

QUEENSLAND FLOODS COMMISSION OF INQUIRY

Matters concerning the operation of
Wivenhoe and Somerset Dams

Tuesday, 29 March 2011 at 3.00pm

At level 30, 400 George Street, Brisbane, Qld

Interview conducted by: Ms Lisa Hendy and
Ms Susan Hedge

Private interview of John Tibaldi pursuant to sections of
the Act

QFCI

Date: 15/4/11

Exhibit Number: 55. Ah

1 MS HENDY: This is Lisa Hendy. I'm a Principal Lawyer
2 with the Queensland Floods Commission of Inquiry. I'm
3 interviewing Mr John Tibaldi pursuant to a requirement to
4 attend today at the Commission's offices, and I also have
5 with me Susan Hedge who's a Commission lawyer and I'll just
6 ask everyone else in the room, apart from our stenographer,
7 to identify themselves please.

8
9 MR TIBALDI: My name is John Tibaldi, engineer with
10 Seqwater.

11
12 MR O'DONNELL: Brian O'Donnell, counsel for Seqwater.

13
14 MR ILOTT: Michael Ilott, solicitor from Allens solicitors
15 for Seqwater.

16
17 MR POMERENKE: Adam Pomerence, counsel for Seqwater.

18
19 MS HEDGE: Perhaps I should just say I'm Susan Hedge so
20 that the voice. Thanks.

21
22 <JOHN TIBALDI, interviewed:

23
24 MS HENDY: Q. Mr Tibaldi, just so you know the plan today
25 is just to run through your statement and just obtain some
26 clarification on a few points and a bit more information
27 and then probably run through the event log and some of the
28 report - when I refer to the report I mean the report in
29 relation to flooding from Wivenhoe and Somerset dam dated 2
30 March 2011. Just commencing with your statement, I just
31 wanted to get a little bit more background information from
32 you about your present position at Seqwater as principal
33 engineer of dam safety. I note that on page 2 of your
34 statement you've listed some of the aspects of your role.
35 I was wondering if you could just give me a bit more
36 content in relation to those roles. For example, the first
37 one is the establishment and management of Seqwater's dam
38 safety management program. Can you just tell me a bit more
39 about what that involves?

40 A. Sure. Well, Seqwater owns 25 referable dams that are
41 referable under the Queensland Water Supply Act 2008, and
42 once a dam's referable under the Act, there's certain
43 conditions that are issued by the State that dictate how
44 the dam needs to be managed, and my role is about making
45 sure that Seqwater complies with those conditions.

46
47 Q. And then you have the management of Seqwater's

1 hydrologic and hydrographic units?
2 A. That's right. Our hydrographic unit, what they're
3 about is that in our dam catchments we have rainfall
4 stations and stream flow stations that record rainfall, not
5 just during flood events but at all times, and the same
6 with stream flow. They're used for different purposes,
7 associated with resource operations reporting but also just
8 in association with the way we manage the dams and the
9 associated infrastructure and we have a unit of - it's only
10 two people - that I guess do the maintenance work
11 associated with ensuring that that network runs and they're
12 supported by Roadtech, which is a division of Main Roads,
13 some people in that, we employ them under contract to
14 assist our hydrographic people. The hydrology people,
15 they're about - I guess the hydrographic unit is about
16 gathering the data and then the hydrologists are about
17 analysing that data and making reports on the data in terms
18 of how much rainfall might occur or what's occurring in the
19 streams, that sort of thing.
20
21 Q. And then you've got the management of the preparation
22 of resource operation plan reports and I have some?
23 A. Okay.
24
25 Q. So you're just really coordinating that within
26 Seqwater, are you?
27 A. The people that are responsible for that, there's a
28 team of two ladies that the data gets sent to them, the
29 data that's required for reports from the various parts of
30 Seqwater, depending on whether it's water quality data or
31 water quantity data, and they compile the reports and those
32 two ladies report to me.
33
34 Q. And then you're involved in the management of
35 Seqwater's seismic monitoring unit?
36 A. Yes.
37
38 Q. Is that connected with dam safety, is it?
39 A. Yes, it is. If earth tremors occur they can impact
40 the structural safety of dams, so we do do seismic
41 monitoring, but also Seqwater has a bit of a role in terms
42 of the State wide seismic network. Yes.
43
44 Q. Now I understand part of your role is to do with the
45 staffing of the Flood Operation Centre. Are you involved
46 in training and staffing for the Flood Operations Centre at
47 all?

