> <p>Matt Karle's response: <i>"... What impacts to surface water quality are likely if groundwater is released to surface water? ..."</i></p> <p>Subsequent advice from CTPI 49-Sch4 <i>"This is still a problem. The location of the new cell is at a groundwater discharge point and it would have always flowed to the gully at this point. We need to negotiate some standard for groundwater that can be released. The alternative is to put it into the leachate. We have put in a liner and a lot of money to stop this. I suggested ANZEC guidelines for the release if we cant agree on this possibly better than surface water quality?"</i></p>
Schedule 1C – Table 3	(Groundwater Quality Monitoring Requirements)	<p>Pre-landfilling baseline monitoring –</p> <ul style="list-style-type: none"> change frequency to quarterly 	<p>Monthly prior to the commencement of the landfill extension: It is too onerous and inefficient for groundwater to be monitored monthly prior to the commencement of the landfill extension, for the above reasons. It is unlikely that contamination of groundwater will occur prior to and during the construction phase. If the reason for this requirement is to collect baseline data, Council already collects groundwater monitoring data on a quarterly basis from this site – this data, already supplied to DERM, should be taken as the baseline groundwater quality.</p>
1C9-2	Soils and other materials used in the construction of any waste disposal cells or subcells, above ground embankments, sediment pond and final cover must achieve an <i>in situ</i> hydraulic conductivity which is sufficiently low and be of sufficient thickness so as to prevent or minimise the release of contaminants. As a minimum, permeabilities for various landfill features must at least comply with the corresponding limits specified in Schedule 1C – Table 5.	Substitute "in situ" testing with "laboratory testing and field testing"	<p>Advice from CTPI 49-Sch4 <i>"The condition is requiring in-situ testing of the clays used for construction of the dam and landfill base. This is a problem because if they fail you have to dig everything up and you have to dig holes in the work to perform the tests.</i></p> <p><i>I propose that we substitute laboratory testing and field testing to confirm the lab properties in the field. The process would be, we collect samples from the materials we have at our disposal on site, and we have already done some of this. We define laboratory sample preparation and testing and get laboratory permeabilities. The field testing will then be nuclear densities and microwave moistures to verify placement to the laboratory spec. We can offer these on each layer of the construction; this provides a better representation of the overall construction."</i></p>
Schedule 1C – Table 5	(Permeabilities and Special Requirements for Landfill Features)	Change the <u>minimum thickness (mm) of base and walls of sediment pond</u> from 1×10^{-9} to 1×10^{-7} .	<p>Initial advice from CTPI 49-Sch4 <i>"Requiring the sediment pond to be constructed from and lined with clay at 1×10^{-9} is unreasonable. The pond only holds dirty water. We should request that the clause be changed to say low permeability material 1×10^{-7}".</i></p>
Schedule H – Definitions (H12)	<p>"nuisance sensitive place" includes –</p> <ul style="list-style-type: none"> dwellings such as houses, units, motels, resort accommodation, nursing homes, caravans and mobile homes (provided they are principally used as residences), and including the 	<p>"nuisance sensitive place" includes –</p> <ul style="list-style-type: none"> dwellings such as houses, units, motels, resort accommodation, nursing homes, caravans and mobile homes (provided they are principally used as residences), and including the 	<p>Remove "shops, offices and other business premises and farming workplaces" from this definition. These activities are already covered by the definition for commercial place –</p> <p>(H17) "commercial place" means a place used as an office or for business or</p>

Amendments to Draft Development Permit Conditions from DERM

Bonnick Road Waste Management Facility (Lot 542 MCH801883)

	<ul style="list-style-type: none"> curtilage of any such places; a surgery or other medical institution; library, childcare centres, kindergartens, schools or other educational institutions; shops, offices and other business premises and farming workplaces; a park or garden that is open to the public; a protected area, or an area identified under a conservation plan as a critical habitat or area or major interest, under the <i>Nature Conservation Act 1992</i>; a Marine Park under the <i>Marine Parks Act 1992</i> 	<ul style="list-style-type: none"> curtilage of any such places; a surgery or other medical institution; library, childcare centres, kindergartens, schools or other educational institutions; a park or garden that is open to the public; a protected area, or an area identified under a conservation plan as a critical habitat or area or major interest, under the <i>Nature Conservation Act 1992</i>; a Marine Park under the <i>Marine Parks Act 1992</i> 	<p>commercial purposes.</p> <p>The reason for removing commercial activities from the "nuisance sensitive place" definition is because the conditions in Schedule D Table 1 prescribe separate noise levels for commercial places.</p> <p>If commercial activities are retained within the "nuisance sensitive place" definition, it defeats the purpose of having different noise levels for commercial places.</p>
1D1-1	Noise from activities must not cause an environmental nuisance at any nuisance sensitive place.	Noise from activities must not cause an environmental nuisance at any nuisance sensitive place or commercial place.	(if commercial activities are removed from the definition of "nuisance sensitive place").
1D1-4	In the event of a complaint about noise that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive place.	In the event of a complaint about noise that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive place or commercial place.	(if commercial activities are removed from the definition of "nuisance sensitive place").
Schedule D – Table 1	(Noise Levels)	<p>Change nuisance sensitive place criteria from 44 dB(A) to 47 dB(A).</p> <p>Change commercial place criteria 50 dB(A) to 55 dB(A).</p> <p>Change commercial criteria from an adjusted maximum sound pressure level (see heading of Table 1) to a LAeq,adj,1-hour.</p>	<p>Advice from CTPI 49-SC (ANE):</p> <p>"My main concern is the noise conditions during the landfill operation in Phase 1. Previously, there was a 47 dB(A) and 55 dB(A) criteria for the landfill extension only. Now this has been reduced to 44 dB(A) and 50 dB(A) for the landfill, which makes it less workable, based on noise predictions.</p> <p>It is understood that with the transfer station, there would be noise contribution from both developments (as referred to in Matt's email). However, splitting the conditions to 44 dB(A) for each site (which combines to 47 dB(A)), assumes equal contribution from both sites.</p> <p>It is more workable to have the noise conditions for the sites combined, so that it is simply 47 dB(A) and 55 dB(A) from all of the site. This allows for variation in noise contribution from the landfill and TS, and still preserves the original intent of the DERM draft conditions to achieve 47 dB(A) and 55 dB(A).</p> <p>Also, I think that the commercial criteria should also be an LAeq,adj,1-hour instead of an adjusted maximum sound pressure level (see heading of Table 1). This parameter would be consistent with the nuisance sensitive receptor criteria."</p>
1D1-6	No audible noise from the approved premises is authorised at a nuisance sensitive place (including the use of vehicles, plant and equipment) outside the hours 5:00pm to 7:00am Monday to Friday, and 3:00pm to 10:00am Saturday and Sunday.	No audible noise from the approved premises is authorised at a nuisance sensitive place or a commercial place (including the use of vehicles, plant and equipment) during the hours 5:00pm to 7:00am Monday to Friday, and 3:00pm to 10:00am Saturday and Sunday. These hours include public holidays.	<p>(if commercial activities are removed from the definition of "nuisance sensitive place").</p> <p>"outside the hours of..." means that Council can produce audible noise at night. Change "outside" to "during"?</p> <p>Council needs clarification that the opening hours will include public holidays. Council desires to retain the normal daily opening hours for public holidays – particularly in circumstances where public holidays (example – Australia Day)</p>

			fall on a week day. Advice from CTPI 49-Sch ANE): "The condition states "no audible noise...outside the hours of 5.00 pm to 7.00 am Monday to Friday, and 3.00 pm to 10.00 am Saturday and Sunday". The term "outside" used in this context would indicate audible noise cannot occur during 7.00 am to 5.00 pm. "Outside" needs to be replaced by "inside"."
1D2-1	In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance within 14 days, and the results notified to the administering authority once received from any external consultant. Monitoring must include: <ul style="list-style-type: none"> background noise level; LAeq, adjT, LAmx, adj, T, LA10, adjT 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; location, date and time of recording; and an interpretation of the results against the authorised noise levels authorised by Condition 1D1-5. 	In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance within 14 days, and the results notified to the administering authority once received from any external consultant with an interpretation of the results against the authorised noise levels authorised by Condition 1D1-5. Monitoring must include: <ul style="list-style-type: none"> background noise level; LAeq, adjT, LAmx, adj, T, LA10, adjT 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. 	Removing this requirement from the "monitoring" dot point list will mean that Council can submit the interpretation with the results once they are received from an external consultant, as opposed to having an interpretation of the results within the 14 day timeframe.
1D3-1	In the event noise emissions from the approved activity exceeds noise limits prescribed by Condition (D1-5) you must develop a noise management plan to assist resolve the complaint. The noise management plan must address at least, but not be limited to, the following matters: <ol style="list-style-type: none"> identification of component noise sources and activities at the place(s) which impact on nuisance sensitive places; the measured level of these noise sources and activities at nuisance sensitive places; the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive places; the predicted reduction in noise at nuisance sensitive places by implementing these measures; time frame for completion of the work proposed; any necessary community liaison and consultation; and any training requirements for staff in noise reduction practices. 	In the event noise emissions from the approved activity exceeds noise limits prescribed by Condition (D1-5) you must develop a noise management plan to assist resolve the complaint. The noise management plan must address at least, but not be limited to, the following matters: <ol style="list-style-type: none"> identification of component noise sources and activities at the place(s) which impact on nuisance sensitive places and commercial places; the measured level of these noise sources and activities at nuisance sensitive places and commercial places; the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive places and commercial places; the predicted reduction in noise at nuisance sensitive places and commercial places by implementing these measures; time frame for completion of the work proposed; any necessary community liaison and consultation; and any training requirements for staff in noise reduction practices. 	(if commercial activities are removed from the definition of "nuisance sensitive place").
1E1-1	Within 3 months from the commencement date		Clarification required from GRAYDEN CURRY –

Amendments to Draft Development Permit Conditions from DERM

Bonnick Road Waste Management Facility (Lot 542 MCH801883)

	of this Development Approval, disposal of putrescible waste to the existing landfill must cease.		the landfill extension be constructed and ready within 3 months (in time to accept putrescible waste)?
1E1-4	Any limited regulated waste disposed of at the landfill must only be in a solid form	Any limited regulated waste disposed of at the landfill must only be in a solid or semi-solid form.	<p>Council needs to be able to accept low hazard regulated waste in a semi-solid form:</p> <ul style="list-style-type: none"> • alum sludge from water treatment plants • screenings and grit from sewage treatment plants <p>These low hazard regulated wastes should be allowed within the limited regulated waste allocation (less than 10% of total waste received).</p>
1E1-6	<p>Notwithstanding any condition of this approval, you shall not cause, permit or allow deposition of the following waste materials in the landfill unit:</p> <ul style="list-style-type: none"> ▪ liquid or semi-liquid waste other than liquid or semi liquid waste which has been produced in the carrying out of the environmentally relevant activity; ▪ hot ash; ▪ material that is smouldering or aflame; ▪ material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises); ▪ radioactive wastes; ▪ explosives; ▪ ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction; ▪ tyres; ▪ contaminated soil; ▪ treatment tank sludge or residues; ▪ biosolids; ▪ grease trap wastes; and ▪ green waste that is of a size that can otherwise be shredded or composted. 	<p>Change to "tyres that are separated from the general commingled waste stream"</p> <p>Change to "contaminated soil, other than contaminated soil that contains asbestos"</p> <p>Change to "treatment tank sludge or residues, other than sewage treatment plant screenings and grit".</p> <p>Change to "green waste that is of a size that can otherwise be shredded or composted, and/or that is separated from the general commingled waste stream"</p>	<p>Council desires the opportunity to use contaminated soil (that has been remediated or that has low level contamination <i>i.e. still suitable for use in parks and gardens</i>) as day cover. It is acknowledged that in this circumstance the material is not considered and waste having been landfilled.</p> <p>There are however scenarios whereby Council will need to accept soil contaminated with material containing asbestos (<i>i.e. after a house fire</i>). In this circumstance, the material has to be landfilled for public health purposes.</p> <p>Council receives residual waste (screenings and grit) from its sewage treatment plants for disposal at the facility. No other treatment tank sludge or residues are accepted for disposal.</p> <p>Furthermore, it is not always practicable to recover small amounts of green waste or tyres that are inappropriately disposed on the tip-face commingled or disposed of within residential wheelie bins.</p>
2A3-2	the site based management plan must not be implemented r amended in a way that contravenes a condition of this approval.	<p>Typo – capital T</p> <p>Typo – replace "r" with "or"</p>	
2A5-1	Telephone the Department of Environment and Resource Management Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval	Telephone the Department of Environment and Resource Management Pollution Hotline on 1300 130 372 or local office on 4121 1800 as soon as practicable after becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval	Change to wording in (1A9-1)
2A5-2	Notwithstanding condition (A5-1), within 10 days of becoming aware of any release of contaminants not in accordance with the conditions of this approval, provide the following written advice to the administering authority:	Notwithstanding condition (2A5-1), within 10 days of becoming aware of any release of contaminants from the site not in accordance with the conditions of this approval, provide the following written advice to the administering authority:	Change to wording in (1A9-2)
	<ul style="list-style-type: none"> ▪ the full analysis results; and 	<ul style="list-style-type: none"> ▪ available analysis results; and 	

	<ul style="list-style-type: none"> ▪ details of investigation or corrective actions taken; and ▪ results of any subsequent analysis carried out to verify the success of any corrective actions taken. ▪ the name of the operator, including their approval / registration number; ▪ the name and telephone number of a designated contact person; ▪ quantity and substance released; ▪ any vehicle involved and its registration details; ▪ person/s involved; ▪ the location and time of the event / release or monitoring result; ▪ the suspected cause of the event or release; ▪ a description of the effects of the release on the receiving environment. 	<ul style="list-style-type: none"> ▪ details of investigation or corrective actions taken or proposed; and ▪ advice when any outstanding or subsequent analysis results will be provided ▪ advice when any subsequent analysis will be carried out to verify the success of any corrective actions taken. ▪ the name of the operator, including their approval / registration number; ▪ the name and telephone number of a designated contact person; ▪ quantity and substance released; ▪ any vehicle involved and its registration details; ▪ person/s involved; ▪ the location and time of the event / release or monitoring result; ▪ the suspected cause of the event or release; ▪ a description of the effects of the release on the receiving environment. 	
2B1-1	The release of dust and / or particulate matter, noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place.	The release of dust and / or particulate matter, noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place or commercial place.	
2B2-1	The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place.	The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any nuisance sensitive place or commercial place.	
2C1-1	Contaminants arising from the approved activity must only be released to land in accordance with conditions relating to ERA 60 – Landfill Operations approved for the subject site		Clarification - is this from the site?
2C1-5	Chemicals or fuels captured in any dedicated Transfer Station containment system must not be released to the landfill at the subject site.		Clarification – in the scenario where small oil spills are cleaned up with sokerol, does this mean Council can not bury the sokerol on-site? The facility will be a lined landfill.
2D1-4	Metal collection must only occur inside the Transfer Station dwelling.	Collection of bulky metal items must only occur inside the Transfer Station dwelling.	Clarification – does this refer to collection of bulk metal? Council desires to collect small metal items such as gas cylinders, aluminium cans and aluminium lengths in the resource recovery building.
Schedule H – Definitions (H12)	<p>"nuisance sensitive place" includes –</p> <ul style="list-style-type: none"> ▪ dwellings such as houses, units, motels, resort accommodation, nursing homes, caravans and mobile homes (provided they are principally used as residences), and including the curtilage of any such places; ▪ a surgery or other medical institution; ▪ library, childcare centres, kindergartens, schools or other educational institutions; ▪ shops, offices and other business premises and farming workplaces; ▪ a park or garden that is open to the public; 	<p>"nuisance sensitive place" includes –</p> <ul style="list-style-type: none"> ▪ dwellings such as houses, units, motels, resort accommodation, nursing homes, caravans and mobile homes (provided they are principally used as residences), and including the curtilage of any such places; ▪ a surgery or other medical institution; ▪ library, childcare centres, kindergartens, schools or other educational institutions; ▪ a park or garden that is open to the public; ▪ a protected area, or an area identified under a conservation plan as a critical habitat or area 	<p>Remove "shops, offices and other business premises and farming workplaces" from this definition. These activities are already covered by the definition for commercial place –</p> <p>(H17) "commercial place" means a place used as an office or for business or commercial purposes.</p> <p>The reason for removing commercial activities from the "nuisance sensitive place" definition is because the conditions in Schedule D Table 1 prescribe separate noise levels for commercial places.</p> <p>If commercial activities are retained within the "nuisance sensitive place"</p>

