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**From:** Meridian  
**Sent:** Monday, 22 November 2021 4:53 pm  
**To:** EA; S9(2)(a)  
**Subject:** RE: [EXTERNAL] RE: 20210812\_DOASA\_Simulation\_2016\_2021\_4000iter

Ahhh! Knowing that I was looking at the right thing was the nudge I needed to work out that the file names are indexed by week.

Thanks!

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**From:** S9(2)(a)  
**Sent:** Monday, 22 November 2021 4:47 pm  
**To:** S9(2)(a); S9(2)(a)  
**Subject:** RE: [EXTERNAL] RE: 20210812\_DOASA\_Simulation\_2016\_2021\_4000iter

Hi S9(2)(a),  
Your assumptions are correct. The water values (curve) files, which are used as "dictionary", are in .../WaterValues folder  
Cheers  
S9(2)(a)

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**From:** S9(2)(a)  
**Sent:** Monday, 22 November 2021 3:04 pm  
**To:** S9(2)(a); S9(2)(a)  
**Subject:** RE: [EXTERNAL] RE: 20210812\_DOASA\_Simulation\_2016\_2021\_4000iter

Hi S9(2)(a),

[https://emi.ea.govt.nz/Wholesale/Datasets/AdditionalInformation/SupportingInformationAndAnalysis/2021/2021\\_1115\\_WaterValuesFor2016To2021CompetitionReview/20210812\\_DOASA\\_Simulation\\_2016\\_2021\\_4000iter/Estimated\\_H2O\\_Marginal\\_Values/NZ\\_marginal\\_H2O\\_value.csv](https://emi.ea.govt.nz/Wholesale/Datasets/AdditionalInformation/SupportingInformationAndAnalysis/2021/2021_1115_WaterValuesFor2016To2021CompetitionReview/20210812_DOASA_Simulation_2016_2021_4000iter/Estimated_H2O_Marginal_Values/NZ_marginal_H2O_value.csv)

This has the "looked up water values", it has the two look up points then a linear interpolation.

And I assume the dictionary that it is looking up is one of the files in:

[https://emi.ea.govt.nz/Wholesale/Datasets/AdditionalInformation/SupportingInformationAndAnalysis/2021/2021\\_1115\\_WaterValuesFor2016To2021CompetitionReview/20210812\\_DOASA\\_Simulation\\_2016\\_2021\\_4000iter/WaterValues](https://emi.ea.govt.nz/Wholesale/Datasets/AdditionalInformation/SupportingInformationAndAnalysis/2021/2021_1115_WaterValuesFor2016To2021CompetitionReview/20210812_DOASA_Simulation_2016_2021_4000iter/WaterValues)

My assumptions are that DOASA creates a water value file, tries it out, creates a score, then tries a different file and converges on the highest score file, then each day's storage is looked up in that 'best water value file'. I could be completely wrong there.

Ngā mihi,

S9(2)(a)

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**From:** S9(2)(a)  
**Sent:** Monday, 22 November 2021 2:53 pm  
**To:** S9(2)(a)  
**Cc:** S9(2)(a)  
**Subject:** [EXTERNAL] RE: 20210812\_DOASA\_Simulation\_2016\_2021\_4000iter

Hi S9(2)(a),

Can you please clarify which data/folder you are looking at?

Cheers

S9(2)(a)

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From: S9(2)(a)

Sent: Monday, 22 November 2021 2:14 pm

To: S9(2)(a)

Subject: FW: 20210812\_DOASA\_Simulation\_2016\_2021\_4000iter

Hey S9(2)(a),

Can you answer S9(2)(a)'s question below please?

Thanks

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From: S9(2)(a)

Sent: Monday, 22 November 2021 2:11 pm

To: S9(2)(a)

Subject: 20210812\_DOASA\_Simulation\_2016\_2021\_4000iter

Hi S9(2)(a),

I've been looking over the DOASA data up on EMI and have a question regarding the marginal H2O values in 20210812\_DOASA\_Simulation\_2016\_2021\_4000iter.

While the reservoir GWh volumes for each week match those in the marginal H2O file the storage energy to water value doesn't seem to match the first or last files in the water values folder.

I assume that there is a water value surface (look up table) that is being used to create the marginal H2O file and I'd be keen to get my hands on it so that I can run some analysis.

If you could point me in the right direction that would be great. If its not your area I can pass it to Sam on my end and he can send the request through the more formal channels.

Ngā mihi,

S9(2)(a)

S9(2)(a) – Systems Modeller

Meridian Energy Limited

Level 2, 55 Lady Elizabeth Lane, PO Box 10840

Wellington 6143, New Zealand

M. S9(2)(a)



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