1 A. Not the Flood Operations Centre. I don't do staffing
2 for that.
3
4 Q. No. What about any of the training packages for that
5 or training any of the new staff?
6 A. Not for the Flood Operations Centre. That wouldn't
7 normally be done by me.
8
9 Q. What about the dam operators?
10 A. I do do training for the dam operators for flood
11 operations, yes.
12
13 Q. Any other training of anyone else for flood
14 operations?
15 A. No, it's only the dam operators.
16
17 Q. So the training for the Flood Operations Centre is run
18 by SunWater, is it?
19 A. Well, the training is provided by I guess the senior
20 flood operations engineers. I'm not totally familiar with
21 the contract arrangements, what the wording of the contract
22 is.
23
24 Q. No, that's all right. So you're not involved in it.
25 It's just that I need to clarify?
26 A. No, I haven't given any training that I can recall to
27 either data collectors or --
28
29 Q. And when you say that you're involved in relation to
30 the training for the dam operators is that - that's part of
31 your day job, as it were?
32 A. Yes.
33
34 Q. So you would run all the standard induction type
35 programs for dam operators and all the normal training
36 programs?
37 A. Well, there's more aspects to dam operations than just
38 flood operations.
39
40 Q. Floods, yes.
41 A. So I run some training courses to do with the
42 operator's responsibilities associated with dam
43 surveillance and also emergency action plan training.
44
45 Q. Have you ever played any role in relation to the
46 development of training at the Flood Operations Centre in
47 your past roles at all?

1 A. You're saying - so that's not training for the dam
2 operators, that's training at the centre?
3
4 Q. For anyone else?
5 A. No.
6
7 Q. At page 4 of your statement at paragraph 7 you mention
8 that "prior to 2007 I gained considerable site experience
9 in the operation of gated dams during flood events
10 including at Wivenhoe dam". In what capacity was that,
11 John?
12 A. Well, in that position - a position that I think is
13 referred to in my statement.
14
15 Q. Yes?
16 A. Which would be from 1995 to 2006, I was the operations
17 manager at SunWater. That's on page 2, paragraph (d) of
18 the statement. And the first dot point under that is
19 marked one, are the management that include the management
20 and the operation and maintenance of 13 dams, seven of
21 which had gated spillways. So I guess I was responsible
22 for ensuring that the operators were sufficiently properly
23 trained to operate the dams during flood events and I guess
24 had there been an issue during a flood event with the
25 operation of the dam, the responsibility of that would have
26 come back to me in that role.
27
28 Q. So at that time was Wivenhoe owned by SunWater?
29 A. No. Wivenhoe at that time was owned by the old
30 Seqwater, but SunWater operated Wivenhoe under contract to
31 that organisation.
32
33 Q. Did you keep any - and I'm just moving on to the
34 operations of the Flood Operations Centre during the
35 January 2011 flood event. Did you keep any record of times
36 that you were present in the Flood Operations Centre apart
37 from times that you were rostered on?
38 A. No.
39
40 Q. At paragraph 15 you speak about two of the engineers
41 being designated as senior flood operations engineers and
42 you say that "the senior flood operations engineers are
43 responsible for, amongst other things, setting the overall
44 strategy for management of the flood event in accordance
45 with the objectives set out in the approved manual of
46 operational procedures for flood mitigation". Those
47 people, and as we know, engineer 1 and engineer 3, that's

1 Mr Ayre and Mr Ruffini, I'm just curious because the way
2 that things turned out with the roster you were actually
3 rostered on with Mr Malone and the two who were designated
4 as senior floor operations engineers were rostered on
5 together. Did that have any - the way that rostering was
6 done have any effect on the strategy or discussions about
7 strategies?

8 A. No, not in my opinion.

9
10 Q. In relation to the flood event report, were you the
11 primary author of that?

12 A. I drafted - I did the initial drafting for all
13 sections, apart from I think 5 to 8, based on discussions I
14 had and information I gathered from the other guys. Yes, I
15 didn't have a big input into the appendices.

16
17 Q. Who had the main input into those?

18 A. It varied. I mean, a lot of information is just
19 information that existed, like say for example, the
20 directives or situation reports or technical, so they were
21 just gathered. I guess the main - I guess most of it's in
22 that category. It's the appendices consist of information
23 that existed and we just collated and put into the
24 appendices.

25
26 Q. Who selected what material was to be included and not
27 included in the appendices?