	<ul style="list-style-type: none"> a protected area, or an area identified in a conservation plan as a critical habitat or area of interest, under the <i>Nature Conservation Act 1992</i>; a Marine Park under the <i>Marine Parks Act 1992</i> 	<ul style="list-style-type: none"> or major interest, under the <i>Nature Conservation Act 1992</i>; a Marine Park under the <i>Marine Parks Act 1992</i> 	<p>... condition, it defeats the purpose of having different noise levels for commercial places.</p> <p>Advice from CTPI 49-Sc1 (ANE): <i>"H12 and H17 - it would appear that office/business/commercial premises are defined under both the nuisance sensitive and commercial place definitions. I believe that Dot Point 4 of H12 should be defined under H17 (commercial place)."</i></p>
Schedule H – Definitions (H14)	"Noise Reduction Coefficient" (NRC) means the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection while an NRC of 1 indicates perfect noise absorption.		<p>Definition disputed.</p> <p>Advice from CTPI 49-Sc1 (ANE): <i>"NRC means the arithmetic average of the sound absorption coefficients at the four frequencies of 250, 500, 1000 and 2000 Hz."</i></p>
Schedule H – Definitions (H16)	"LA, 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.	"LA, max adj, 10 min" means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.	<p>Reword definition.</p> <p>Advice from CTPI 49-Sc1 (ANE): <i>"L_{Amax,adj,T} should be L_{Amax,adj,10min}, based on the definition provided which refers to a 10 minute period."</i></p>
2D1-1	Noise from the approved activity must not cause a nuisance at any nuisance sensitive location.	Noise from the approved activity must not cause a nuisance at any nuisance sensitive location or commercial place.	
2D1-5	Disposal bins must be constructed of material that minimises noise from waste disposal, or suitably lined to noise emissions from waste disposal.	Delete	<p>Advice from CTPI 49-Sch4: <i>"We can not operate a transfer station with plastic bins. The bins will eventually be replaced with a transfer trailer and other than rubber lining which is expensive and a maintenance problem"</i></p>
2D1-6	Vehicle movements within the approved premises must be actively and passively managed to regulate speeds to 20km/hr or less along internal roads and through the recovery building.	Vehicle movements within the approved premises must be actively and passively managed to regulate speeds to 40km/hr or less along internal roads and through the recovery building.	Traffic control devices will be installed on site to control the speed of user's vehicles in public areas of the site.
2D1-7	The roof and walls of the Transfer Station must be constructed of, and / or lined with material that achieves a Noise Reduction Coefficient of at least 0.92.	The roof and walls (except the lower 2.5 m of the walls) of the Transfer Station must be constructed of, and / or lined with material that achieves a Noise Reduction Coefficient of at least 0.92.	<p>Advice from CTPI 49-Sc1 (ANE): <i>"Only the roof and upper walls (above the lower concrete wall section) needs to be lined with absorptive material achieving an NRC of 0.92. The condition needs to be clearer stating "the roof and walls (except the lower 2.5 m of the walls) must be constructed..."</i></p> <p>Transfer Station Design <i>The transfer station will have concrete material for the lower portion of the walls (bottom 2.5 meters). The upper walls do not need to be concrete, but should achieve an Rw rating of 31, as indicated in the 2298addendumreport02. The absorptive lining achieving an NRC 0.92 is for the roof and all walls (except the lower concrete section).</i></p> <p>Recovery Building <i>The noise from the recovery building is not expected to be significant, especially if metal collection is to occur within the main transfer station. The modelling has taken into account vehicle movement through the recovery building."</i></p>
2D1-8	The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented.	The roof and walls of the Transfer Station must be constructed to ensure open gaps are prevented, notwithstanding ventilation requirements.	<p>Advice from CTPI 49-Sc1 (ANE): <i>"No open gaps in the roof might not be practicable. There needs to be room to allow for some form of ventilation (e.g. possibly a ridge vent). Strictly speaking, a ridge vent is a gap in the roof, albeit a very small but necessary one."</i></p> <p><i>"... so condition (2D1-8) should allow for some form of ventilation."</i></p>

2D1-9	Acoustic barriers must; <ul style="list-style-type: none"> be installed around any waste truck loading area; be installed to a height of at least 5.0m extending from the designed roller doors at the South Western and North Eastern external walls of the Transfer Station, as per Appendix 1; be installed to a height of 2.4m at the Bonnick Road Boundary, as per Appendix 2; be continuous with no air gaps and be constructed of material with a minimum mass density of 12kg/m2 	Acoustic barriers must; <ul style="list-style-type: none"> be installed around any waste truck loading area, as per Appendix 1; be installed to a height of at least 5.0m extending from the designed roller doors located at the north-western and north-eastern corner of the Transfer Station, as per Appendix 1; be installed to a height of 2.4m at the Bonnick Road Boundary, as per Appendix 2; be continuous with no air gaps and be constructed of material with a minimum mass density of 12kg/m2 	Advice from CTPI 49-S6 (ANE): <p>"I assume that Appendix 1 and 2 refer to Figures 1 and 2 from the 2298addendumreport02.pdf? If so, it is recommended that Dot Point 1 also references Appendix 1 to show the barrier and roof location around the truck loading area"</p> <p>"For Dot Point 2, it is preferred that the following is stated to avoid confusion: "be installed to a height of at least 5.0 m extending from the designed roller doors located at the north-western and north-eastern corner of the Transfer Station, as per Appendix 1". It is noted that the 2 furthest roller doors from Bonnick Road (south-western and south-eastern corner of the building) do not need acoustic barriers. The appendix figure would clarify the locations, but changing the text will avoid any confusion."</p>
2D1-10	Prior to the commissioning of the Transfer Station, the facility must be physically assessed by a person with appropriate noise mitigation qualifications and experience, verifying by way of a written report, that measures required to comply with conditions (D1-6) through (D1-9) have been installed and that the measures will be effective at mitigating the potential for noise nuisance at nuisance sensitive premises.	Prior to the commissioning of the Transfer Station, the facility must be physically assessed by a person with appropriate noise mitigation qualifications and experience, verifying by way of a written report, that measures required to comply with conditions (2D1-6) through (2D1-9) have been installed.	Conjecture. Advice from CTPI 49-Sch (ANE): <p>"Delete the phrase "and that the measures will be effective at mitigating the potential for noise nuisance at nuisance sensitive premises". Acoustic consultants, such as ourselves, will not state that measures "will be" effective after simply checking that all measures have been installed. Even in modelling reports, consultants will always indicate noise measures are "predicted" to be effective in mitigating noise. It is sufficient to confirm that all noise measures have been installed, which is the typical requirement of certification conditions for any development."</p>
2D1-12	In the event of a complaint about noise emissions from the Transfer Station that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive place.	In the event of a complaint about noise emissions from the Transfer Station that the administering authority does not consider to be frivolous or vexatious, and which cannot otherwise be resolved through negotiation, at the request of the Administering Authority the Registered Operator must conduct noise monitoring of emissions from the approved activity in the vicinity of the closest nuisance sensitive place or commercial place.	
2D1-14	No audible noise from the Transfer Station is authorised (including access by or use of vehicles, plant or equipment) outside the hours 5:00pm to 7:00am Monday to Friday, and 4:00pm to 9:00am Saturday and Sunday.	No audible noise from the Transfer Station is authorised at a nuisance sensitive place or a commercial place (including the use of vehicles, plant and equipment) during the hours 5:00pm to 7:00am Monday to Friday, and 4:00pm to 9:00am Saturday and Sunday. These hours include public holidays.	Needs to specify location where audible noise is heard i.e. a nuisance sensitive place or a commercial place. "outside the hours of..." means that Council can produce audible noise at night. Change "outside" to "during"? Council needs clarification that the opening hours will include public holidays. Council desires to retain the normal daily opening hours for public holidays – particularly in circumstances where public holidays (example – Australia Day) fall on a week day. Advice from CTPI 49-S6 (ANE): <p>"As per comments on 1D1-6. Also, the condition needs to include where there is to be no audible noise, similar to 1D1-6 ie. nuisance sensitive place."</p>
Schedule D – Table 1	(Noise Levels)	Change nuisance sensitive place criteria from 44 dB(A) to 47 dB(A). Change commercial place criteria 50 dB(A) to 55 dB(A). Change commercial criteria from an adjusted	Advice from CTPI 49-S6 (ANE): <p>"It is more workable to have the noise conditions for the sites combined, so that it is simply 47 dB(A) and 55 dB(A) from all of the site. This allows for variation in noise contribution from the landfill and TS, and still preserves the original intent of the DERM draft conditions to achieve 47 dB(A) and 55 dB(A)."</p>

		maximum sound pressure level (see heading if Table 1) to a LAeq,adj,1-hour.	
2D2-1	<p>In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:</p> <ul style="list-style-type: none"> background noise level; LAeq, adjT, LAmax, adj, T, LA10, adjT 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. 	<p>In the event of a complaint to the administering authority that is not considered to be frivolous or vexatious, and at the request of the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance within 14 days, and the results notified to the administering authority once received from any external consultant. Monitoring must include:</p> <ul style="list-style-type: none"> background noise level; LAeq, adjT, LAmax, adj, T, LA10, adjT 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. 	<p>Results to be notified after receiving from an external consultant – likely this will be outside of the 14 day monitoring period.</p> <p>Advice from CTPI 49-Scl (ANE): <i>"Make this condition identical to 1D2-1, which does not require monitoring AND results to be completed within 14 days (which is not practicable)."</i></p>
2D3-1	<p>In the event noise emissions from the approved activity exceeds noise limits prescribed by Condition (D1-3) you must, within one week, develop a noise management plan to assist resolve the complaint. The noise management plan must address at least, but not be limited to, the following matters:</p> <ul style="list-style-type: none"> (viii) identification of component noise sources and activities at the place(s) which impact on nuisance sensitive places; (ix) the measured level of these noise sources and activities at nuisance sensitive places; (x) the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive places; (xi) the predicted reduction in noise at nuisance sensitive places by implementing these measures; (xii) time frame for completion of the work proposed; (xiii) any necessary community liaison and consultation; and (xiv) any training requirements for staff in noise reduction practices. 	<p>In the event noise emissions from the approved activity exceed noise limits prescribed by Condition (2D1-13) you must, develop a noise management plan to assist resolve the complaint. The noise management plan must address at least, but not be limited to, the following matters:</p> <ul style="list-style-type: none"> (i) identification of component noise sources and activities at the place(s) which impact on nuisance sensitive places or commercial places; (ii) the measured level of these noise sources and activities at nuisance sensitive places or commercial places; (iii) the control or abatement measures necessary to reduce noise nuisance at nuisance sensitive places or commercial places; (iv) the predicted reduction in noise at nuisance sensitive places or commercial places by implementing these measures; (v) time frame for completion of the work proposed; (vi) any necessary community liaison and consultation; and (vii) any training requirements for staff in noise reduction practices. 	<p>Impracticable timeframe. Remove the one week timeframe and revise condition (2D3-2) to include a one month timeframe, as per wording used in condition (1D3-1).</p> <p>Advice from CTPI 49-Scl (ANE): <i>"Make this condition identical to 1D3-1, which takes out reference to 1 week (which is not practicable) and allows for 1 month to a draft NMP."</i></p>
2D3-2	A draft Noise Management Plan must be submitted to the Administering Authority for review and comment.	A draft Noise Management Plan must be submitted to the Administering Authority for review and comment within one month of a noise emission that exceeds limits prescribed by Condition (2D1-13).	Change to same wording as condition (1D3-2)
D2F1-1	Only the following waste materials are permitted to be accepted through the Transfer	Only the following waste materials are permitted to be accepted through the Transfer	<p>Advice from CTPI 49-Sch4</p> <p><i>"It would appear that either DERM or I have the wrong impression of this transfer station. I thought it was predominately for householders. I feel that the</i></p>

	<p>Station:</p> <p>a) clean construction and demolition waste (C&D); and</p> <p>b) clean commercial and industrial waste (C&I)</p> <p>Note – C&D AND C&I wastes are defined in the Definitions Section of this Development Approval.</p>	<p>Station for disposal to landfill:</p> <p>a) construction and demolition waste (C&D);</p> <p>b) commercial and industrial waste (C&I); and</p> <p>c) municipal solid waste (MSW)</p> <p>d) limited regulated waste</p> <p>Note – C&D wastes, C&I wastes and MSW are defined in the Definitions Section of this Development Approval.</p>	<p><i>limits set are unworkable what are your comments".</i></p> <p>Waste materials permitted to be accepted through the Transfer Station for disposal MUST include municipal solid waste (MSW).</p> <p>The specified waste streams are the only waste streams that will be accepted <u>for disposal</u> through the transfer station. The following waste streams will be accepted at the transfer station (for recycling) –</p> <ul style="list-style-type: none"> regulated waste (tyres, batteries, oil) cardboard and commingled recyclables. <p>Therefore the wording needs to reflect that this acceptance criterion is only for items to be disposed of to landfill.</p> <p>No definition for "clean".</p> <p>Definitions for C&D, C&I and MSW are not in the definitions section of the development approval, as described.</p>
2F1-2	Regulated waste must not be accepted through the Transfer Station.	Delete	<p>Low hazard regulated waste (STP screenings and grit) may need to be accepted through the transfer station.</p> <p>Furthermore, limited regulated waste is accepted through the transfer station – for recycling (as above).</p>

Assessment report

Environmental Protection Act 1994

Environmentally relevant activities assessed under IDAS

ASSESSMENT NOTES:

1. Each assessment report prepared to support a decision must be structured in the format shown below.
2. Explanatory notes for completing the report are given under each heading in brackets.
3. The report is to be completed, where indicated, to indicate that supervisory review/endorsement has occurred, and the decision stages of the process.

This assessment report is for environmentally relevant activities to be assessed via the Integrated Development Assessment System in the Sustainable Planning Act 2009.

COUNCIL DA NUMBER: MRG:VMK01396	DERM PROJECT NO: 221737
DERM Concurrence Response (CR) NUMBER: SPCE01417310	FILE NO: MBH2951
APPLICATION TYPE: MCU for ERA	
DEVELOPMENT TRIGGER: Landfill and Transfer Station	
DEVELOPMENT DESCRIPTION: Bonnick Road	
LOCATION DESCRIPTION: Bonnick Road, Gympie Qld 4570	
APPLICANT: Michael Ball / Michael Grant	
TRADING AS: Gympie Regional Council	

1. Issues

Landfill

- An existing landfill on the site in question is approaching capacity. An extension of the landfill is proposed, as is the installation of a Transfer Station.
- The proposed landfill extension incorporates a groundwater cut off system, leachate collection, and stormwater detention for runoff from disturbed areas. In addition, a substantial clean water diversion within the site to divert clean water around the landfill has recently been completed.
- Some aspects of the proposal are not consistent with DERM's Landfill Siting Design and Rehabilitation Guideline for Landfills, including:
 - Whilst the floor of the landfill extension is above the Q100 level, the landfill extension is partially within 100m of the Q100 level. The sedimentation pond for stormwater runoff from disturbed areas is within the Q100 level. The design includes a bund around the sedimentation pond to exclude flood waters from the sedimentation pond.
 - The base of the landfill will be approximately 1m above maximum recorded groundwater level. DERM's guideline recommends a 2m attenuation zone. Groundwater can fluctuate up to 600mm under the landfill extension, hence the base of the landfill may be 1.6m above standing groundwater levels. Notably, the development includes a groundwater cutoff system, which will passively cutoff groundwater at a predetermined level beneath the landfill liner, to provide security for the liner and to provide a small attenuation zone beneath waste disposed in the landfill. This system will also operate as a groundwater monitoring feature, and does not require active dewatering or acting pumping. Should groundwater rise to a level that intersects the cut off system, it will passively release to Peter and Paul Gully. Monitoring conditions require surface and groundwater monitoring, including monitoring of liquid in the cutoff system as an early detection system. Annual impact reporting is a requirement of the CR.
 - The proposed extension is approximately 200+m from nuisance sensitive premises (residential). DERM's Guideline recommends a 500m buffer to nuisance sensitive premises. Whilst the landfill extension is within the guideline buffer, topography between the landfill extension and residents is favourable, meaning the landfill is obscured from view for most residents to the north, and who are also separated from the landfill by a strip of commercial / industrial premises. In addition, the

R

existing landfill means the ongoing use of the site for land filling purposes is not a new use for the site. In effect, once the existing landfill is complete and the waste disposal to the landfill extension commences, it is anticipated that residents should notice some improvement in the impact on environmental nuisance, given the existing landfill is occurring at an elevated height (at least until the extended area reaches a similar height). The new landfill will commence at the floor of the extension, which may reduce impacts at nuisance sensitive premises for an extended period of time. In addition, because the application includes a transfer station, persons attending the site for waste disposal will not generally be directed to the tip face. Therefore, in general terms, only council machinery will be operating at the tip face, for which tightened conditions regulating day cover and hours of operation should significantly improve amenity compared to the existing situation.

- Leachate recirculation is proposed, which will result in recirculation of leachate from the lined landfill extension to the unlined existing landfill. Whilst recirculation of leachate to the unlined existing landfill is not ideal, the following are taken into account:

- * The existing landfill would appear to have underlying clay soils with low natural permeability;
- * Groundwater monitoring for the existing landfill, as interpreted by AGE consultants, suggests that leachate from the existing landfill has been contained within the landfill cells;
- * Connecting the existing landfill leachate collection system to the landfill extension leachate containment system (which is also lined), would appear to provide an improved environmental outcome, by providing a clear flow path for accumulated leachate from the existing landfill in to a lined and designated collection sump in the landfill extension;
- * According to the consultant, recirculation of leachate within the entire landfill provides an opportunity for onsite and beneficial leachate management (by allowing and facilitating decomposition of putrescible waste within the landfill and leachate polishing). Alternatives are removal of leachate from the site for disposal to sewer – which discharges to the Mary River, or collection and evaporation – which concentrates contaminants; requires land space; and could cause odour nuisance.

Measures such as the groundwater cut off system, Geotextile Clay Liner (GCL), daily cover, stormwater pond; existing groundwater monitoring results and extensive groundwater monitoring requirements in the proposed conditions assist to minimise risks associated with the proposed activity.

Supporting expanded landfilling on the current site with the measures detailed in the design assists to improve performance and reduce risks associated with an existing activity, whilst also containing landfill impacts to a site already impacted by landfilling (as opposed to creating new impacts on a greenfield site).

