

ASD

Atkinson Survey and Designs

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Department of Environmental Affairs

To whom it may concern

HONEYBUSH INVESTMENTS DAM WITTE DRIFT FARM 306 PORTION 7

We were appointed to investigate the possibility of a 50 000m³ dam on the abovementioned property. We advised the client that will not be possible and we agreed on a proximate volume around 33 500m³. There was an existing dam on this exact position.

We commenced the construction under the General authorisation that we can construct an out of stream dam not larger than 50 000m³ and smaller than 10Ha and with a maximum wall height of less than 5m. The progress was constantly monitored by myself to ensure that the parameters were met. Attached you will find the design plan combined with the natural contours of the area. We needed to spoil a few m³ of topsoil and some wet material coming out of the basin this was spoiled on the northern side of the dam wall this terrace will be used to house the solar panels that is needed for the pump to supply irrigation. This was done to prevent it sticking out on the horizon.

The total area used for this surface water is 12Ha on the north west and 5Ha on the opposite side of the dam the surface area of the dam is 1Ha this means that the total area is 18 Ha. The annual rainfall is around 700 -800mm per year. We are basing the run off on 30 % per year which should fill the dam. The pattern of rainfall is also important the intensity of rain per hour plays a big role in the run off that we will get. There were existing artificial contours which is excluded in the definition of a water course. We did remake some of the contours.

Attached please find Cape E-prac interpretation of the above.

If you have any further questions please contact me.

Kind regards

Allan Atkinson