28 A. Well, I suppose like any report, you make a decision
29 as to what a person who's reading the report would want to
30 see to read the report, and we would have I suppose
31 discussed that amongst ourselves and made decisions about
32 what goes in there.

33
34 Q. At the bottom of page 5 of your statement you refer to
35 an error in the flood event report in the event summary at
36 page 22 and that's in relation to the conversation between
37 engineer 1 and dam safety regulator. You've said that you
38 weren't a party to that conversation. Were you made aware
39 of it at the time?

40 A. No, I wasn't in the room at that time. I was at home.

41
42 Q. Was it discussed with you soon afterwards?

43 A. Well, that would have been discussed when I came on to
44 shift that morning. So that occurred at 9pm on Monday, 10
45 January, and I think I started my shift around about -
46 between 6.30 and 7 on the Tuesday morning. So that's when
47 I would have first heard of that conversation.

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Q. Was it a conversation that was forecast before you went off the shift the night before?

A. No, I can't recall that being discussed the previous day that they would contact the regulator about that matter.

Q. I just wanted to speak to you about page 9 of your statement, I'll start at page 8 where you start talking about strategy W4. When I spoke to you earlier about the training, I guess have you ever been involved in a simulation or training events where there was a W4 type situation?

A. I haven't been involved in a specific training event associated with W4 but I have run models where W4's invoked.

Q. And is that in the course of your normal work in relation to dam safety?

A. Some would be in the course of that work, other would be in when the manual review occurred in 2009. An important part of that review was to have a look at the modelling under the - look at a whole range of design storms and see how applying the rules in the manual to those design storms, what result that would produce in terms of outflows from the dam.

Q. So just on the topic of that review, were you - I guess were you the project leader in relation to that review or was there someone else that took that role?

A. We're preparing - like I think - I've got this statement and then you've asked another 10 questions about the manual and specifically about that review, so we're working on that at the moment. I think that has to be in Friday, so I mean all the detail will be coming.

Q. Okay.

A. But just to answer your question about was I the project leader, I did the drafting for the review, but I guess being the least experienced person in terms of the the Brisbane River and the manual, I was taking information from the more experienced people and they would discuss different issues and then draft that into the report. That was the process.

Q. And was it - it was prior to that that you - was it you and Mr Malone did that interactive, the targeting?

1. A. That was part of the manual revision.
2
3 Q. And were there other studies done at that time?
4 A. No. That would have - I mean, the changes in 2010
5 weren't extensive so, no, that would have been the only
6 specific study that I can recall that was done at that time
7 for the manual review.
8
9 MS HENDY: Susan is just going to leave the room just for
10 a moment to sort out an administrative matter?
11 A. Okay.
12
13 Q. Just going to page 9, you talk there about some of the
14 issues with rainfall across a catchment as large as the one
15 involving Wivenhoe and Somerset. One of the issues I guess
16 that's been ventilated in the press, for want of a better
17 word, is this issue about the intense rainfall over
18 Wivenhoe lake on that day that led to very rapid rises in
19 the lake and there's been some suggestion that - I guess -
20 well, the way I'd interpret it that that's been sort of
21 invented down the track and I was just interested in what
22 your methodology has been in relation to the calculations
23 that have been produced in terms of the estimation of that
24 rainfall?
25 A. Okay.
26
27 Q. That very intense rainfall where there were no gauges?
28 A. Yes, I know what you're referring to. I was just
29 considering the question. Well, I mean, we know that the
30 lake - during that time we know that the lake was rising
31 rapidly, so the only thing that could produce a rise like
32 that is rainfall. It's a similar situation to I guess the
33 previous day and the flooding at Grantham where obviously
34 there's a large flow of water but it's not necessarily
35 recorded in the rain gauges, but you know it must be rain.
36 It can't be anything else. So I guess how a hydrologist -
37 and I'm not a hydrologist - might model that rain is look
38 at - and we've stated this in the report I think. I can
39 probably refer you to the page. I'll find it. Here we go.
40 Firstly on page 85 there's some explanation about that
41 particular issue that you're referring to.
42
43 Q. The gauge boards?
44 A. The gauge boards and the discrepancy between the gauge
45 boards and the automatic recorder. Then in section 8.9 it
46 talks about specifically you know that period of time and
47 perhaps I refer you to page 147 and the paragraph under the

1 graph there and what it's saying - so the paragraph above
2 says that - paragraphs above talk about these rapid rises
3 and then we're saying, well, you know, we know these rises
4 were caused by rainfall and in order to get our models to
5 show those sort of rises, we had to add some additional
6 rainfall. So that was the only way we could do it, and I
7 guess those three paragraphs under the graph there on page
8 147 - I can read that out - explain the process for that.
9