- Groundwater intercepted by the groundwater cut off system will be discharged to Peter and Paul Gully. Whilst groundwater quality is slightly brackish and exceeds QWQG's, it is of substantially better quality than stock water guidelines, and is only slightly brackish in nature. Release estimates under "more than worst case scenarios" suggests less than 1000L per day could be released when groundwater rises to a level that intercepts the cut off system. The quantity and quality is considered inconsequential and unlikely to have any impacts on the values of Peter and Paul gully, which is a modified catchment, and which likely already receives groundwater expression during low surface flow situations. It is also likely that when groundwater levels are high, it is also likely that surface flows in Peter and Paul Gully will be substantial.
- According to the consultant, 44dB(A) is a planning noise level goal for the receiving environment. Noise emissions from the Landfill have been authorised to 47dB(A) or BG + 3 (which ever is higher) at nuisance sensitive premises. LAeq has been adopted as the noise parameter in the CR, given noise from the landfill will include steady noise of vehicles and machinery and some impulsive noise from waste tipping and compaction. LAeq is the acoustic quality objective parameter used in the Noise EPP. In addition, Bruel and Kjaer booklet "Environmental Noise" states that "extensive research has shown the Laeq to correlate well with annoyance", and that "noise acceptable on a Wednesday afternoon may be distressing early on a Sunday". The authorised noise level for the landfill is slightly elevated compared to noise level prescribed for Transfer Station (44dB(A)). Notably, the authorised 47dB(A) is 3 dB(A) less than the 50dB(A) Acoustic Quality Objective stated in the EPP Noise. In addition, the following method was used to determine 47dB(A) as being a reasonable authorised noise level.

- Table 1 in the Planning for Noise Control Guideline (PfNCG) recommends a noise level for residential areas near a commercial area of 45dB(A)
- The existing BG is 39dB(A) L90, which is 6dB(A) lower than the recommended noise level in Table 1.
- Table 2 Row C indicates that when BG is below recommended by 6dB(A) or more, the L90,1hr planning levels should be set at 5dB(A) higher than the existing background, which would be 44dB(A).
- Equation 1 in the PfNCG states the first step in setting noise criteria for a new development is to calculate the specific noise level using Equation 1. In this equation, L_{Aeq} is equal to $L_{90} + 3dB(A)$. The $L_{90,1hr}$ determined from the above tables $+3dB(A)$ equals 47dB(A) L_{Aeq} .
- In addition, and supporting advice in the Bruel & Kjaer booklet regarding times when noise may be more annoying, noise from the landfill is not authorised outside the hours of 7am – 5pm Monday to Fri and 10am – 3pm on Weekends. The noise restrictions on the landfill are considered restrictive when compared to other DERM approvals, and are intended to assist protect and improve amenity at nuisance sensitive receptors compared to current operations.

Transfer Station

- The design of the transfer station was amended following the initial submission to reduce potential noise emissions from the facility. In addition, ANE consultants remodelled potential noise emissions from the proposed facility to demonstrate theoretical compliance with 44dB(A) at nearby nuisance sensitive premises. Specifically, measures to reduce noise were implemented in the design to minimise noise emissions at existing and future potential nuisance sensitive receptors to the north of the subject property.
- 44dB(A) is determined by the consultant to be a noise level that would comply with the Planning for Noise Control Guidelines.
- The design of the transfer station was amended to enclose the facility using material that achieves a Noise Reduction Co-efficient of 0.92, for the roof and walls above 2.5m. Below 2.5m, a concrete wall (part of the original design) will remain in place, which will also assist to contain noise, though won't absorb it.
- In addition to enclosing the facility, acoustic barriers are proposed (and required) in several locations external to the building to shield truck loading bays and along Bonnick Road accessway.
- Other commitments in the application, that have been specifically conditioned include no green waste shredding; no concrete crushing; and scrap metal collection (defined to be the use of an excavator or other heavy machinery to load storage bins or trucks to remove metal from the site) to occur inside the transfer station building.
- No contaminant releases to stormwater are authorised – monitoring of the landfill activity will assist to demonstrate compliance with these requirements.

2. Description of operation

An existing landfill is operating at Bonnick Road, Gympie. That landfill is approaching full capacity, and there is an urgent need to extend the landfill to provide waste disposal options for council.

Council also requires a transfer station to sort waste coming to the facility. This will likely increase given the recently introduced Waste Recycling and Recovery legislation, which aims to increase diversion of waste from landfill to sustainable reuse options.

3. Emissions, discharges and environmental impacts

- Leachate; sediment; dust; noise; odour, which are explained in more detail elsewhere in this assessment report.

4. Assessment considerations

The assessment must cover the requirements imposed on the assessment manager and concurrence agency by the *Sustainable Planning Act 2009*, the regulatory requirements of the *Environmental Protection Regulation 2008*, the standard criteria from the *Environmental Protection Act 1994*, and the application materials. The assessing officer must turn their mind to all of the relevant matters and

document in this assessment report how each of these requirements has been considered and taken into account in deciding the matter under assessment.

Particular note is to be taken of the regulatory requirements in rr. 58 and 63 of the Environmental Protection Regulation 2008 which may require the assessing officer to recommend refusal of an application in particular circumstances.

i) Sustainable Planning Act 2009 requirements for concurrence agencies

Section 282 of the *Sustainable Planning Act 2009* sets out the matters a referral agency **must**, to the extent relevant to the development and within the limits of its jurisdiction, assess the application against and having regard to.

Note: It is essential that this assessment report reflect the consideration that has been given to the policies, codes and requirements set out in the planning instruments created under the provisions of the *Sustainable Planning Act 2009*.

Legislative considerations Assess the application against—	State how considered and any conditions that follow
(a) the State planning regulatory provisions applied by the referral agency	<p>State Planning Regulatory Provisions</p> <p><i>Draft Particular Waste Management Activities on Existing Landfills State Planning Regulatory Provisions – in effect as published in the Government Gazette</i></p> <p>N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPRP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p>
(b) the regional plan for a designated region, to the extent it is not identified in the planning scheme as being appropriately reflected in the planning scheme	<p>Regional Plans</p> <p><i>Wide Bay Burnett Regional Plan (September 2011)</i></p> <p>N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the Plan as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p>
(c) for a concurrence agency—any applicable concurrence agency codes that are identified as a code for IDAS in this or another Act	<p>Environmental Protection Act 1994 & Environmental Protection Regulation 2008</p> <p>The proposed development has been assessed against the relevant requirements of the above legislation, as detailed throughout this assessment report.</p> <p>Wild Rivers Code</p> <p>N/A – not in a declared Wild River Area.</p> <p>Code of Environmental Compliance</p> <p>N/A</p>
(d) State planning policies applied by the referral agency, to the extent the policies are not identified in— (i) any relevant regional plan as being appropriately	<p>SPPs – applied by DERM</p> <p><i>SPP 2/02 Planning and Managing Development Involving Acid Sulfate Soils 1.0</i></p> <p>Reflected in the Cooloolia Shire Council Planning</p>

R

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Assess the application against—	State how considered and any conditions that follow
<p>reflected in the regional plan; or (ii) the planning scheme as being appropriately reflected in the planning scheme</p> <p>Note: There are important State Planning Policies that must be considered and taken into account when assessing an application for an environmentally relevant activity.</p>	<p>Scheme.</p> <p><u>SPP4/10 Healthy Waterways</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009). Furthermore, this policy does not apply as the development is outside the scope being an application for an MCU for an ERA (s2.10).</p> <p><u>SPP5/10 Air, Noise and Hazardous Materials</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009). Furthermore, not applicable as the development is not for a 'sensitive land use' and is not located in a 'management area'.</p> <p><u>SPP4/11 Protecting Wetlands of High Ecological Significance in Great Barrier Reef Catchments</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p> <p><u>SPP 3/11 Coastal Protection</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p> <p><u>SPP 1/12 Protection of Queensland's Strategic Cropping Land</u> N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p>
(e) the laws that are administered by, and the policies that are reasonably identifiable as policies applied by, the referral agency	. Considered above in (a) – (d).

Legislative considerations Assess the application having regard to—	State how considered and any conditions that follow
(a) the State planning regulatory provisions ¹ not applied by the referral agency	State Planning Regulatory Provisions

¹ Under section 16 of SPA, a **State planning regulatory provision** is an instrument made under division 2 and part 6 of SPA for an area to advance the purpose of SPA by—

(a) providing regulatory support for regional planning or master planning; or

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Assess the application having regard to—	State how considered and any conditions that follow
	<p><u>Wide Bay Burnett State Planning Regulatory Provisions 2011</u></p> <p>N/A – had not taken effect when application properly made. Furthermore no weight can be given to considerations of the SPRP as it came into affect after the department's referral day for the application (s282(3) SPA 2009).</p>
<p>(b) State planning policies not applied by the referral agency, to the extent the policies are not identified in—</p> <p>(i) any relevant regional plan as being appropriately reflected in the regional plan; or</p> <p>(ii) the planning scheme as being appropriately reflected in the planning scheme</p> <p>Note: There are important State Planning Policies that must be considered and taken into account when assessing an application for an environmentally relevant activity.</p>	<p>SPPs – not applied by DERM</p> <p><u>SPP 1/92 Development and the Conservation of Agricultural Land 1.0</u></p> <p>Reflected in the Cooloola Shire Council Planning Scheme (see below).</p> <p><u>SPP2/07 Protection of Extractive Resources</u></p> <p>Not applicable. Development not located within a Key Resource Area, a resource/processing area, separation area nor a transport route's separation area.</p>
(c) the structure plan for any declared master planned area	None known – applied by council
(d) the master plan for any declared master planned area	None known – applied by council
(e) a temporary local planning instrument for the planning scheme area	None known – applied by council
(f) the planning scheme	<p>The subject site is zoned Community in the Cooloola Shire Council Planning Scheme and is located adjacent to Industry, Rural and other Community zones.</p> <p><u>SPP 1/92 Development and the Conservation of Agricultural Land 1.0</u></p> <p>The planning scheme overlay map OM8 Sheet 1 shows that the site contains both Class A and Class B Good Quality Agricultural Land (GQAL). The surrounding land to the development also contains a mix of Class A and B GQAL, with dominant Class A GQAL occurring west of Gympie township.</p> <p>Resource Areas Code (Division 7.9) would appear to apply to the subject site due to the presence of GQAL. The site has been used for landfilling since approximately 1980. The site has no remaining agricultural values. Ongoing use of the landfill for landfilling and waste management will not impact on any remaining lands surrounding the site for potential agricultural purposes. Also noteworthy, ongoing use</p>

(b) providing for a charge for the supply of infrastructure; or
(c) protecting planning scheme areas from adverse impacts.

A State planning regulatory provision includes a draft State planning regulatory provision that under section 73 of SPA has effect as a State planning regulatory provision.

R

Legislative considerations Assess the application having regard to—	State how considered and any conditions that follow
	<p>of the site for waste management minimises the need to establish a new landfill on land that may have agricultural use.</p> <p>The location of the site and zoning of adjacent allotments would not facilitate use of the land for agricultural purposes.</p> <p><u>SPP 2/02 Planning and Managing Development Involving Acid Sulfate Soils 1.0</u></p> <p>Not applicable. Not identified as an area containing acid sulphate soils.</p>
(g) if the land to which the application relates is designated land—its designation	As per the Cooloolo Shire Council Planning Scheme, the proposed development does not contain designated land.

ii) Sustainable Planning Act 2009 requirements for assessment managers

Chapter 6, part 5, division 2 of the *Sustainable Planning Act 2009* sets out the assessment process for the assessment manager. Section 313 of the *Sustainable Planning Act 2009* sets out matters the assessment manager must, to the extent relevant to the development, assess the application against and having regard to.

Note: It is essential that this assessment report reflect the consideration that has been given to the policies, codes and requirements set out in the planning instruments created under the provisions of the *Sustainable Planning Act 2009*.

Legislative considerations Assess the application against—	State how considered and any conditions that follow
(a) the State planning regulatory provisions	DERM is a referral agency – hence NA
(b) the regional plan for a designated region, to the extent it is not identified in the planning scheme as being appropriately reflected in the planning scheme	DERM is a referral agency – hence NA
(c) any applicable codes, other than concurrence agency codes the assessment manager does not apply, that are identified as a code for IDAS under SPA or another Act	DERM is a referral agency – hence NA
<p>(d) State planning policies, to the extent the policies are not identified in—</p> <p>(i) any relevant regional plan as being appropriately reflected in the regional plan; or</p> <p>(ii) the planning scheme as being appropriately reflected in the planning scheme</p> <p>Note: There are important State Planning Policies that must be considered and taken into account when assessing an application for an environmentally relevant activity.</p>	DERM is a referral agency – hence NA
<p>(e) any applicable codes in the following instruments—</p> <p>(i) a structure plan;</p> <p>(ii) a master plan;</p> <p>(iii) a temporary local planning instrument;</p> <p>(iv) a preliminary approval to which section 242 of SPA</p>	DERM is a referral agency – hence NA

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Assess the application against—	State how considered and any conditions that follow
<i>applies;</i> <i>(v) a planning scheme</i>	
<i>If the assessment manager is not a local government, the laws that are administered by, and the policies that are reasonably identifiable as policies applied by, the assessment manager and that are relevant to the application, are taken to be applicable codes in addition to the applicable codes mentioned in (c) or (e) above</i>	DERM is a referral agency – hence NA

Legislative considerations Assess the application against—	State how considered and any conditions that follow
<i>(a) the common material²</i>	DERM is a referral agency – hence NA
<i>(b) any development approval for, and any lawful use of, premises the subject of the application or adjacent premises</i>	DERM is a referral agency – hence NA
<i>(c) any referral agency's response for the application</i>	DERM is a referral agency – hence NA
<i>(d) the purposes of any instrument containing an applicable code</i>	DERM is a referral agency – hence NA

² In schedule 3 of SPA **common material**, for a development application, means—

- (a) all the material about the application the assessment manager has received in the first 3 stages of IDAS, including—
- (i) any concurrence agency requirements, advice agency recommendations and contents of submissions that have been accepted by the assessment manager; and
- (ii) any advice or comment about the application received under section 256 of SPA; and
- (b) if a development approval for the development has not lapsed—the approval; and
- (c) an infrastructure agreement applicable to the land the subject of the application.

iii) Regulatory requirements

A regulatory requirement is defined under the EP Act and includes a requirement under an environmental protection policy or a regulation for the administering authority to—

(a) grant or refuse to grant, or follow stated procedures for evaluating, a development application for which the administering authority is the assessment manager or a referral agency; or

(b) impose, change or cancel a condition of a development approval for a chapter 4 activity.

An environmental management decision (EMD) is defined in r. 48 of the EP Reg as a decision under the EP Act for which the administering authority making the decision is required to comply with regulatory requirements.

a. Regulatory requirements for all environmental management decisions (rr. 51-53 EP Reg)

Matters to be considered for EMDs (EP Reg r. 51)

Legislative considerations	State how considered and any conditions that follow
<p>(a) Each of the following under any relevant environmental protection policies—</p> <p>(i) the management hierarchy</p> <p>(ii) environmental values</p> <p>(iii) quality objectives</p> <p>(iv) the management intent</p>	<p>Air Policy</p> <p>Section 7 of the Air policy indicates values for the air environment. Air emissions from the proposed landfill are unlikely to impact on the health and biodiversity of ecosystems; are unlikely to negatively impact human health and wellbeing; are unlikely to affect aesthetics such as appearance of buildings, structures or other property; and there is no agricultural use in the immediate vicinity.</p> <p>Specifically, air emissions may include H₂S from decomposing organics in the landfill. Monitoring of the current landfill has found levels below the lower explosive threshold, except one area due to disturbed covering material. The existing landfill now has an improved leachate recycling and gas venting system, which is proposed for the landfill extension. This system is also likely to assist minimise potential nuisance emissions, according to consultant CTPI 49-Sch4-Na. It is also noted in the application that the exposed face will be minimised; a landfill lid will be used and waste will be covered daily. These measures should further assist to minimise potential for nuisance odour at nuisance sensitive premises.</p> <p>According to the application, it is unlikely the Transfer Station will cause air impacts (such as odour nuisance), because waste will not be stored in this location for periods long enough to generate odour nuisance. Waste will be regularly transferred to recycling streams off site, or disposed to landfill. In addition, the facility will now be generally enclosed, minimising flow through of breeze, and assisting to minimise potential odour nuisance.</p> <p>Noise Policy</p> <p>The application contains a noise report that assesses noise emissions from the proposed landfill AND transfer station (stage 1), and from just the Transfer Station (Stage 2). The noise report did not initially propose development considered sustainable – particularly for the proposed transfer station, as noise emissions were to exceed current noise limits; did not comply with planning for noise control guidelines; and did not include design aspects consistent with best or better practice (ie an open walled facility was originally proposed, and council advised an enclosed facility was not cost effective). In addition, the noise report did not place enough importance on Stage 1 of the Development (landfill and transfer station), stating that the landfill only had limited life and was seemingly dismissed in the supporting noise information. Infact, the landfill could operate as long as 8+ years. It was considered appropriate to ensure noise from Stage 1 be given due consideration. An addendum report was submitted which included design</p>

