

From: [Bernsdorf Solly, Susi](#)
To: [Tammy Ward](#)
Subject: 13 March email - response from CGW to question from Tonkin and Taylor
Date: Monday, 4 May 2020 10:19:19 a.m.
Attachments: [image001.jpg](#)
[image002.jpg](#)
[9A445EC0497A4BA8B71B3D3D01971BE4.png](#)
[image004.jpg](#)
[image005.png](#)

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From: courtenay isherwood <csisherwood@hotmail.com>
Sent: Friday, 13 March 2020 3:18 PM
To: LCrichton@tonkintaylor.co.nz
Cc: Bernsdorf Solly, Susi <Susi.b.solly@wsp.com>
Subject: 205 Lud Valley Road Martin Williams

Hi Luke,

Martins amended response email below, and previous email responses from him show he has seen the new plan.

If this doesnt suffice, let me know and will ask him to respond in more detail directly to you himself.

Regards

Courtenay Isherwood
Director
Isherwood Consultants Limited
021 066 3357
<https://www.facebook.com/ResourceConsents/>



Sent from [Mail](#) for Windows 10

From: [courtenay isherwood](#)
Sent: Wednesday, 4 March 2020 10:58 AM
To: [Martin Williams](#)
Cc: [Kylie Johnson](#); [Brandon Kay](#)
Subject: Re: RE: Statement from Waka Group Limited for Isherwood Consultants Limited

Thanks Martin
Courtenay

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Sent from myMail for Android

Wednesday, 04 March 2020, 10:57AM +13:00 from Martin Williams Martin@cgwl.co.nz:

Change comment b) to :

- Please refer to PDF attachment – 205 Lud Site Contours.pdf
- Of the ten cross sections, four marginally exceed the recommended 35% (19.3°), being sections A1 (21.4°), A4 (19.6°), A8 (20.9°) and section A9 (20.3°). The average slope from the ten sections is 18.9°. which meets CGW's recommendations. From an instability perspective, the localised slightly steeper angles are negligible and the increased risk inconsequential.

Regards

Martin Williams • Geotechnical Manager

BSc, MSc, CMEngNZ, CPEng, IntPE, CGeol

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http://downingdesign.co.nz/uploads/CGW_signature.jpg



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From: courtenay isherwood <csisherwood@hotmail.com>

Sent: Tuesday, 3 March 2020 2:21 pm

To: Martin Williams <Martin@cgwl.co.nz>

Cc: Kylie Johnson <kylie@cgwl.co.nz>; Brandon Kay <Brandon@cgwl.co.nz>

Subject: FW: Statement from Waka Group Limited for Isherwood Consultants Limited

Hi Martin,

Please find attached plan from Waka showing the 10m interval sections and correct cross sections.

Do you mind reviewing and amending your previous response below to reflect the correct data? Any urgency you can give this would be appreciated.

Cheers

Courtenay

16. Please supply the following information to demonstrate compliance with your geo-professional and wastewater engineer's recommendations in relation to the proposed waste disposal field:

a) An accurate plan of the proposed location of the disposal field at a scale no larger than 1:500 at A3, complete with labelled contours, the location of the proposed disposal field, and areas where no building is recommend and identified instability areas exist (as identified by the Geo-professional).

- Please refer to PDF attachment - 18360-01-DWG.pdf

b) Regular cross-sections through the steepest slope profiles of the proposed disposal field to demonstrate that the location of the disposal field can be located on slopes that comply with the Geo-professional's recommendation . Cross-sections should extend up and down slope of

the disposal filed and be a maximum of 10 m apart. If they reveal that the area of the proposed disposal field is in excess of 35% (19.3°), please provide results of slope stability analysis and commentary from the Geo-professional (as originally requested under Q16.b)

- Please refer to PDF attachment – 205 Lud Site Contours.pdf
- Of the five cross sections, two marginally exceed the recommended 35% (19.3°), being section D (21.0°) and section E (19.5°), which as the plan shows are nearer to the steeper southern part of the site. From an instability perspective, the slightly steeper angle is negligible and the increased risk inconsequential.

c) With regard to the Geo-professional response 'that sensitivity would have already become apparent following sustained rain storm events with rainfall water application rates far in excess of the effluent application rate.' We find this statement to be contradictory, as the provided geotechnical assessment of the site has highlighted that the area has already experienced instability. Furthermore, the response fails to differentiate between short term shallow infiltration rates from rainfall events and the potential to continually saturate ground from a disposal field.

- The point about rainfall intensity far exceeding water application rates is valid.
- Effluent Design – 1.5mm per day = 46.5mm per month. Rainfall, see summary <https://figure.nz/chart/5luPMt4ZwD9Sdkf7-aM8MOVf4lsUXpmtc>, on average exceeds this figure every month.
- The statement is not contradictory. Refer to the no build zones and the observed shallow instability's on the plan. The areas of observed shallow instability are/were significantly steeper than 35%, as shown by closer spaced contours. CGW have been quite conservative with the no-build zones around these shallow instability areas ... and 'no build' does not mean ... 'no wastewater disposal'.

From: Keni-Duke Hetet <kd@wakagroup.co.nz>

Sent: Tuesday, 3 March 2020 2:07 PM

To: courtenay isherwood <csisherwood@hotmail.com>

Subject: Re: Statement from Waka Group Limited for Isherwood Consultants Limited

Hey mate please find attached.

On Tue, Mar 3, 2020 at 1:58 PM courtenay isherwood <csisherwood@hotmail.com> wrote:

Any luck mate?

Courtenay Isherwood

Director

Isherwood Consultants Limited

021 066 3357

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Sent from [Mail](#) for Windows 10

From: [Keni-Duke Hetet](#)

Sent: Tuesday, 3 March 2020 10:49 AM

To: [courtenay isherwood](#)

Subject: Re: Statement from Waka Group Limited for Isherwood Consultants Limited

Hey courtenay I thought I sent them? I'll check when I get back to the office

On Tuesday, March 3, 2020, courtenay isherwood <csisherwood@hotmail.com> wrote:

Hey Keni how you getting on with the plan and cross sections?

Cheers

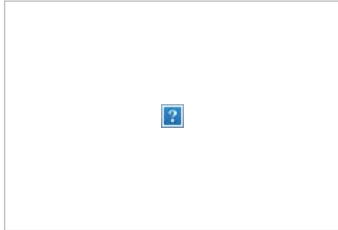
Courtenay Isherwood

Director

Isherwood Consultants Limited

021 066 3357

<https://www.facebook.com/ResourceConsents/>



Sent from [Mail](#) for Windows 10

From: [Keni-Duke Hetet](#)

Sent: Thursday, 27 February 2020 3:49 PM

To: [courtenay isherwood](#)

Cc: info@wakagroup.co.nz; [Chris Phillips](#)

Subject: Re: Statement from Waka Group Limited for Isherwood Consultants Limited

Hey Court I'll call you soon as I'm picking this up for Chris cheers.

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