10 Q. So who actually did that interpretation? Was that Mr
11 Malone?

12 A. It was, yes.
13

14 Q. I guess I should ask him. Just for the record, Susan
15 Hedges reentered the room. So in relation to paragraph 45
16 of your statement you talk about the margin of error in
17 relation to prediction of flood models based on recorded
18 actual rainfall probably being in the order of plus or
19 minus 5 to 10 per cent. Obviously I'm not a hydrologist or
20 an engineer. Just from the modelling that we've seen
21 obviously there's just the one line on it, but is that just
22 something that's taken for granted when you're looking at
23 the models with predicted rainfall and without predicted
24 rainfall that you factor that in automatically?

25 A. Well, what I think - just separating first off the
26 model with looking at just what rain's fallen and the rain
27 on the ground, and I guess first off just thinking what the
28 model is trying to do and it's trying to look at a drop of
29 rain that might have fallen right at the top of the
30 catchment and work out how long that's going to take to get
31 into the dam, and I suppose just notionally people would
32 say that you could never model that exactly. You're trying
33 to model drops of rain and work out - well how long is it
34 going to take for all those drops to flow into the dam and
35 you think about the rainfall over the 7,000 square
36 kilometre catchment it's patchy. It's not uniform. So
37 when you think about what the model is trying to do you
38 must think that, well, there must be some error in there.
39 It can't perfectly mirror or predict the actual situation.
40 So there's got to be some sort of error in there and I
41 guess that 5 to 10 per cent has got - I guess my experience
42 of what you might expect with that error - when you look at
43 the line on the graphs, that's just the line that the model
44 spits out. It just spits out one line but you could just
45 as easily make it if you wanted to spit out a thick line
46 that sort of gave you maybe the bottom band and the upper
47 band. Again I'm not a modeller. That's not my background,

1 and the other three guys are but I can still run models and
2 understand I suppose what's happening. The other thing I'd
3 say that the accuracy of models, like at the start of an
4 event where you're trying to understand the catchment
5 conditions there'll probably be a higher degree of
6 uncertainty but as the event moves on that degree of
7 uncertainty becomes less but it's always still there
8 because you don't know how the rain's falling. It's just
9 there. You can't avoid that and that's with not just these
10 models but every sort of hydrological model that's
11 operating around the world.
12

13 Q. So when you say at paragraph 45, "The results of flood
14 models have to be interpreted with this in mind, especially
15 when making decisions as important as transitioning to
16 strategy W4", are you saying that you would normally err on
17 the side of - I just don't quite understand?

18 A. Yes.

19
20 Q. You go on to say you'd probably do a couple of model
21 runs?

22 A. Yes. No, sorry. Thank you. The point I'm trying to
23 make there I guess is that there's certain decisions that
24 you make when you're operating the dam streaming event that
25 you know are going to potentially put water over habitable
26 floors and if you're going at any time to make that
27 decision, I guess - well speaking for myself, I tend to err
28 on the side of, well, just making sure you have to do it
29 before you do it because you can't take it back. Once
30 you've decided that you're going to flood properties, well,
31 it's done. You can't say, oops. The rain that we thought
32 might occur didn't occur and we didn't have to flood those
33 properties. Once you make the decision to flood them it's
34 too late, they're going to be flooded. So I suppose the
35 point I'm making is that if you're going to make a decision
36 like that you want to be very certain of your figures and a
37 model run showing that you just might touch EL74 and might
38 just go into W4 that wouldn't be sufficient for me to -
39 particularly at that time, the dam level was well below
40 EL74 - that wouldn't be sufficient for me to invoke W4
41 because once you invoke W4 there's no turning back. You've
42 got to increase the outflows until you stop - until you
43 stop the rises, so you are going to flood properties, so
44 you need to make sure that there's no other course of
45 action that you can't hold the flood in the dam.
46