Environmentally relevant activities assessed under IDAS

Legislative considerations	State how considered and any conditions that follow
	<p>changes for the transfer station, effectively enclosing the transfer station using noise absorbing materials; Metal Collection (definition in the CR) to occur inside the transfer station building; External acoustic barriers in several locations. DERM also introduced times between which no noise from the facility is permitted at nuisance sensitive locations (5pm – 7am Mon – Fri and 4pm – 9am Sat and Sun). The consultant determined using DERM's Planning for noise control guideline that 44dB(A) was an appropriate planning level for the receiving environment, and measures to achieve compliance with that noise level assisted to redesign the transfer station facility.</p> <p>Regarding the landfill, ANE consultants determined a Planning Noise level of 44dB(A) for the receiving environment. Typically, DERM regulates operations to 5dB(A) above BG during daytime hrs, and 3dB(A) above BG during the evening. 47dB(A) is 3dB(A) above the Planning noise level during the day time, and is considered a stricter regulatory approach to noise. 47dB(A) was established as a maximum noise level that the client must comply with, or 3dB(A) above BG, which ever is the higher. This recognises fluctuations in BG noise levels during the day time, but affords the client some level of surety in the event background noise levels periodically fall to a level that could not reasonably be complied with. In addition, the conditions prescribe hours between which no noise is authorised from the landfill - 5pm – 7am Mon – Fri and 3pm – 10am on weekends. Also, given noise emissions from a landfill are likely to be less impulsive than noise from a transfer station, more steady in nature with heavy machinery, more controllable with exhaust mufflers etc, with topography and commercial premises likely to assist noise mitigation between the landfill and the closest nuisance sensitive receptors, noise emissions from the landfill are not anticipated to be a source of nuisance at nuisance sensitive premises.</p> <p>It should be noted that a neighbouring landowner engaged consultants to investigate potential noise impacts at his property. That report, while relevant in many respects, is based solely on unattended monitoring. It is difficult to qualify the monitoring results without any attended noise monitoring. This aspect of the TTM report calls into question the conclusions made by TTM. However, it is noted that Table 4 of the TTM report identifies equipment and measuring distance, and identifies compliance at an undetermined distance. The conclusion is that acoustic barriers will be required. The TTM report did not recognise nor consider more recent commitments from the applicant, that green waste mulching would not be undertaken at the site (condition preventing this activity); waste concrete crushing will not occur at the site; Metal Collection to occur inside the transfer station; and the transfer station will now be fully enclosed. These commitments were not factored into the TTM report, and hence, the conclusions in the TTM report are not consistent with current proposal. Interestingly, conclusions in the TTM report that some activities should be conducted within an enclosed facility designed to attenuate noise emissions is now part of the design and specifically required as conditions in the approval.</p>
(aa) <i>Environmental values declared under the EP Reg</i>	<p>Peter and Paul Gully does not have values specifically declared under the EP Reg. Peter and Paul Gully is a small ephemeral waterway, which has headwaters in a highly disturbed catchment consisting of cleared and grazed land and residential land uses. GRC has recently completed significant earthworks within the subject property involving establishment of a large stormwater detention basin, upstream of the existing landfill, which subsequently diverts clean water around the existing and extended landfill via pipes and vegetated swales. Release quality to Peter and Paul Gully is likely to be significantly improved as a result of this work, effectively taking</p>

Legislative considerations	State how considered and any conditions that follow
	<p>the existing landfill out of the flow path of the gully, and providing opportunity for polishing of stormwater via the detention basin and drainage swales. Importantly, a release of groundwater via the groundwater cut off system under the landfill extension authorised in this development approval will result in an authorised release of groundwater with slightly elevated TDS to Peter and Paul Gully. Given groundwater typically lags behind surface water flows, any rise in groundwater that enters the cutoff system resulting in a discharge to Peter and Paul Gully will occur sometime after any peak surface water flow in Peter and Paul Gully has occurred. Groundwater monitoring and analysis by AGE consultants confirms slightly elevated TDS and chloride levels. TDS is in the range 400 – 1500mg/L, vs QWQG levels in the order of 500 – 1000mg/L. Whilst it is concluded that waters are suitable for livestock, it would appear that groundwater quality is significantly closer to QWQG levels than livestock levels.</p> <p>Additionally, discussion with Greg Robson to interpret likely discharge quantities to Peter and Paul Gully reveal the following:</p> <ul style="list-style-type: none"> - Soils across the landfill extension area range from 10^{-11} to 10^{-12} (lab tested) to fractured rock. Imported clay base across the site has consistent permeability to approximately 10^{-8}. Conservatively, a permeability of 10^{-7} has been used in the calculated potential flow to Peter and Paul Gully. - 600mm of head has been included in the estimate, meaning a head of 600mm of water above the cutoff system. This is unlikely given the cut off system is being installed at or above the highest groundwater level measured, and is unlikely have any head pressure. - An estimated MAXIMUM drain inflow is in the order of 0.85 – 0.9m³ per day. This amount is minor in the scheme of flow in the catchment. For comparison, the detention basin has been designed around a Q100 event. Flow into the detention basin has been designed to receive flow in the order of 24.3m³ per second. The detention basin itself has a capacity of 25,310m³, and the outlet from the detention basin has a max flow in the order of 10.8m³ per second. An occasional flow of less than 1m³ per day from the groundwater cut off system is therefore considered to be minor. Considering the quality of groundwater has been determined to be relatively good, and considering the catchment is moderately impacted, the release of a small quantity of groundwater to Peter and Paul Gully via the cut off system is considered inconsequential. <p>It is also noted that groundwater in the catchment likely expresses to Peter and Paul Gully naturally depending on the standing groundwater level. Whilst this release has no point source within the catchment, it is likely that flows in Peter and Paul Gully experience slightly elevated TDS flows on a periodic basis.</p> <p>Monitoring requirements in the Approval require up and downstream monitoring of surface water and groundwater, with annual interpretive reports detailing any impacts to waters. Reports are to be prepared by a suitably qualified and experienced person.</p>
(b) The characteristics of the contaminants or materials released from carrying out the activity	<p>The application supporting information indicates the existing landfill is unlikely to be discharging contaminants. Soil types in the catchment are reportedly clayey and of low permeability. Considering results of monitoring during previous years (which do not suggest release of contaminants from the existing landfill), the applicant has a moderate level of confidence that contaminants are being contained within the existing landfill cell.</p> <p>Landfill Extension</p> <p>Regarding the landfill extension, contaminants predominantly include leachate, odour, dust and noise.</p>

Environmentally relevant activities assessed under IDAS

Legislative considerations	State how considered and any conditions that follow
	<p>The client has proposed a Geotextile Clay Liner (GCL). The GCL liner is a bentonite layer sandwiched between geotextile fabric, and will have a permeability of not more than 10^{-9} (prescribed as a condition). The GCL sits on a prepared subbase, on the groundwater cutoff system. Above the GCL is a leachate collection system, directing contained leachate to a collection sump for recirculation into the landfill.</p> <p>Leachate from the existing landfill will be allowed to flow to the landfill extension, effectively providing a path of least resistance for leachate from the existing landfill. This is considered a significant position for the operation of the existing unlined landfill, as the path of least resistance for leachate within the existing (unlined) landfill will be toward the lined landfill extension – providing increased assurance that leachate is contained and actively managed. This is also an important consideration given leachate is to be recirculated back into the existing landfill.</p> <p>Whilst this aspect of the proposal does present some level of risk, the design is proposed to take advantage of the capability of the existing landfill to manage and treat leachate in the immediate and long term.</p> <p>The supporting information indicates that seepage that may occur through the GCL will be extremely slow. It is claimed that the significant charge sites on particles within the clay liner will also provide significant detention of contaminants if they do move through the liner.</p> <p>The conditions in the CR provide both prescriptive and outcome based requirements to prevent releases to surface and groundwater, and to provide monitoring for early detection of contaminants.</p> <p>Air emissions are regulated using conditions to prevent nuisance. In addition, landfill gas monitoring is required, with limits imposed around lower explosive limits. Conditions in the approval require frequent covering of waste at the landfill. The nature of the Transfer Station, whereby waste will not remain insitu for long periods of time, means the transfer station is unlikely to be a source of odour. Interestingly, now the transfer station is to be an enclosed facility, containment of odour is likely to increase, resulting in a decrease in potential odour at nuisance sensitive premises. Also of note – a neighbouring landowner engaged an external consultant to undertake an odour assessment. That report concluded that odour from the development is unlikely to cause odour nuisance at the neighbouring property, and that measures would be available to prevent odour nuisance should they occur.</p> <p>As discussed at the beginning of this AR, noise emissions from the landfill have been carefully regulated, with conditions that strive to afford a reasonable scope for the operation of the landfill (noting landfilling is an existing activity at the site), whilst also striving to protect noise values of the receiving environment.</p> <p>Regarding the Transfer Station, contaminants predominantly include waste, odour and noise.</p> <p>Waste disposed to the site must only occur in compliance with the conditions in the landfill schedules of the CR.</p> <p>Odour can be actively managed by delivering waste requiring disposal to the</p>

Legislative considerations	State how considered and any conditions that follow
	<p>landfill for disposal into the landfill promptly, and by ensuring any putrescible waste not able to be disposed to landfill (the landfill has shorter hours of operation due to its potentially higher noise level) must be stored in an enclosed container or other device that prevents (among other things) odour nuisance. Given the transfer station will be an enclosed facility, odour containment within the facility is likely to assist minimise odour at nuisance sensitive premises.</p> <p>Noise emissions from the transfer station are discussed in detail elsewhere in this AR. The CR contains prescriptive conditions that reinforce design construction and operational commitments from the applicant submitted during the assessment and decision making period. The modelling exercise with all design and operational commitments implemented suggests compliance with 44dB(A) at nuisance sensitive premises. Hours of operation prevent noise emissions outside the hours of 7am – 5pm Monday to Friday and 9am to 4pm on weekends.</p>
<p>(c) <i>The nature and management of, including the use and availability of technology relating to, the processes being, or to be, used in carrying out the activity</i></p>	<p>Landfill design has improved since the existing landfill was developed. The proposal to extend the landfill using improved leachate collection, and lining and isolation from underlying groundwater, and connection of the existing leachate system to the landfill extension is considered a positive way to improve the performance of the existing landfill and assist in dealing with impacts from the landfill following closure. The proposed extension also extends the life of the existing site.</p> <p>Leachate recirculation minimises the need to have leachate dams on the property, which also assists to minimise potential overtopping during wet weather events and pumping of leachate to sewer to maintain freeboard. Containing and recirculating leachate also assists to improve leachate quality and decomposition within the landfill. It would appear the benefits of leachate recirculation outweigh the potential risks associated with recirculation back to the unlined facility. Groundwater and surface water monitoring requirements provide an early detection system. Removal of leachate to a sewer is an option available to deal with excess leachate.</p> <p>A stormwater detention pond is provided for sediment management only. Conditions prevent the use of this pond for leachate collection.</p> <p>The transfer station is to be enclosed and lined with noise absorbing material to upper walls and ceiling. As most transfer stations are open facilities, the measures proposed for this transfer station demonstrate improved practice for noise mitigation.</p> <p>Discharges to stormwater are not authorised by the conditions in the CR.</p>
<p>(d) <i>The impact of the release of contaminants or materials from carrying out the activity on the receiving environment, including the cumulative impact of the release with other known releases of contaminants, materials or wastes</i></p>	<p>Landfill</p> <p>Odour from the landfill can be appropriately managed by ensuring waste is regularly covered; the active face is minimised and covered with a landfill lid; and any leachate recirculation wells into the landfill are vented into filters (which may include biofilters); and any putrescible waste received at the landfill after the landfill has ceased to operate for the day must be stored in enclosed bins. These measures are likely to minimise odour impacts from the landfill.</p> <p>Dust from the landfill can be appropriately managed, by minimising vehicle access to unsealed areas of the landfill; by using dust suppressants including water; by establishing finalised landforms around the perimeter as soon as possible; and by using mulch.</p> <p>Wind blown litter from the landfill can be appropriately managed by covering waste regularly; using a landfill lid to cover the active face; establishing litter screens and fencing; and actively managing bird access to the landfill.</p>

Environmentally relevant activities assessed under IDAS

Legislative considerations	State how considered and any conditions that follow
	<p>Leachate from the landfill can be appropriately managed by installing a suitable containment barrier and collection system; recycling leachate to the landfill in a sustainable manner (ie with a management plan); and by regularly sampling leachate quality to determine the level of biological activity within the landfill.</p> <p>Stormwater runoff from the landfill can be appropriately managed by ensuring waste is appropriately covered (ie day cover etc); diverting clean water away from exposed waste; installing a suitably designed stormwater collection facility to detain waters from disturbed areas.</p> <p>Transfer Station:</p> <p>Odour can be suitably managed by regularly removing waste from the TS for recycling or disposal into the landfill. Enclosing the TS may also assist mitigate odour nuisance.</p> <p>Dust can be suitably managed by paving access roads.</p> <p>Wind blown litter can be minimised by ensuring disposal bins have lids that are closed; designing the facility to prevent wind thoroughfare; installing waste fencing and litter fences; ensuring recycling and disposal bins are not overfilled; and patrons are suitably educated on waste placement.</p> <p>Following amendments to the design, the applicant has demonstrate noise emissions from the TS can be suitably managed. Noise modelling by an external consultant to council identifies that, with the additional noise management measures, noise emissions from the transfer station can comply with noise levels determined using DERM's Planning for Noise Control guidelines. Predominantly, materials to be used in the construction of the TS have the capability to absorb noise; and openings will be minimised to contain noise. Given noise emissions from the TS have the potential to impact on the amenity of the receiving environment, the measures now proposed by council are considered necessary to minimise noise impacts. Many of the commitments around noise management have been incorporated as conditions in the CR, along with the requirement for the facility to be certified by a suitably qualified noise expert to verify all noise management measures have been implemented before the TS facility is commissioned.</p> <p>It is also appropriate to highlight that an existing landfill operates on the site in question, and has done since the early 1980's. Ongoing use of the site will not introduce a totally new impact on the receiving environment. In fact, it is anticipated that the measures proposed in the application, and the increased regulatory conditions of approval will assist to reduce potential impacts on the values of the receiving environment.</p>
(e) <i>The characteristics of the receiving environment and the potential impact on it from carrying out the activity;</i>	<p>The receiving environment is predominantly residential or undeveloped open space. Residential development has occurred on several sides of the existing landfill. The surrounding land use is sensitive to potential emissions from the proposed TS and landfill.</p> <p>It is anticipated the measures proposed in the application, and conditions imposed in the CR will improve the performance of the site, effectively reducing existing and potential impacts on the receiving environment.</p>
(f) <i>For each affected person³ for the activity—the order of occupancy or use between the person carrying out the activity and the affected person</i>	<p>The existing landfill has been operating at the site for an extended period of time, exceeding the term of most residence in new estates nearby the facility. Of note, a landowner immediately north of the site has raised objection to the proposed landfill extension and transfer station. Considering the matters raised by consultants engaged by that landowner, and amendments to the design of the transfer station by the applicant during the assessment period (none of which represents a significant change to the intent of the</p>

³ **Affected person**, for an activity, means a person affected, or who may be affected, by the release of a contaminant or waste from carrying out the activity.

Legislative considerations	State how considered and any conditions that follow
	application), it is considered the proposal and conditions of approval will assist to respond to the concerns raised by that landowner, while at the same time assist to protect the values of the receiving environment.
<i>(g) The remaining capacity of the receiving environment to accept contaminants or wastes released from future activities while protecting the environmental values</i>	<p>Given the existing landfill has been in operation for an extended period of time, the receiving environment is already impacted (to some extent) by emissions from the existing landfill. Given the proposed landfill extension incorporates substantially better design elements, it is likely the landfill extension will increase the capacity of the receiving environment, by decreasing impacts</p> <p>Noise emissions from the landfill extension and TS have the potential to impact the values of the receiving environment. To manage potential impacts, the applicant has proposed measures to minimise noise emissions, and conditions in the CR effectively regulate operating hours and exclude certain activities (such as green waste mulching and concrete crushing) to further protect the receiving noise environment. More detail about noise emissions are provided elsewhere in this AR.</p>
<i>(h) The quantity and type of greenhouse gases released, and the measures proposed to demonstrate the release is minimised using best practice methods that include strategies for continuous improvement</i>	<p>Green house gas produced by landfills is predominantly methane. The client does not at this stage propose greenhouse gas mitigation or flaring measures. Rather, venting will be managed using biofilters on recirculation bores etc. Recirculating leachate into the landfill will be of assistance to support decomposition of material in the landfill. Whilst it is possible this practice could result in release of greenhouse gases, the practice of actively composting putrescible waste within the landfill cell while the landfill is actively being managed and operated is seen as a positive rather than a negative as management (including monitoring) is likely to be more active while the site is operational than it is likely to be after closure when green house gases would otherwise be produced.</p>

Conditions to be considered for EMDs (EP Reg r. 52)

Legislative considerations	State how considered and any conditions that follow
<i>(a) Implementing a system for managing risks to the environment</i>	Site management plan condition in the CR. Design of the landfill and transfer station aim to minimise impacts to receiving environment – many of the design measures have been prescriptively included as conditions in the CR. Also, conditions on the CR require monitoring, to provide early detection of impacts to the receiving environment.
<i>(b) Implementing measures for avoiding or minimising the release of contaminants or waste</i>	Discussed elsewhere in this assessment report
<i>(c) Ensuring an adequate distance between any sensitive receptors and the relevant site for the activity to which the decision relates (For example—a condition requiring riparian buffers, noise buffers or buffers for protecting endangered regional ecosystems)</i>	Both the landfill and the TS are within close proximity to sensitive receptors. DERM's landfill citing and design guideline recommends separation distances of 500m for putrescible landfills. The proposed landfill extension will involve landfilling within approximately 200m of residential dwellings. The TS will be located a similar distance. A strip of land between the site and the residential dwellings is proposed as a buffer, to include commercial or light industrial land use. Construction of dwellings in this strip of land is (according to the applicant) likely to provide additional mitigation of impacts from the proposed activity to sensitive receptors.

Environmentally relevant activities assessed under IDAS

Legislative considerations	State how considered and any conditions that follow
	Importantly, although the landfill extension is quite exposed to passing traffic, it is not highly visible from residential dwellings. The proposed TS is however, likely to be within direct line of sight of residential dwellings. Enclosing the facility and erecting acoustic barriers will assist to provide a visual barrier to the facility as well as attenuating noise.
<i>(d) Limiting or reducing the size of the initial mixing zone or attenuation zone⁴, if any, that may be affected by the release of contaminants</i>	Contaminants are not authorised for release to waters, other than the release of small volumes of groundwater.
<i>(e) Treating contaminants before they are released</i>	Contaminants are not authorised for release to waters. It is anticipated that odour emissions will be managed by measures discussed elsewhere. Noise attenuation measures discussed elsewhere will assist to contain noise emissions within the Transfer Station.
<i>(f) Restricting the type, quality, quantity, concentration or characteristics of contaminants that can be released</i>	Measures proposed in the application, and specifically regulated in the CR assist to restrict the quantity, quality and concentration of contaminants. Specifically, - contaminant release to waters is not authorised. Air releases are not authorised to cause a nuisance, and gas monitoring is required. Noise emissions are restricted in hours and quantity, and actively managed using abatement and absorption methods, as discussed elsewhere in this AR.
<i>(g) The way in which contaminants may be released (for example—a condition restricting the release of a contaminant at a particular temperature, velocity or rate or during particular meteorological conditions or water flows or a condition restricting the release of a contaminant to a depth below the level of surface waters)</i>	Noise emissions are authorised during prescribed hours, and to maximum levels. Explosive gases are authorised to prescribed levels, with proactive monitoring required. Releases to surface water are authorised from disturbed areas only (existing and extended landfill), where certain requirements are met (different requirements for existing and extended landfill). Disturbed areas is defined in the definitions, and specifically excludes exposed waste areas and active face areas. Contaminants are not otherwise authorised for release to waters.
<i>(h) Ensuring a minimum degree of dispersion happens when a contaminant is released (for example—a condition requiring the use of a diffuser for releasing a contaminant)</i>	Any odour that may be emitted via the leachate recirculation wells is to be directed through a biofilter. This measure has not been prescriptively conditioned, however this is the current onsite management strategy. Putrescible waste is not to be stored when the landfill is not otherwise operating, unless its placed in enclosed bins. Other wastes and contaminants are not authorised for release from the site.
<i>(i) Protecting environmental values, and meeting</i>	As discussed elsewhere in this AR, environmental

⁴ **Attenuation zone** means the area around a release of contaminants to groundwater in which the concentration of the contaminants in the release is reduced to ambient levels through physico-chemical and microbiological processes.

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations	State how considered and any conditions that follow
<i>quality objectives, under relevant environmental protection policies</i>	<p>values of the receiving environment have been considered.</p> <p>Contaminants are not authorised for release to surface or ground waters.</p> <p>Noise emissions have been given close consideration. It is anticipated the resulting conditions and authorised noise levels will assist to protect amenity to the receiving environment. Consideration was given to monitoring results obtained by GRC consultants ANE, as well as monitoring results generated by Mr Andrews consultants TTM. The resulting noise limits and prescriptive noise conditions will assist to ensure commitments made in the application are implemented, and provide multiple compliance options for the Department in the event of a noise complaint.</p> <p>Importantly, in prescribing noise limits, the Planning for Noise Control Guideline was utilised and compliance with the Environmental Protection Noise policy – Acoustic Quality objectives have not been exceeded. In fact, the required compliance limits are well below the Acoustic Quality objective.</p>
<i>(j) Recycling, storing, transferring, or disposing of waste in a particular way</i>	<p>Waste received at the Transfer Station, requiring disposal to landfill, is to be relocated to the landfill as soon as possible. Other waste to be diverted from landfilling is to be removed from the site as soon as possible. The transfer station is not to be used for storage of waste for an extended period of time. This is a commitment in the supporting information.</p>
<i>(k) Rehabilitating land to achieve particular outcomes</i>	<p>The landfill will be developed to achieve a stable final landform. A Site development plan and site closure plan is required in conditions of the approval. Capping, cover material, vegetation etc is to be determined prior to closure of the site. A final landfill design plan is required at least 12 months before landfill at the site is completed.</p>
<i>(l) Measures for the ongoing protection of environmental values that are, or may be, adversely affected by the activity.</i>	<p>Ambient monitoring is required for surface and groundwater, and landfill gas detection.</p> <p>Noise monitoring is required in the event of a complaint that cannot otherwise be resolved through negotiation.</p>

R

Environmentally relevant activities assessed under IDAS

Matters to be considered for decisions imposing monitoring conditions⁵ (EP Reg r. 53)

Legislative considerations	Details of how considered and any conditions
(a) <i>The potential impact on the receiving environment of the activity to which the decision relates and the release of the contaminant</i>	<p>Groundwater from the cut off system is authorised for release to Peter and Paul Gully, and surface water monitoring is required for upstream and downstream in Peter and Paul Gully, as well as at the sediment pond overflow location and the diversion around the landfill. Annual interpretive reports are required with interpretation, to determine impacts from the landfill on receiving waters.</p> <p>Importantly, noise emissions from the landfill extension and the transfer station have potential to impact the receiving environment. Discussed elsewhere in this AR are details about mitigation measures and conditions of approval to regulate the activity, specifically intended to minimise noise emissions to protect the receiving noise environment. Monitoring for noise emissions is required in the event of a reasonable complaint which cannot otherwise be resolved through negotiation.</p>
(b) <i>The characteristics of the contaminant</i>	<p>Characteristics of leachate could include elevated temperature, high nutrients, low pH, elevated metals; elevated electrical conductivity. Monitoring for surface and groundwater requires a suite of parameters be analysed on a periodic basis to determine potential impacts. Annual interpretive reports are required. Characteristics of landfill gases are odorous and explosive. Monitoring of gases for their explosive potential is required in the CR, using standard conditions, regulating explosive limits and heights above ground level, and grid widths. Characteristics of noise are relatively steady noises such as vehicles entering and leaving the site and heavy machinery pushing compacting and covering waste, along with impulsive noises such as bangs and crashes from waste disposal. Given the types of noises this site could emit, and considering current noise standards and preferences for noise measurement in the industry, LAeq has been selected as the noise characteristic to be measured against.</p>
(c) <i>The potential for a control measure to fail and the effect of a failure of a control measure on the receiving environment</i>	<p>Should the liner fail, leachate could release beyond containment system. The risk would be that leachate could contaminate groundwater. The groundwater cut off system, immediately below the liner system, must provide a monitoring point for contaminant monitoring. This cutoff system will provide an early warning system for any issues that may arise.</p> <p>In the event the liner system failed, any leachate in the landfill would need to be actively pumped into a storage vessel for disposal offsite. GRC would need to consult with DERM regarding such a matter, as the conditions prevent release to surface or groundwaters. The "Landfill as a Bioreactor management plan" condition requires the client to assess the capability of offsite disposal or treatment facility that may receive leachate from the site, which must take into consideration the capability of that external facility and its environmental impacts (notably, a GRC Sewerage Treatment Plant could be an offsite facility where leachate could be sent for disposal / treatment. STP's are not typically designed to treat landfill leachate, and the GRC STP's release to the Mary River. Hence, the Landfill as a Bioreactor conditions require the client to determine the suitability of such a facility to receive such waste.</p> <p>It should be noted that GCL is a recognised lining product across industry. Staff</p>

⁵ **Monitoring condition**, about the release of contaminants from an activity on the receiving environment, means a condition about any of the following matters—

- (a) monitoring the quantity, quality, characteristics, timing and variability of the release;
- (b) monitoring indicators of the effective operation of control measures;
- (c) monitoring the characteristics of the receiving environment;
- (d) assessing the effectiveness of remedial or rehabilitation measures;
- (e) monitoring the impact of the release on the values, objectives and biota in the receiving environment;
- (f) analysing monitoring data against objectives and standards including, for example, by predictive modelling;
- (g) reporting the results of monitoring in a stated form and timeframe;
- (h) reporting on the time and way in which the release is made to the receiving environment.

R

Environmentally relevant activities assessed under IDAS

Legislative considerations	Details of how considered and any conditions
	<p>in the Wide Bay office experienced in the use of GCL recognise the capability of such a lining system for contaminated land applications. The consultant has also demonstrated a clear awareness of the preparation needed to ensure a GCL, once installed, is effective and durable. Conditions in the approval require the GCL be installed under the supervision of a suitably qualified and experienced external person, and that the work be certified before being commissioned. The consultant currently retained by council has demonstrated experience in the installation of GCL previously.</p> <p>In addition, groundwater monitoring bores and surface monitoring requirements provide early detection of potential impacts.</p> <p>Noise attenuation measures for the landfill are not specifically prescribed in the CR. In the event the client is not able to resolve a complaint, and is not otherwise able to comply with 47dB(A) at a nuisance sensitive premises, then the client will need to explore measures for noise reduction at the landfill, including construction of noise barriers (possibly using waste), broadband reversing beepers, aftermarket mufflers on heavy machinery, improved access roads etc.</p> <p>It is unlikely noise attenuation measures for the transfer station can "fail", unless the measures are ineffective when the transfer station is commissioned. Measures proposed to control noise are generally mechanical and physical in nature (such as constructing walls out of materials with certain densities and noise absorbing capabilities etc. A suitably qualified and experienced independent person is required to verify that the measures committed to and regulated are installed before the facility is commissioned.</p> <p>It is possible that those materials could be damaged during the life of the facility, and may require maintenance. Conditions in the approval simply require that those measures are installed. If they are damaged and removed, the client will not comply with the conditions in the approval.</p>
(d) The protocols relevant to monitoring the release of the contaminant	<p>Monitoring surface water and groundwater, and landfill gas is required on a periodic basis, as conditioned in the CR.</p> <p>Water quality is to be undertaken in accordance with the methods prescribed in DERM's Water Quality sampling manual.</p> <p>Noise measurement and reporting must comply with DERM's Noise Measurement Manual.</p> <p>Dust monitoring to be undertaken in accordance with DERM's Air Quality Sampling Manual.</p>
(e) Whether the monitoring should be continuous or intermittent	<p>Surface and groundwater monitoring will be undertaken quarterly.</p> <p>Gas monitoring will be undertaken annually.</p> <p>Noise monitoring will be undertaken in the event of a reasonable complaint that cannot otherwise be resolved through negotiation.</p> <p>Dust monitoring will be undertaken in the event of a reasonable complaint.</p>

b. Additional regulatory requirements for particular EMDs (EP Reg rr. 55-64)

Indicate which of the list of matters in Part A applies for this application. Provide further information only for the applicable matters in Part B. The matters that do not apply can be deleted in Part B.

Part A – Identifying whether an additional regulatory requirement will apply

Considerations An activity that involves or may involve:	State how considered and provide additional detail in Part B where relevant
---	---

R

Environmentally relevant activities assessed under IDAS

The release of water or waste to land (relevant land) (EP Reg r. 55)	Waste will be released to land as part of the landfill operation. As described elsewhere, a liner will be installed that is generally consistent with the DERM landfill guideline. The liner will provide a membrane to contain contaminants within the facility. Leachate management has been discussed elsewhere in this AR.
The release of water, other than stormwater, to surface water (EP Reg r. 56)	Contaminants are not authorised for release to waters. Clean stormwater will be diverted away from contaminants, and runoff from disturbed areas (not exposed waste) will be directed to a stormwater pond prior to release. Whilst release limits have not been imposed, monitoring requirements for up and downstream, and at the detention pond and at the diversion drain are required, as are annual interpretive reports detailing any impacts to receiving waters. Importantly, release limits were not prescribed given the fluctuating nature of surface water flows in an ephemeral gully which is otherwise impacted. It was considered appropriate to require a high level of monitoring of surface and groundwater parameters, and ambient and potentially affected locations, to determine impacts from the facility. Importantly, leachate is not authorised for release to surface or groundwater.
The release of stormwater to the receiving environment (EP Reg r. 57)	Clean stormwater can be released to the receiving environment.
The release of water or waste to a referable wetland or a significant coastal wetland for treatment (EP Reg r. 58 – potential refusal)	The receiving environment (Peter and Paul Gully) is not a referable wetland, or significant coastal wetland. Regardless, contaminants are not authorised for release to the receiving environment.
Berthing, docking or mooring a boat (EP Reg r. 59)	N/A
Storing or moving bulk material (EP Reg r. 60). Examples of bulk material—alumina, cement, coal, grain, metaliferous ores, quarried materials, woodchips.	N/A
Disturbance of acid sulfate soil (EP Reg r.61)	ASS has not been identified as a concern with this application. The site is unlikely to be within 5m AHD, and is hence not within a risk area.
Disturbance of acid-producing rock (EP Reg r. 62). Example of an activity involving disturbance of acid-producing rock—tailings from processing acid-producing rock in a mining operation.	Material has been excavated from the proposed landfill extension to increase available space for waste disposal. The Department is not aware that acid producing rock was disturbed during any excavation. Monitoring for pH is required in all ambient water monitoring requirements (surface and groundwater).
The release of waste directly to groundwater (the receiving groundwater) (EP Reg r. 63 – potential refusal). Example of direct release of waste to groundwater—	Waste is not authorised for release to groundwater. Liner requirements are discussed elsewhere in this AR.

R

an activity involving the release of contaminated water to groundwater through a well, deep-well injection or a bore.	
The release of contaminants indirectly to groundwater (EP Reg r. 64). Example of indirect release of waste to groundwater—storage of contaminated water in a pond allowing infiltration of contaminated water to groundwater.	Contaminants are not authorised for release to groundwater. Measures to contain contaminants are discussed elsewhere in this AR.

Part B – Assessing relevant additional regulatory requirements

Release of water or waste to land (EP Reg r. 55)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) <i>The topography, including the flooding potential of the relevant land</i>	<p>A landfill currently operates at the subject site. The existing landfill is nearing capacity, and council urgently requires expanded waste disposal area at the subject site. The surrounding landscape is well known for its undulating characteristics. Information submitted in support of the landfill proposal indicates the floor of the landfill will be above the Q100 flood level, but within 100m of the Q100 flood level.</p> <p>The applicant has explained that in order to provide for improved leachate collection from the existing landfill, the floor of the landfill extension needs to be below the existing landfill to facilitate downgradient flows. Therefore, raising the floor height of the extension would not allow integrated leachate management.</p> <p>Connection of the leachate collection system from the existing unlined landfill into the lined landfill extension is viewed as achieving an improved environmental outcome, that could not otherwise be achieved if the leachate systems remained disconnected.</p> <p>The floor of the stormwater detention pond is below the Q100 flood level, however a bund around the lower perimeter of the landfill extension (including the stormwater detention pond) will exclude flood waters up to and exceeding the Q100 level.</p> <p>A groundwater cut off system will provide groundwater relief under the landfill in the event groundwater rises to a level that intercepts the cut off system. Hence, the groundwater cut off system provides protection for the liner during early stages of landfill (before there is sufficient weight to hold the liner in place), and future insurance to manage groundwater fluctuations. The cut off system also provides an early detection system under the liner, should the liner system fail.</p> <p>It is noted in the application, that groundwater has been measured to be within 1m of the landfill liner. When considering the leachate collection system would exist on top of the liner, waste could be within 1.5m of underlying groundwater if it intercepted the cut off system. Whilst this situation is not consistent with DERM's landfill siting and design guideline (which recommends a 2m attenuation zone), the practice has been</p>

R

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
	<p>implemented successfully previously at other landfill sites. Advice from DERM colleague Murray Allan confirms installation of a cut off system is an appropriate measure where landfilling will occur close to groundwater. Advice from Murray Allan is that some other cut off systems require active pumping (like a dewatering system) to create a cone of depression. This is not the case with this landfill extension. The cut off system will passively drain to Peter and Paul Gully and small quantities from time to time, as discussed elsewhere in this AR.</p>
<i>(b) The climatic conditions affecting the relevant land</i>	<p>The site is located in Gympie. Gympie experiences similar weather cycles to SE Queensland, with summer storms and wet weather periods, and generally dry winter months. Climatic conditions are not sufficiently extreme to warrant specific consideration. Q100 flood levels are discussed elsewhere in this AR.</p>
<i>(c) The available land on which the water or waste can be released</i>	<p>The land on which waste will be released currently experienced waste disposal (the existing landfill). The landfill extension will include design aspects that significantly improve environmental performance (lined, groundwater cut off, leachate collection), and when tied into the existing landfill, will likely significantly reduce the environmental risks associated with the existing landfill – notably because the existing landfill will drain to the lined landfill extension.</p> <p>Leachate will remain within the landfill (as opposed to an external storage facility). The design prevents the need for additional leachate storage dams, and hence reduces wet weather risks associated with overtopping dams and ensuring sufficient freeboard. Containing leachate within the landfill cell (and recirculating it) provides an opportunity to improve leachate quality and minimises exposure risks. A management plan is required to ensure recirculation of leachate provides positive outcomes (called a Bioreactor management plan), to be submitted to the administering authority within 6 months of the effective date of the Development Approval.</p> <p>Imperative to any leachate design, is that measures are actively implemented to minimise potential for leachate. Conditions in the CR seek to minimise leachate generation to achieve this outcome.</p>
<i>(d) The storage of the water or waste in wet weather</i>	<p>The transfer station will be roofed, and waste will not be exposed to wet weather (other than green waste). As discussed above, waste in the landfill needs to be covered and infiltration of clean water prevented or minimised. Putrescible waste received at the landfill or the transfer station must not be stored overnight unless it is stored in a fully enclosed container or other device that prevents odour nuisance, and which prevents contact with rainfall and stormwater runoff.</p>
<i>(e) The way in which the water or waste will be released to the relevant land</i>	<p>Leachate will be recirculated to the landfill cell.</p> <p>The development approval contains a number of conditions that regulate what type of waste is authorised to be released to the land, and how that activity must be managed to minimise potential impacts to the receiving environment.</p>
<i>(f) The need to protect soil and plants on the relevant land from damage</i>	<p>Predominantly, the site is currently void of vegetation, except grassy swales and grassy vegetated batters. The existing landfill operating at the site has significantly disturbed and modified the soil and vegetation on the subject site.</p> <p>As land filling is a Notifiable activity under the EPA Act, the land in question is listed on the Environmental Management Register. It acknowledged that</p>