47 Q. Was that an approach that was shared with the other

1 engineers?
2 A. I believe so.
3
4 Q. No one voiced a different opinion, particularly about
5 the 74?
6 A. Whether we should go to W4 at 8 o'clock on the 11th,
7 no, I haven't heard anyone voice an opinion that opposes
8 that.
9
10 Q. At page 10 of your statement you run through I guess
11 the progression on the 9th of January, from paragraph 49
12 onwards?
13 A. Yes.
14
15 Q. And you mention in paragraph 50 that the first time
16 any model run, excluding forecast, predicted that the level
17 of Wivenhoe dam would exceed 74 metres AHD was run 35
18 conducted at 4am on Tuesday, 11 January, and I think you
19 wouldn't have commenced duty until about 7 o'clock on that
20 day or thereabouts?
21 A. Yes, I haven't got the exact time but I believe I
22 entered the room at around 6.30.
23
24 Q. About 7am. Righto. So at that stage do you remember
25 what the nature of the discussion was? Was there a shift
26 hand over?
27 A. There was a shift hand over and the - sorry, I just
28 want to refresh my memory. There was a shift hand over and
29 there was a discussion about the conversation that occurred
30 with the dam safety regulator the previous night, and I
31 guess the feeling was that we were on the edge of going to
32 W4. We were - I guess - I'm just trying to think of the
33 right word - maybe hopeful that we wouldn't have to
34 transition but, you know, some heavy rain had commenced in
35 the catchment and it was looking a possibility.
36
37 Q. And when you say - had you received information about
38 rainfall overnight in the catchment?
39 A. The systems are such that when you enter the room -
40 they certainly talked about rainfall overnight but when you
41 enter the room you can log on to a computer that shows -
42 you can have a choice of rainfall in the last hour, two
43 hours, three hours, 12 hours, 24 hours, so you can fairly -
44 and I guess it shows you a catchment average, so you can
45 quickly have a look at that and that's part of hand over
46 generally. You'd come in and just see what the rain is
47 doing. I think some of the maps like, for example, those

1 maps say on page 72 of the report typically you can put up
2 a map like that and it might show you the rain at different
3 points but you can look at really any time period you want,
4 so you can quickly look at the last hour, last two hours,
5 last three hours, and see what's going on.
6

7 Q. I just wanted to take you to page 13 where you talk
8 about a conference call with Brisbane City Council. This
9 is at paragraph 67. This is about this issue about the
10 damage thresholds. Who was it at Brisbane City Council
11 that you spoke with?

12 A. My recollection is that that was Mr Ken Morris who I
13 believe is their principal engineer, water and environment.
14

15 Q. And what were his - what concerns did he express
16 during that call?

17 A. I think I've written about that in the flood event
18 summary. So just refer you to the flood event summary page
19 19. Under Background, the third paragraph down, and just
20 the last sentence of that paragraph, this approach was -
21 "following discussions with Brisbane City Council that
22 advised a flow of 3,500 cumecs at Moggill would fully
23 submerge 322 properties and impact 7,000 properties". So
24 that's the information that I recall was provided by that
25 telephone conversation.
26

27 Q. And you mention in your statement that "for five hours
28 after this call we attempted to accommodate the BCC's
29 concerns by maintaining the flow at Moggill at or below
30 3,500 cumecs in accordance with Strategy W3 that requires
31 protecting urban areas from inundation". Did your fellow
32 flood operations engineers, did they have the same surprise
33 at hearing about this change in the damage levels from
34 Brisbane City Council?

35 A. I believe they did, yes.
36

37 Q. And you've mentioned that the principal engineer,
38 water and environment - I take it that's Mr Morris - he
39 attended that meeting about the latest revision of the
40 flood mitigation manual?

41 A. That's correct, yes.
42

43 Q. And that has stated within it that 4,000 cumecs, is
44 that - it's clearly included in there in relation to the
45 strategies, isn't it?