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
	soil on the land in question may be impacted by the existing and proposed activity. The EMR provisions assist to regulate the movement of soils from the site.
(g) <i>The potential for infiltration of the water or waste to the groundwater</i>	Management of leachate and liner systems is discussed elsewhere in this AR.
(h) <i>The potential for generation of aerosols or odours from the water or waste</i>	Management of odours and conditions to assist protect the values of the receiving environment are discussed elsewhere in this AR.
(i) <i>The impact of any transfer or run-off of contaminants from the relevant land to surface waters</i>	Stormwater management is discussed elsewhere in his AR.
(j) <i>The ongoing availability of the land for the release of the water or waste</i>	<p>Leachate will be recirculated to the landfill. The design proposes to utilise leachate recirculation to increase decomposition within the landfill. A management plan for operation of the land fill as a 'bioreactor' are required to assist the ongoing management of the leachate recirculation process. Importantly, the availability of land for landfilling is becoming scarce. Communities do not generally accept new landfills, particularly nearby residents who were not previously exposed to impacts (actual or perceived) from such facilities. Hence, maximising the use of existing landfills is generally supported where impacts can be appropriately managed.</p> <p>Despite the above, the site that is the subject of this assessment has a limited life for ongoing waste disposal – possibly in the order of 8+ years, depending on the rate of waste disposal and recycling opportunities).</p>

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) <i>Developing and implementing a land release management plan⁶ for the relevant area that protects the environmental values affected, or that may be affected, by the activity</i>	<p>Release of leachate to the landfill is to be managed in accordance with a "Landfill as a Bioreactor" management Plan, to be submitted within 6 months of the effective date of the Development approval. This includes monitoring requirements, and management procedures.</p> <p>Management of waste on the site to protect environmental values is discussed elsewhere.</p>

⁶ **Land release management plan**, for the relevant area, means a plan that achieves the following outcomes for the area—

- (a) the efficient application of water or waste using best practice methods;
- (b) control of sodicity in the soil;
- (c) minimal degradation of soil structure;
- (d) control of the build-up, from water, waste or other sources, of nutrients and contaminants in the soil and subsoil;
- (e) prevention of subterranean flows of contaminants to waters;
- (f) prevention of impact of infiltration on groundwater resources;
- (g) prevention of run-off by controlling the rate of application of water or waste, and by using structures, including, for example, tailwater dams;
- (h) prevention of surface ponding;
- (i) prevention of spraydrift or overspray from the relevant area;
- (j) prevention of damage to native vegetation;

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(b) <i>The way in which, or rate at which, the water or waste may be released</i>	Water release includes clean surface water runoff from rehabilitated areas, and from a stormwater sediment pond. Neither release results in significant storage of water, and is unlikely to significantly increase release quantities to surface water. The approved activity does not require water be imported to the site, nor rely on water storage for process. Hence, water released from the site will generally only be in proportion to the quantity of water that falls on the site. The only potential increase in water released from the site is during periods when groundwater intercepts the groundwater cut off system. As discussed elsewhere in this AR, that quantity (based on excessively conservative estimate inputs) is only a minor quantity, and insignificant when considering the potential flows in the catchment.
(c) <i>Releasing the water or waste in a way that minimises infiltration to groundwater</i>	Discussed elsewhere in this AR
(d) <i>If the water or waste is to be transferred to another entity – the circumstances under which the transfer may occur</i>	NA
(e) <i>Releasing the water to a bio-retention system, including for example, a constructed wetland, for the removal of nutrients from the water</i>	NA

Release of water other than stormwater to surface water (EP Reg r. 56)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) <i>Any available toxicity data relevant to the release and the receiving environment;</i>	Release of contaminants not authorised
(b) <i>If there is an initial mixing zone— (i) whether there is any practicable alternative that would reduce or eliminate the initial mixing zone; and (ii) whether the size of the initial mixing zone is likely to adversely affect an environmental value or the ecological condition of the receiving environment, including, for example, a watercourse or wetland; and (iii) whether concentrations of contaminants in the initial mixing zone are acutely toxic to the biota</i>	Release of contaminants not authorised

(k) reporting the results of monitoring, and an assessment of the impact on the groundwater in the relevant area of the release of the water or waste.

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) Releasing the water to tidal waters only during particular tidal conditions, including, for example, phases of the tide	N/A
(b) Releasing the water to non-tidal waters only if the rate of flow of the surface water is greater than a particular level	N/A

Release of stormwater to the receiving environment (EP Reg r. 57)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) The topography of, and climatic conditions affecting, the receiving environment;	Discussed elsewhere in this AR
(b) If the activity involves exposing or disturbing soil—the soil type, its characteristics and the way it is managed;	Although soil will be disturbed, it will be covered with a liner and subsequently covered with waste. It is important that soil used for day cover and final capping be fit for purpose (including dispersive properties). A condition to be imposed on the CR for suitable soils for day and final cover
(c) If the activity involves the storage of materials or wastes that are exposed to rainfall or stormwater run-off—the characteristics and containment of the material or waste;	Wastes are to be covered as quickly as possible to prevent infiltration of incidental rainfall and the area of exposed waste is to be minimised. The Transfer Station is roofed, with all bunded areas (excluding green waste storage area) to be roofed also.

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) diverting upstream stormwater run-off away from the area contaminated or disturbed by the activity (the affected area);	<p>The site is approximately mid catchment. Flow from several catchments converge at the site. A detention basin installed at the site to divert flows around the existing landfill and landfill extension has a capacity of 25,310m³, with design inflow during a 100year event in the order of 24.3m³ per second.</p> <p>This diversion device will assist to significantly improve clean water management at the site. In addition to providing a diversion of clean water, the detention basin will also provide a level of sediment management within the catchment, as entrained sediment upcatchment may settle in the detention basin (pending flow rates). This will provide improved water quality in the catchment downstream.</p> <p>A pipe under the existing landfill, which previously carried clean inflow water straight underneath the existing landfill, is now capped and sealed off from the detention basin and now operates as a leachate collection device under the existing landfill. Whilst directing clean water under a landfill is not considered good practice, the existence of the pipe under the old landfill now provides an excellent leachate collection opportunity, and when connected to the landfill extension, will significantly improve leachate management.</p> <p>Council advises the new cleanwater diversion system worked effectively during heavy rainfall encountered in the region in late 2010 / early 2011.</p>

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
<p><i>(b) minimising the size of the affected area;</i></p>	<p>By extending the existing landfill on the same site, the client effectively minimises the area of land affected by land filling, in comparison with starting a new landfill. The management strategies proposed provide opportunity to improve environmental performance and management of contaminants within a site that is already affected by landfilling operations. From this perspective, it is appropriate to support an application to prolong waste management on a site already impacted by waste disposal for as long as possible – particularly where the extended operations assist to improve environmental performance and decrease the risks associated with an existing activity.</p> <p>Given the footprint of the landfill extension is already disturbed, and given the existing landfill does not appear to have caused any apparent offsite impacts to waters, expanding the activity within the site (despite nearby sensitive receptors) seems a reasonable proposal.</p> <p>Measures discussed elsewhere in this AR all assist to improve the performance of the existing activity, and prolong the use of a site already impacted by the proposed activity.</p>
<p><i>(c) covering, paving, roofing and cleaning the affected area;</i></p>	<p>The transfer station will be predominantly roofed.</p>
<p><i>(d) cleaning the affected area without using water;</i></p>	<p>Conditions require containment systems.</p>
<p><i>(e) analysing and managing soil;</i></p>	<p>Considered in relation to permeability and the prevention of effects on groundwater. Permeabilities are prescribed throughout the CR where necessary, to ensure water shedding is maximised, and infiltration minimised.</p>
<p><i>(f) installing and maintaining appropriate control measures; Examples of control measures—bio-retention system, buffers for improving waste water quality, first flush stormwater diversion systems, oil separators, rubbish traps, sediment fences, sediment traps (for example—bio-retention system, buffers for improving waste water quality, first flush stormwater diversion systems, oil separators, rubbish traps, sediment fences, sediment traps)</i></p>	<p>Discussed elsewhere in this AR</p>

R

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(g) treating the affected area (for example—mulching, revegetating, using surface covers or soil agglomerants)	Progressive rehabilitation of disturbed areas is required as a component of the required site development plan. Site rehabilitation is also required as a component of the required site closure plan. Direct release of stormwater is only authorised from disturbed areas (defined) and from rehabilitated areas. It is in the clients best interests to rehabilitate areas to minimise detention of contaminated water on the site.

Release of water or waste to particular wetlands⁷ for treatment (EP Reg r. 58)

Legislative considerations The application must be refused if—	State how considered and any conditions that follow
(a) the wetland will be destroyed ⁸ or reduced in size ⁹	Mapped wetlands not affected by the proposed development.
(b) the biological integrity of the wetland may not be maintained	N/A

Activity involving berthing, docking or mooring a boat (EP Reg r. 59)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) The availability of facilities for collecting and disposing of wastes generated from the boat	N/A
(b) Whether to impose a condition to provide facilities for collecting and disposing of wastes generated from the boat	N/A
Examples of waste generated from a boat—bilge waste, garbage, sewage	

Activity involving storing or moving bulk material (EP Reg r. 60)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) The chemical and physical characteristics of the material	N/A
(b) The way in which the material is, or is to be, contained during each stage of the storage or movement of the material	N/A
(c) The methods of cleaning up any spillage during movement of the material	N/A

⁷ This applies to referable wetlands and significant coastal wetlands. **Referable wetland** means an area shown as a wetland on a document called 'Map of referable wetlands' made available by the chief executive. **Significant coastal wetland** has the same meaning as in the State coastal management plan.

State coastal management plan means the State coastal management plan prepared under the *Coastal Protection and Management Act 1995*.

⁸ Describe in what way the wetland will be destroyed (e.g. bulldozed, loss of water supply etc.)

⁹ Provide details of the measured area before development and the expected area after development. What is the anticipated reduction in size? Provide analysis as to whether the reduction in size is significant in terms of the original area.

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(d) <i>If storage or movement of the material is likely to result in the release of part of the material into waters, the impact of the accumulation of the material on the bed of the waters</i>	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) <i>Installing and maintaining appropriate control measures (for example—installing devices for collecting dust at places where bulk material is being moved; installing dust collectors at transfer points; enclosing, roofing or screening equipment used for storing or moving bulk material)</i>	N/A
(b) <i>Managing stockpiles of the material in a particular way (for example—setting a maximum height for a stockpile)</i>	N/A
(c) <i>Collecting, removing or disposing of spillage released while moving the material</i>	N/A
(d) <i>Monitoring the impact of releases of contaminants or waste from storing or moving bulk materials on the receiving environment including, for example, the impact of environmental nuisance and impacts on the biota of adjacent waters</i>	N/A

Activity involving disturbance of acid sulfate soil¹⁰ (EP Reg r. 61)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) <i>'State Planning Policy 2/02—Planning and Managing Development Involving Acid Sulfate Soils' (SPP 2/02)</i>	N/A
(b) <i>The guideline for SPP 2/02 (the guideline). Note—The guideline states that it may be used as a source of general advice on investigation and management of acid sulfate soils for situations outside the scope of SPP 2/02</i>	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) <i>Minimising the generation of contaminated water</i>	N/A
(b) <i>Treating acid sulfate soils</i>	N/A
(c) <i>Treating or disposing of leachate and run-off</i>	N/A

¹⁰ **Acid sulfate soil** means actual acid sulfate soil or potential acid sulfate soil. **Actual acid sulfate soil** means soil or sediment containing highly acidic soil horizons or layers affected by the oxidation of iron sulfides. **Potential acid sulfate soil** means soil or sediment containing iron sulfides or other sulfidic material that has not been exposed to air and oxidised. **Disturbance, of acid sulfate soil**, means disturbance of the soil by—

(a) excavating or removing the soil; or
(b) exposing the soil to air; or
(c) changing the level of groundwater.

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(d) <i>Managing the fluctuations in the watertable</i>	N/A
(e) <i>Maintaining minimum levels of cover over any buried acid sulfate soils</i>	N/A

Activity involving disturbance of acid-producing rock¹¹ (EP Reg r. 62)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) <i>the physical and chemical characteristics of the rock</i>	N/A
(b) <i>the potential of the rock to generate or neutralise acidity</i>	N/A
(c) <i>the characteristics of the leachate leaching from, or potentially leaching from, the rock including, in particular, contaminants in the leachate that are likely to cause environmental harm if released to the environment</i>	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) <i>The ways in which waste may be disposed of or stored, including for example, the location of areas for waste disposal or storage</i>	NA
(b) <i>Minimising the ingress of oxygen or water to areas used, or to be used, for waste disposal or storage</i>	NA
(c) <i>Inhibiting the generation of acidity from waste rock, including for example, through using particular treatments</i>	NA
(d) <i>Processes for collecting, storing and treating any generated leachate</i>	NA
(e) <i>Monitoring of the waste disposal and storage areas including, for example, the water balance and oxygen levels</i>	NA
(f) <i>monitoring the potential seepage zone for indications of the formation of acid rock drainage</i>	NA

¹¹ **Acid-producing rock** means rock containing sulfidic minerals that have the potential to oxidise and generate acidity. **Disturbance, of acid-generating rock**, means disturbance of the rock by—

- (a) excavating or removing the rock; or
- (b) exposing the rock to air; or
- (c) changing the level of groundwater.

Assessment report

Environmentally relevant activities assessed under IDAS

Activity involving direct release of waste to groundwater¹² (EP Reg r. 63)

Legislative considerations The application must be refused if—	State how considered and any conditions that follow
(a) For an application other than an application relating to an environmental authority for a petroleum activity—the waste is not being, or may not be, released entirely within a confined aquifer ¹³	Release to groundwater not authorised. Incidental releases dealt with under S64
(b) The release of the waste is affecting adversely, or may affect adversely, a surface ecological system	N/A
(c) The waste is likely to result in a deterioration in the environmental values of the receiving groundwater	N/A

Release of contaminants to groundwater (r. 64)

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
(a) The geological stability of the relevant site for the activity	Contaminants not authorised for release to GW. The geological stability of the relevant site is unknown, though the site has proven to be geologically stable during the life of the existing landfill, which commenced approximately 1980.
(b) The location, quality and use, or potential use, of the receiving groundwater	Contaminants not authorised for release to GW. Groundwater in the area is not generally utilised, and there are no registered bores in the immediate area.
(c) The permeability of the earth under the place where the activity is carried out	Fractured rock on one side of the site, and low permeability clays across the remainder of the landfill extension. An imported sub – base has low permeability, in the order of 10^{-8}
(d) The presence of containment devices at the relevant site for the activity and their effectiveness in preventing or minimising the release of the waste	As discussed elsewhere, a Geotextile Clay Liner is proposed as a liner for the landfill. This liner will sit on a groundwater cut off system. Between the 2 layers, a low permeability clay base (600mm thick), followed by the GCL (600mm equivalent thickness), with a 300mm confining layer overlaid by a leachate collection system (300mm thick) separates waste from underlying earth.
(e) The distance separating the receiving groundwater from any containment device	Monitoring suggests groundwater can rise to within 1 metre of existing ground level at the base of the facility. A groundwater cut off system will prevent groundwater coming into contact with the liner system.
(f) The potential for fluctuations in the level of the receiving groundwater	Groundwater is likely to fluctuate under the landfill. To ensure groundwater fluctuations don't adversely affect the liner, a groundwater cut off system will be installed and operational before waste is interred in the landfill extension to provide effective protection to the landfill liner before waste holds the liner in place. Once sufficient waste sits atop the liner, the groundwater cut off system will perform a passive function of preventing groundwater levels rising to a level under the landfill beyond the predetermined level, whilst also provide for an early detection system for the release of contaminants.
(g) The way in which materials, including contaminants, will be removed from the containment	Waste will not be removed from the containment system once deposited.

¹² Example of direct release of waste to groundwater—an activity involving the release of contaminated water to groundwater through a well, deep-well injection or a bore.

¹³ **Confined aquifer** means an aquifer that is contained entirely within impermeable strata.

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
system	
(h) Whether or not materials, including contaminants will be removed from the containment devices and if so, the effectiveness of the methods that will be used for the removal	N/A

Legislative considerations Consider conditioning for the following matters—	State how considered and any conditions that follow
(a) The design, construction, function, protection and maintenance of containment devices	Discussed elsewhere in this AR
(b) Maintaining a particular distance between the receiving groundwater and the point of contact between each containment device and the underlying earth	Discussed elsewhere in this AR
(c) Removing materials from the containment devices	N/A

iv) Standard criteria (as applicable)

NOTE: when considering the standard criteria, comments related only to those considered relevant are required. For criteria considered not relevant to the matter, no notation is made. Information provided should reflect the complexity of issues for the application. Example text is provided for guidance.

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
<p>(a) the principles of ecologically sustainable development as set out in the 'National Strategy for Ecologically Sustainable Development'</p> <p>E.g. The proponent has demonstrated the principles of ecologically sustainable development by proposing cleaner production techniques, waste minimisation and best practice environmental management programs. The decision made to issue the permit has integrated the long and short term economic, environmental, social and equity considerations.</p>	<p>A landfill does not typically represent ESD. Western Communities can potentially generate significant quantities of waste that requires disposal. Waste disposal facilities offer a significant service to the community, and assists contain wastes to designated and managed sites. Diversion of waste from landfill, and imposing costs on waste disposal is a "cost signal" to industry that the state government has recently announced to increase waste recovery and reduce waste disposal.</p> <p>Council is required to implement the levy system. It is anticipated this will drive better investment in waste reduction strategies and waste recycling.</p> <p>In the mean time, waste from the community continues to require disposal. Landfilling is the currently recognised process for disposing of waste that otherwise has no use.</p> <p>The site is currently impacted by waste disposal. Whilst some aspects of expanding the landfill in the direction proposed means the project is not consistent with some aspects of DERM's landfill siting design and rehabilitation guideline (such as the landfill being within 100m of Q100; within 2m of underlying groundwater; and within 500m of sensitive receptors), the design includes measures to assist reduce the impacts of the proposed activity which largely assist to counteract the inconsistencies – ie whilst the application has some inconsistencies with DERM guidelines, it also contains</p>

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
	<p>measures to assist overcome those inconsistencies.</p> <p>Given the site is currently impacted by landfilling, maximising the life of the site for this existing activity is generally supported, particularly given the existing activity does not appear to have caused significant impacts on the receiving environment.</p> <p>Continuing the landfilling activity on land already impacted by landfilling is seen as a reasonable proposal.</p>
<p><i>(b) any applicable environmental protection policy</i></p> <p>E.g. The EPPs on water, air, noise and waste have been considered during the assessment of this application. The objectives and standards of EPP—water, air, noise and waste management have been incorporated in preparing the resulting conditions.</p>	<p>Applicable policies have been discussed elsewhere in this AR.</p>
<p><i>(c) any applicable Commonwealth, State or local government plans, standards, agreements or requirements</i></p> <p>E.g. The local government statutory plans have been considered. In addition NHMRC and ANZECC guidelines have been used to assist in benchmarking environmental performance. The information provided by the company has been considered in conjunction with the nature of the industry, and the receiving environment.</p>	<p>The land on which the landfill extension is proposed recognises use of the land for landfilling and transfer station.</p> <p>Gympie Regional Council is the assessment manager for this application, and responsible for ensuring any relevant planning considerations are taken into account in its role as assessment manager.</p>
<p><i>(d) any applicable environmental impact study, assessment or report</i></p> <p>E.g. An EIS has been conducted and background information reviewed. In order to assess the impact of the proposal, baseline data on ambient air and surface water quality have been reviewed. Ongoing monitoring is recommended to assess ongoing impact of the facility. The environmental assessment report and the information contained in the application were considered while processing this application.</p>	<p>A neighbouring land owner has commissioned consultants to undertake noise and odour assessments. Those reports have been submitted to DERM, and have been reviewed by the assessing officer. Those reports are discussed elsewhere in this assessment report.</p>
<p><i>(e) the character, resilience and values of the receiving environment</i></p> <p>E.g. The current zoning of the subject site and surrounding areas and the location of sensitive land uses have been considered.</p>	<p>Discussed elsewhere in this AR.</p>

R

Assessment report

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
<p><i>(f) all submissions made by the applicant and submitters</i></p> <p>E.g. There were no submissions as there was no public notification process. The application has been considered.</p>	<p>There is no formal public notification or objection period with this application.</p> <p>Neighbouring landowner, Mr Gary Andrews has objected to both the proposed landfill extension and the transfer station. Primarily, Mr Andrews main concern relates to the Transfer Station, and the potential for noise impacts.</p> <p>Mr Andrews has submitted correspondence to the Department regarding his objection, which includes an odour assessment and a noise report (noise report completed by TTM consultants).</p> <p>TTM undertook unattended ambient monitoring and determined L90, Leq and L10 noise measurements for various times of the day. Of concern, the TTM report identifies a particularly low L90 (39) compared to the other parameters Leq (52) and L10 (54). Of note, Leq and L10 are quite close. As the monitoring was unattended, validation of the results is not available.</p> <p>Given Leq and L10 are very close, L90 may not be a realistic reflection of the true background noise level.</p> <p>The consultant identifies an appropriate LamaxadjT of 44dB(A) for the proposed activity. Interestingly, this is a similar level as the level determined by ANE consultants working for GRC.</p> <p>Discussion with various personnel in the Department determined a reasonable noise descriptor is Laeq – given the noise includes a range of steady and impulsive noises. As discussed elsewhere in this AR, DERM has imposed a Noise limit of 44dB(A) Laeq on the Transfer station. To meet this requirement, the transfer station design was modified to include walls lined with noise absorbing materials. In addition, the client committed not to undertake green waste mulching or concrete crushing onsite, and will ensure metal collection (removal of metal in bulk using heavy machinery) will be undertaken inside the transfer station structure. In addition, external acoustic barriers will shield truck load areas and will provide a barrier along Bonnick Road. DERM has also prescribed conditions to prevent use of speed bumps to regulate vehicle speed, as a noise reduction strategy.</p> <p>DERM has prescribed a limit of 47dB(A) on the landfill activity. This level is 3dB(A) above the level prescribed for the transfer station. The landfill is generally further from residential receptors and has favourable topography (including being separated from the newest residential receptors by commercial premises). Hence, noise from the landfill is unlikely to cause nuisance at nuisance sensitive premises.</p> <p>This prompts the question – why authorise a higher noise level for the landfill? It is the case that the landfill operation is an open air activity, and cannot be enclosed. Imposing an unreasonable noise level on this activity may be an unreasonable condition, and hence one the applicant could appeal.</p> <p>Importantly, in authorising 47dB(A) Laeq, the authorised noise level is 3DB(A) less than the level prescribed in the EPP Noise – Acoustic quality objectives for health and wellbeing at a dwelling (outdoors) during the daytime and evening.</p> <p>Noteworthy, the authorised 47dB(A) is considered generally consistent with the noise limit derived using the PfNCG, and confirmed during discussion with DERM colleague (experienced in</p>

Environmentally relevant activities assessed under IDAS

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
	<p>the use of the PfNCG) Toshi Yoshino.</p> <p>In addition to authorising a higher noise emission for the landfill at nuisance sensitive receptors, conditions in the approval restrict all noise emissions from the landfill to between the hours 7am to 5pm Monday to Friday, and 10am to 3pm on weekends.</p> <p>The clear and prescriptive constraints of the conditions regulating noise emissions ensure the landfill and the transfer station must comply with noise levels substantially less than the acoustic quality objectives EPP Noise, whilst also affording some surety to the client.</p>
<p><i>(g) the best practice environmental management for activities under any relevant instrument, or proposed instrument, as follows—</i></p> <ul style="list-style-type: none"> <i>(i) an environmental authority;</i> <i>(ii) a transitional environmental program;</i> <i>(iii) an environmental protection order;</i> <i>(iv) a disposal permit;</i> <i>(v) a development approval</i> <p>E.g. The proposed plant is designed to be an efficient modern facility. The proponents have adopted the principles of waste minimisation and cleaner production in preparing their environmental policy. This policy extends to reduce the amount of waste generated at the site.</p>	<p>Much of the design is generally consistent with DERM's Landfill guideline. Whilst there are some aspects that are not consistent with the guideline, there are measures proposed to assist overcome or counteract those inconsistencies. Extensive monitoring requirements provide early detection, with annual interpretive reports to be submitted by suitably qualified and experienced independent persons.</p> <p>Improvements to the design of the transfer station during the decision making period assist the applicant to overcome potential noise impacts.</p> <p>Conditions in the CR ensure the client must comply with the modelled noise levels, and require noise attenuation measures committed to in the application are certified by a suitably qualified person as being appropriately installed before the transfer station is commissioned.</p>
<p><i>(h) the financial implications of the requirements under an instrument, or proposed instrument, mentioned in paragraph (g) as they would relate to the type of activity or industry carried out, or proposed to be carried out, under the instrument</i></p>	<p>Landfill</p> <p>Extensive monitoring and reporting requirements are conditioned in the CR. Council has agreed to those conditions during the consultation process.</p> <p>In addition, restricted hours of operation for the landfill, particularly on weekends (10am to 3pm) is a cost to council, as the facility is not able to be used outside those hours.</p> <p>Transfer Station</p> <p>Measures in the design to achieve compliance with 44dB(A) in the noise models are expensive – fully enclosing the transfer station and lining it with material to absorb noise, coupled with external acoustic barriers is an expensive exercise. In addition, hours of operation are restricted to 7am to 5pm week days and 9am to 4pm on weekends. These restricted hours are also recognised as a cost to council, given council must invest heavily in a structure to comply with noise limits, which also has restricted hours of operation.</p> <p>Monitoring and reporting regimes have been established by adopting specific conditions to enable continued assessments of environmental impacts. The proponents must ensure finances are allocated for completion of the monitoring program. Adequate funds, equipment and staff time must be allocated to meet the commitments of the conditions.</p>

Legislative considerations Consider the following matters—	State how considered and any conditions that follow
<i>(i) the public interest</i> E.g. No public submissions or enquires have been received for the application. The environmental values of the local community will be protected by the proposed conditions.	A public submission has been received in relation to the proposed development. That submission is discussed elsewhere in this AR. The concerns raised in that submission are not disregarding by DERM. DERM has rigorously followed up on potential impacts from the proposed activity to assist mitigate potential impacts from the proposed activity on the property owned by the submitter. In doing so, potential impacts to other nuisance sensitive receptors will should also be reduced minimised or mitigated.
<i>(j) any applicable site management plan</i> E.g. There is no site management plan for contaminated land for this site. OR The Contaminated Land Unit was consulted about the site management plan for this site. (Include details).	The current site management plan is not deemed appropriate for the landfill extension or the transfer station, as the design of both aspects of the development contain measures that don't exist for the existing landfill. The CR prescribes the requirement for a Site Based Management Plan that supports the operating and regulatory requirements necessary to comply with the CR. Although the site is listed on the EMR, there is no proposal to change its use.
<i>(k) any relevant integrated environmental management system or proposed integrated environmental management system</i>	Nil
<i>(l) any other matter prescribed under a regulation</i>	Nil

v) Native title comments following notification (if applicable)

Considered by PALM.

vi) Notifiable activity (if applicable)

Land filling is a Notifiable activity. The site in question is already a landfill, and is already listed on the EMR.

vii) Wild river area consideration (if applicable)

Not applicable

5. Consultations

Consultations include:

- Gary Andrews – objector
- Michael Grant, Ian Wolffe, Tania Allen, Grayden Curry, Bob Ashford – GRC
- CTPI 49-Sch4-Name – Consultants for GRC
- Antoine David – DERM noise specialist
- Kate Puschmann – DERM noise specialist
- Toshi Yoshino – DERM officer – experienced in noise assessment and monitoring
- Richard Oakley – DERM landfill specialist
- Murray Allen – DERM landfill specialist

6. Project constraints

Noise emissions from the proposed activity were a major consideration in this application.

Following extensive consultation with GRC, authorised noise levels prescribed in the CR, along with noise abatement measures, restricted hours of operation and excluding certain activities (green waste mulching and concrete crushing), it is deemed the proposed activity can occur in a manner that appropriately deals with noise impacts on the receiving environment.

Although some aspects of the landfill are not consistent with DERM's guideline, reasonable measures are propose to mitigate impacts that may arise from those inconsistencies.

Section 288 of the Sustainable Planning Act 2009 prescribes that, *to the extent a concurrence agency's jurisdiction is about assessing the effects of development on designated land, the concurrence agency may only tell the assessment manager to refuse the application if a) the concurrence agency is satisfied the development would compromise the intent of the designation; AND b) the intent of the designation could not be achieved by imposing conditions on the Development approval.*

The assessing officer considers the client has proposed a development that will generally improve the environmental performance of an existing activity. In addition, the proposal assists in the management of impacts to land that has already been impacted by landfilling. The conditions in the Development Approval generally reflect commitments from the client in the application, satisfying DERM that the development can occur in a sustainable manner. Hence, DERM is not in a position to refuse the application.

7. Point source database

Decision does not authorise a release of contaminants, and the client would not report on this activity to the PSD.

Copy of development approval or the original development approval and subsequent decision notices has been sent to: psd.help@derm.qld.gov.au Yes ☐ No ☒

8. Recommendation

It is recommended that the proposed development should be:

Select:	If approved select:	If approved, also select:
☒ Approved or	☒ With a development permit or	☒ With conditions or
☐ Refused	☐ With a preliminary approval or	☐ No conditions
	☐ In part only	

Recommend conditions attach to any development approval

Assessing Officer: Matt Karle

Signed:

CTPI 49-Sch4-Signature

by the Assessment Manager.

Date: 2nd February

9. Review and endorsement

Final review on 2nd February 2012.

Manager/Director: Tim Brain

Signed:

CTPI 49-Sch4-Signature

Date: 3 February 2012

Delegate: Tim Brain

Signed:

CTPI 49-Sch4-Signature

Date: 3 February 2012

**Development Application 8969
Negotiated Decision Notice**

Issued under the Integrated Planning Act 1997 (S3.5.15 and S3.5.17)

- *Integrated Planning Act 1997 (S.3.5.15)*

The Development Application DA08969 for the purpose of a Material Change of Use of Premises - To Apply the Land Use Entitlements of the Housing Zone and Reconfiguring a Lot - Subdivision to Create - 83 Additional Lots in Seven (7) Stages was assessed and:-

Approved with Conditions

The decision was made by Cooloolool Shire Council on *1 March 2005*

Unless the use has commenced beforehand, this permit will lapse on 1 March 2009

Local Government Area: *Cooloolool Shire Council*

The following schedule provides all the relevant details.

ORIGINAL DECISION NOTICE DETAILS

Decision made by Council: *16 November 2004*

Decision Notice issued: *16 November 2008*

APPEAL PERIOD DETAILS

Original Appeal Period Expiry Date: *Within 20 days from the issue of the Decision Notice
(ie 22 December 2004)*

Appeal Period Suspended by Applicant: *7 December 2004*

New Appeal Period Expiry Date: *Within 20 days from the issue of this Negotiated Decision Notice
(ie 6 April 2005)*

NATURE OF CHANGES TO ORIGINAL DECISION NOTICE

- (1) Condition 1.4 (all stages) to be amended to indicate that the Council will be prepared to review this requirement on completion of further detailed representations of the appropriate portion of the cost of the work or alternatively await the outcome of Council's current investigations.
- (2) Condition 1.8 (Stage 7) and Condition 1.7 (Stages 8-13) be amended by the contribution amount to \$520 / lot plus CPI.

Bonnick Road Waste Management Facility Redevelopment Update

Council recently lodged a development application with the Queensland Government to construct a modern, user-friendly waste transfer station and landfill cell at the Bonnick Road Waste Management Facility, located on Bonnick Road, Gympie.

These works will be undertaken to achieve the following objectives:

- encourage recycling and reuse of waste materials and diversion of waste from landfill through provision of a number of recycling and resource recovery initiatives
- provide an assured point for landfilling waste for the local community for approximately 10 years (depending on waste volumes received) through construction of a landfill cell. Following completion of landfilling at the site, waste will be transported to a centralised waste management facility for landfilling
- reduce the impact of the waste management facility to the natural environment and surrounding properties by incorporating environmental controls and integrating the facility with the existing surrounding built and natural environment
- provide safe access to and from the site and vehicle movements within the site by improving internal roads, loading areas and constructing a car park

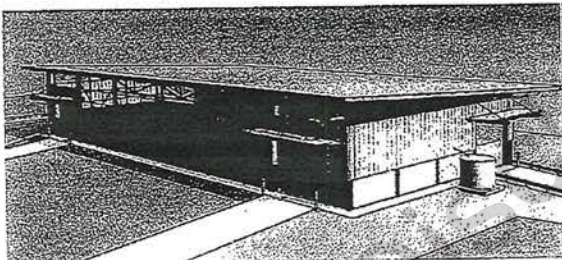
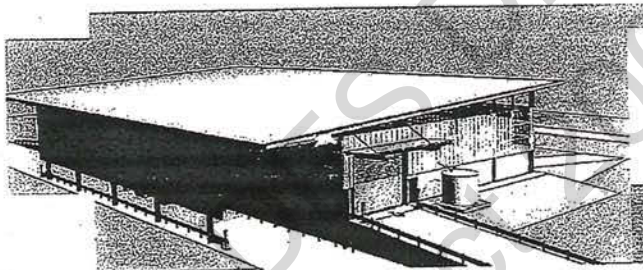
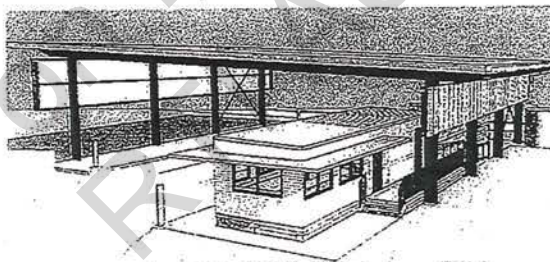
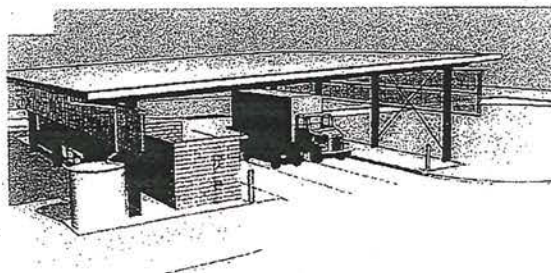
Transfer Station

Council proposes to construct a waste transfer station at the north-eastern end of the site. It is anticipated that the transfer station will include the following features:

- a gatehouse, located before entry to the transfer station building
- a resource recovery building - an open structure containing multiple lanes for thoroughfare of vehicles. The public will be able to pull their vehicles over into the two outside lanes and drop off recyclable materials in recycling bins/areas located on the side
- a bulky recycling/storage area - an area designated for stockpiling of green waste, metal, tyres and possibly hard fill (should this occur, separated construction & demolition waste will not be crushed on-site)

- a general waste disposal area - an area for the public to deposit general waste on floor (Council will load waste into transfer bins and dispose of waste to landfill)

Preliminary concept designs submitted as part of the development application will be subject to change, and final design for the waste transfer station is yet to be completed.



Recycling Shop

The recycling shop is planned to remain in its current location using the existing entrance, which will be sealed. A sealed car park will be constructed adjacent to the recycling shop.

Landfill Cell

The new landfill cell will be constructed on the western side of the existing landfill. The landfill cell is being designed to achieve modern environmental standards for landfill construction and operation, and environmental controls for dust, noise, odour, windblown litter, and storm water and groundwater management will be incorporated into the design.

Following completion of landfilling at the site, the transfer station will continue to operate and waste will be transferred to a centralised waste management facility for landfilling.

Hours of Operation

Opening hours of the Bonnick Road Waste Management Facility are:

8:00am to 5:00pm 7 days a week

(excluding Good Friday, ANZAC Day & Christmas Day)

For further information

Preliminary Concept Design -
Resource Recovery Building
(designs are subject to change)

A copy of the development application is available for viewing at Council's Planning and Development Directorate, located at 242 Mary Street, Gympie.

Planning inquiries regarding this project should be directed to Council's Planning and Development Directorate on (07) 5418 0644.

Inquiries regarding waste management operations should be directed to Council's Community Services Directorate on (07) 5481 0611.



Community Services

PO Box 155, GYMPIE QLD 4570

24 Mellor Street, Gympie

Phone (07) 5481 0611

Fax (07) 5481 0801

council@gympie.qldgov.au

Extension R S A**Request notice of extension of decision period under:**

- ☐ section 328 of Environmental Protection Act 1994 (for deciding submitted Env. reports)
☐ section 555 of Environmental Protection Act 1994 (for EA and TEP decision periods)
☒ section 277 of Sustainable Planning Act 2009 (one off extension for info request period)
☐ section 277 of Sustainable Planning Act 2009 (extension by agreement for info request period)
☐ section 284 of Sustainable Planning Act 2009 (one off extension for DA's by 20 B days – CA)
☐ section 284 of Sustainable Planning Act 2009 (extension by agreement for DA's – CA)
☐ section 318 of Sustainable Planning Act 2009 (one off extension for DA's by 20 B days – AM)
☐ section 318 of Sustainable Planning Act 2009 (extension by agreement for DA's – AM)
☐ section 375 of Sustainable Planning Act 2009 (extension by agreement to change/cancel conditions)

Client Name: GYMPIE REGIONAL COUNCILAddress: C/O GHDPO Box 1300GYMPIE QLD 4570Type of application to which extension relates: DA for MCVReason for extension: More time to consider application. Officer assessing is
in Ipswich. W/c is impacted by flooding.Ecotrack Proj No: 221737 Original Decision Due Date: 29/02/11 27/1/2011File No.: MBH 2951 Proposed business days to extend: 10Permit No.: SPCE 0141731D New decision due date: 27/1/11Project Manager: Michelle Wright

Approved



Deferred



Not Approved

Decision:

Signature: CTPI 49-Sch4-Signature Date Approved: 12-1-11 Date Posted:**Extension Notice Checklist**

Notice sent to applicant



Green copy to file



Ecotrack updated



Due dates updated



RSA spreadsheet updated

IF ALL TICKED.....

RETURN FILE TO
ASSESSING OFFICER

Extension of information request period

This notice is issued by the Department of Environment and Resource Management pursuant to section 277 (information request period) of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
c/o GHD
PO Box 1300
GYMPIE QLD 4570

cc. Tanya Stenholm
Gympie Regional Council
PO Box 155
GYMPIE QLD 4570
Council reference: 2010-1765

Our reference: 221737 MBH2951

Re: Application for development approval – extension of information request period

1. The Chief Executive, Department of Environment and Resource Management (DERM) as concurrence agency has extended the information request period by 10 business days to 27 January 2011 for the following application.

2. **Application Details**

Date application made or referred to DERM:

21 December 2010

Development approval applied for:

development permit

Aspect(s) of development:

Material change of use - Environmentally relevant activities	<i>Sustainable Planning Regulation 2009 - Schedule 7, table 2, item 1</i>	DERM ref. no. - 221737 DERM Permit No. SPCE01417310
--	---	--

Property/Location description:

Lot 542 MCH801883
Bonnick Road GYMPIE



Fax

To	Michael Ball	Fax	(07) 5482 9433
Subject	Notice for Extension of Information Request Period		
Reference	Development Application 2010-1765		
From	Joanne Harris		
Phone	(07) 4121 1889	Fax	(07) 4121 1650
Email	Joanne.harris@derm.qld.gov.au		
Date	12 January 2011	Pages (inc. cover)	3

Hi Michael

Pls find attached Notice for extension of Information Request Period for DA 2010-1765. I will also send via email to you as an attachment.

The original copies will be posted to you in the mail today.

Kindly acknowledge receipt of this fax by calling me 4121 1889 or sending me an email.

Thank you.

Regards

Joanne Harris

Environmental Support Officer

Important notice about confidentiality: This facsimile is intended only for the addressee and may contain confidential information. You are notified that any transmission, distribution or photocopying of this facsimile is prohibited. The confidentiality attached to this facsimile is not waived, lost or destroyed by reasons of a mistaken delivery to you. If you have received this facsimile in error, please notify us immediately by telephone.

ABN 46 640 294 485

Fax

To	Tania Stenholm	Fax	(07) 5481 0801
Subject	Notice for Extension of Information Request Period		
Reference	Development Application 2010-1765		
From	Joanne Harris		
Phone	(07) 4121 1889	Fax	(07) 4121 1650
Email	Joanne.harris@derm.qld.gov.au		
Date	12 January 2011	Pages (inc. cover)	3

Hi Tania

Pls find attached Notice for extension of Information Request Period for DA 2010-1765.

The original copies will be posted to you in the mail today.

Kindly acknowledge receipt of this fax by calling me on 4121 1889.

Thank you.

Regards

Joanne Harris

Environmental Support Officer

* Note: Council's Internet is
down. Advised to
send by fax instead.

Important notice about confidentiality: This facsimile is intended only for the addressee and may contain confidential information. You are notified that any transmission, distribution or photocopying of this facsimile is prohibited. The confidentiality attached to this facsimile is not waived, lost or destroyed by reasons of a mistaken delivery to you. If you have received this facsimile in error, please notify us immediately by telephone.

ABN 46 640 294 485

 **Queensland
Government**

ID=DERM/QPW M,BORO 41211650

73(2)Irrelevant

Information request

This notice is issued by the Department of Environment and Resource Management pursuant to section 276 of the Sustainable Planning Act 2009 ("the Act").

Gympie Regional Council
C/- GHD
P.O. Box 1300
GYMPIE QLD 4570

Attention: Michael Ball

Chief Executive Officer
Gympie Regional Council
P.O. Box 155
GYMPIE QLD 4570

Attention: Tania Stenholm

Our reference: 221737

Re: Application for development approval

1. The Chief Executive, Department of Environment and Resource Management (DERM) as assessment manager requests the applicant to give further information needed to assess the application. That further information is stated in the attached information request.

2. **Application Details**

Date application made or referred to DERM: 21/12/2010

Development approval applied for: Development permit

Aspect(s) of development:

Material change of use of premises – For an environmentally relevant activity	Sustainable Planning Regulation 2009 - Schedule 3, Part 1, Table 2, item 1	DERM ref. no. – 221737 DERM Permit No. SPCE01417310
--	---	--

Property/Location description:

Lot 542 on Plan MCH801883

3. The application will lapse unless the applicant gives the assessment manager or concurrence agency a response to the information request under section 278 of the Act which requires such response to include a written notice to the requesting authority stating:

- (a) all of the information requested is provided; or
- (b) part of the information requested is provided, and to proceed with assessment of the application; or
- (c) the applicant does not intend to supply any of the information requested, and to proceed with assessment of the application.

Information Request

DERM ref. no. Permit No. **SPCE01417310**

1. Environmental Monitoring and Performance

Concern

The information is lacking in consideration of environmental monitoring information collected from the site over the lifetime of operation and applied to the current application. Such information provides real and relevant data and an indication as to the operational performance of the site, including likely or ongoing issues that must be considered in the assessment process.

Information Requested

Please provide the following information:

- Summary and evaluation of **all** available environmental monitoring and performance data that has been undertaken at the site during its lifetime, information to include any:
 - Surface water analysis results and trends.
 - Contaminated water/leachate analysis results and trends.
 - Groundwater monitoring borehole analysis results and groundwater water level trends.
 - Air emission monitoring results, including landfill gas, particulates and odour monitoring that may have been conducted.
 - Nuisance reports, if any, received at the site, actions taken and the outcome.

2. Geological and Hydrogeological Assessment

Concern

The design and operation of the landfill must consider the local geological and hydrogeological conditions. Given recent rainfall/flooding events, it is highly likely that hydrogeological conditions, circumstances and risks will have changed in the period since the investigations were conducted and the reports contained in this application submitted; ground water levels will have risen (as was considered likely in the submitted report) and pathways may well have changed.

Information required

- An evaluation of the current local hydro-geological systems at the site, to include as a minimum:
 - Groundwater and surface water quality and flow regimes; including data and mapping on all water features, surface water, saturated/ unsaturated zones and any perched water features together with identification of any potential or known linkages with waters in hydraulic continuity and evidence of supporting site investigations.
 - Ground water and surface water vulnerability - resource users and sensitive receptors.
 - A water balance and evaluation of all sources/inputs, storage and output/releases.
 - A full hydrogeological risk assessment that considers the whole lifecycle of the land filling operations against the site specific landfill design and includes the potential risk of barrier failure; to include a copy of the groundwater risk assessment that was required by condition 2E24 of Integrated Authority CM0309 dated 11/02/05.
 - Modelling of hydrogeological risks in association with liner design.
 - Consideration of current/recent groundwater levels and their assessment against proposed cell floor level; adequacy of underdrainage system to reduce hydrostatic pressure on the liner.

3. Landfill Design

Concern

The application does not include the necessary detail required on the landfill design, infrastructure and environmental management and control.

R

Receiving Waste

5. How will each specific waste stream be dealt with at the transfer station, include detail about how each type of waste will be managed to ensure environmental pollution is not caused, to include details of: container construction/size; storage location and ground surfaces/permeability; maximum storage quantities, management of any quarantine area for unacceptable wastes.
6. Detail how records will be kept about the receipt of waste, what details are kept by Councils Records system altogether: Waste Type/code, qty, producer, haulier, tonnage or volume.
7. While a description has been given, there is insufficient detail provided on the site's emergency response plan, particularly in response to flooding and fire. Provide detail on the procedures and management of emergency incidents, during operational and non operational hours, to include: reporting and notification; staff training, site manning equipment and structure.

General

8. The application indicates that council is re-tendering for the detailed design of the transfer station building based on the plans that have been included, please confirm the status and currency of submitted plans.
9. The application includes detail of the construction of a bund around the downstream side of the landfill and accepts that the site falls within the 1 in 100 year flood level. Provide evidence of a risk assessment that suitably demonstrates that the design has reasonably considered consequences and impacts of a flood event on the environmental impact and releases from the site, to include: the impact of raised ground water levels on sub surface drainage; landfill basal and side liner integrity, leachate management infrastructure and management; continued site operations during events and general landfill stability. An impact and status report summarising the environmental impact of the recent flooding events will assist in reviewing potential/actual impact for the landfill extension.
10. The site plan provided must show all the following potential receptors (in metres) present in the general location from the site in northern, eastern, southern and western directions:
 - Domestic dwellings (human occupation in bands: closer than 50 metres, between 50 and 250 metres and 250 to 500 metres);
 - Child cares centres, schools and colleges;
 - Offices, industrial units and commercial premises;
 - Sensitive habitats and environmental areas;
 - Public footpaths;
 - Highways and roads;
 - Open spaces;
 - Parks;
 - Allotments;
 - Farmland;
 - Other public access areas;

Air

11. Details of dust, odour and litter management and mitigation have been provided however there is no information to show how the management hierarchy for the waste disposal facility in relation to air emissions has been applied, as outlined in the Environmental Protection (Air) Policy 2008, in order for local environmental values to be enhanced or protected.
12. The application identifies that gas concentrations are expected to exceed the odour detection threshold for all compounds reviewed and that odours are likely to be detectable. A description of the operational

Fax

To	Tania Stenholm	Fax	(07) 5481 0801
Subject	Notice for Information Request		
Reference	Development Application 2010-1765		
From	Joanne Harris		
Phone	(07) 4121 1889	Fax	(07) 4121 1650
Email	Joanne.harris@derm.qld.gov.au		
Date	27 January 2011	Pages (inc. cover)	7

Hi Tania

Pls find attached a copy of the Notice for Information Request for DA 2010-1765. Kindly acknowledge receipt either by email or a phone call.

The original copy will be posted to you in the mail today.

Thank you.

Regards

Joanne Harris
A/Environmental Support Officer

Important notice about confidentiality: This facsimile is intended only for the addressee and may contain confidential information. You are notified that any transmission, distribution or photocopying of this facsimile is prohibited. The confidentiality attached to this facsimile is not waived, lost or destroyed by reasons of a mistaken delivery to you. If you have received this facsimile in error, please notify us immediately by telephone.

ABN 46 640 294 485



Fax

To	Tracy	Fax	(07) 5482 9433
Subject	Notice for Information Request		
Reference	Development Application 2010-1765; DERM Ref 221737		
From	Joanne Harris		
Phone	(07) 4121 1889	Fax	(07) 4121 1650
Email	Joanne.harris@derm.qld.gov.au		
Date	27 January 2011	Pages (inc. cover)	7

Hi Tracy

Pls find attached a copy of the Notice for Information Request for DA 2010-1765 for Michael Ball's attention. Kindly acknowledge receipt either by email or a phone call.

The original copy will be posted to you in the mail today.

Thank you.

Regards

Joanne Harris
A/Environmental Support Officer

Important notice about confidentiality: This facsimile is intended only for the addressee and may contain confidential information. You are notified that any transmission, distribution or photocopying of this facsimile is prohibited. The confidentiality attached to this facsimile is not waived, lost or destroyed by reasons of a mistaken delivery to you. If you have received this facsimile in error, please notify us immediately by telephone.

ABN 46 640 294 485



R

ID=DERM/QPW M, BORO 41211650

TOTAL TIME TX=00:12' RX=00:24'

DATE	TIME	S,R-TIME	DISTANT	STATION ID
2024-01-10	10:00	10:00	10:00	10:00

73(2) Irrelevant

[illegible]



facility and surrounding residential uses would be to partially develop land to the north and north-east for industrial uses with the remainder being developed for residential uses. In doing so, the land immediately to the north of the site could be developed as an extension of the existing industrial precinct to the north of the site such that it provided an effective barrier to noise from the waste facility.

Figure 16 presents an indication of the potential area that could be incorporated into future industrial development. Construction of industrial buildings and an associated acoustic barrier (similar to that in use at the existing industrial area) in this section of land is likely to result in a significant reduction in potential noise impacts for a large portion of the receptors located to the north and north-east of the waste facility. It is noted that this option, with effective design of the new industrial precincts, could result in a portion of the potential development land to the north (area F1) being within the appropriate noise levels for residential uses.



Figure 16: Area for potential future development for industrial / commercial uses

application as if the agency had assessed the application and had no concurrence agency requirements.

- (2) However, the concurrence agency's response is taken to be a refusal of the application if—
 - (a) the application is a building development application; and
 - (b) the concurrence agency is the local government; and
 - (c) the matter being decided by the concurrence agency is a matter other than assessing the amenity and aesthetic impact of a building or structure; and
 - (d) the concurrence agency does not give a response under section 285.

287 Concurrence agency's response powers

- (1) A concurrence agency's response may, within the limits of the concurrence agency's jurisdiction, tell the assessment manager 1 or more of the following—
 - (a) the conditions that must attach to any development approval;
 - (b) that any approval must be for part only of the development;
 - (c) that any approval must be a preliminary approval only;
 - (d) a different period for section 341(1)(b), (2)(c) or (3)(b).
- (2) Alternatively, a concurrence agency's response must, within the limits of the concurrence agency's jurisdiction, tell the assessment manager—
 - (a) the concurrence agency has no requirements relating to the application; or
 - (b) to refuse the application.
- (3) However, subsection (2)(b) does not apply to the extent a concurrence agency's jurisdiction is about the assessment of the cost impacts of supplying infrastructure to development.

[s 288]

- (4) Subsection (5) applies if a concurrence agency's response is about the part of an application for a preliminary approval mentioned in section 242 that states the way in which the applicant seeks approval to vary the effect of any applicable local planning instrument for the land.
- (5) The concurrence agency's response may, within the limits of the concurrence agency's jurisdiction, tell the assessment manager in relation to the part of the application—
 - (a) that the concurrence agency has no requirements relating to the part of the application; or
 - (b) if an approval is given, to do any of the following—
 - (i) approve only some of the variations sought;
 - (ii) subject to section 242(3) and (5)—approve different variations from those sought; or
 - (c) to refuse the variations sought.
- (6) A concurrence agency's response may also offer advice to the assessment manager about the application.

288 Limitation on concurrence agency's power to refuse application

- (1) To the extent a concurrence agency's jurisdiction is about assessing the effects of development on designated land, the concurrence agency may only tell the assessment manager to refuse the application if—
 - (a) the concurrence agency is satisfied the development would compromise the intent of the designation; and
 - (b) the intent of the designation could not be achieved by imposing conditions on the development approval.
- (2) To the extent a local government's concurrence agency jurisdiction is about assessing the amenity and aesthetic impact of a building or structure, the concurrence agency may only tell the assessment manager to refuse the application if the concurrence agency considers—

[s 289]

- (a) the building or structure, when built, will have an extremely adverse effect on the amenity or likely amenity of its neighbourhood; or
- (b) the aesthetics of the building or structure, when built, will be in extreme conflict with the character of its neighbourhood.

289 Concurrency agency's response to include reasons for refusal or conditions

- (1) If a concurrence agency's response, other than a refusal taken to have been given under section 286(2), requires an application to be refused or requires a development approval to include conditions, the response must include reasons for the refusal or inclusion.
- (2) If—
 - (a) a concurrence agency's response is for the part of an application for a preliminary approval mentioned in section 242 that states the way in which the applicant seeks approval to vary the effect of any applicable local planning instrument for the land; and
 - (b) the response requires the assessment manager to take an action mentioned in section 287(5)(b) or to refuse the variations sought;

the response must include reasons for the requirement.

290 How a concurrence agency may change its response or give late response

- (1) Despite section 285, a concurrence agency may, after its referral agency's assessment period and any extension of that period ends but before the application is decided—
 - (a) give a response (a *concurrence agency's response*) if the applicant has given written agreement to the content of the response or the Minister has given the concurrence agency a direction under section 420; or