46 A. Well, the 4,000 cumecs is listed in the manual and
47 control copies of the manual have gone to the councils.

1
2 Q. Yes?
3 A. When I gave the presentation at that meeting on the
4 manual update, I think it's likely I would have discussed
5 or mentioned the 4,000 but I cannot recall specific
6 discussions on the threshold of damage. I just cannot
7 recall.
8
9 Q. But was there any change to the 4,000 from the
10 previous version of the manual?
11 A. No.
12
13 Q. So how did you attempt to accommodate the Brisbane
14 City Council's concerns?
15 A. Well, I guess as we discussed before, knowing that a
16 flow of 3,500 cumecs at Moggill would potentially put water
17 over the floors, habitable floors, we - again once you make
18 the decision to exceed that you can't go back because even
19 if you try and reduce, once the floors have been inundated
20 the damage has been done. So we attempted to hold the
21 level. We did some modelling and I'd I guess refer you to
22 I guess the model run at that period. So that would have
23 been at 9am on the 10th of January and again the model
24 results are on page 19 and you can see we did a model run I
25 guess seeing if we could maintain - you know, not exceed a
26 flow of 3,500 at Moggill. So if you look in the column
27 titled Rainfall and Model Results, and firstly at the last
28 dot point, so the estimated peak flow at Moggill, including
29 Wivenhoe releases, was 3,420, so we were saying, well, can
30 we stay under the 3,500. And then I refer you to the third
31 dot point there in that column that says "estimated peak
32 Wivenhoe dam level of 72.9". So that the model was showing
33 us at that time that without further significant rain it
34 was possible to keep the flow at Moggill maybe under 3,500
35 and not impact those 322 properties that we'd been told
36 about.
37
38 Q. So by 2.30pm that changed?
39 A. Yes, that's correct. Probably the two things to look
40 at here would be the situation reports, which are --
41
42 MS HEDGE: In the front of appendix 2.
43
44 MR TIBALDI: Firstly, there's a situation report on page
45 28 of appendix 2 that was issued at 12.16 on the Monday,
46 and at that time we still believed that with the flow of
47 3,500 at Moggill, we could keep it 3,500 at Moggill and as

1 you can see in page 29, the second paragraph, we were
2 saying that the Wivenhoe peak would still be under 74. We
3 were estimating around 73.5. Must have had an updated
4 model run at that time which should appear in appendix A.
5 It's probably an additional model run which we could
6 provide you. It possibly isn't in appendix A. No, there's
7 just the 9 o'clock one and the 3 o'clock one. We didn't
8 put every model run in because it was just getting too big
9 but we could provide that if you wished that. So then at -
10 so we made the decision at around 9.30, between 9 and 9.30.
11 I think if you look at the event log we discussed it at
12 about 8.30 and we tried to ring the council at 8.30 to talk
13 about it and then they rang us back at 9 and that's when I
14 guess we formalised the decision but it was based on a
15 model run done at 9 o'clock. So at 12 o'clock it was still
16 looking okay and then - now there's a situation report that
17 I understand from Michael that you've been provided but it
18 didn't appear in the report. It was just an oversight. It
19 was a situation report that was issued at 3pm that day on
20 the 10th.

21
22 MR ILOTT: If you've got Mr Malone's statement.

23
24 MS HENDY: Yes.

25
26 MR ILOTT: It's exhibit TM-5 to Mr Malone's statement,
27 page 24.

28
29 MS HENDY: Q. So there's one sent at 2.58pm?

30 A. Yes, that's the one I'm referring to.

31
32 Q. That is this one. Even though the heading - the
33 heading on this one is still situation report at 12 on
34 Monday, 10 January and 11. Looks like it was done it - it
35 was sent at 2.58pm?

36 A. And I believe the text is different.

37
38 Q. Have any other situation reports been identified that
39 didn't make it into the report?

40 A. I don't believe so.

41
42 Q. There's just that one?

43 A. It was just that one. I guess Terry remembered
44 sending it and it was - you know, it can be validated
45 because it's gone to that distribution list but when we
46 were looking for it the other day I don't think he could
47 find it in the report and then we found it. I think what

1 confused us with this particular one is because the subject
2 was the same.
3
4 Q. Yes.
5 A. Which was an error and I think that's maybe why it got
6 missed out.
7
8 Q. And at that stage obviously you've gone up to the
9 4,000?
10 A. That's right. Just under rainfall, the first sentence
11 there, "significant rainfall has fallen in the Wivenhoe
12 catchment over the last three hours with falls exceeding a
13 hundred millimetres", and I guess that pushed us over the
14 edge that if we had tried to maintain a flow at Moggill of
15 3,500, we definitely would have exceeded EL74 but by
16 increasing the flow at Moggill to 4,000 cumecs we could
17 still say under EL74. We were predicting --
18
19 Q. 73.8?
20 A. That's what the situation report said. I was just
21 going to have a look at what the model here says. The
22 model actually in here says 73.6 but it was certainly under
23 74. We felt we could - we felt there was still an
24 opportunity not to transition to W4.
25
26 MS HENDY: We might just have a break for 10 minutes
27 because Barrie needs to have a break about every hour, so
28 we'll just recommence in 10 minutes.
29
30 **SHORT ADJOURNMENT**
31
32 MS HENDY: We might recommence.
33
34 Q. John, I wanted to take you now to the event log if I
35 can find it.
36
37 MR ILOTT: M.
38
39 MS HENDY: Q. Sorry, I had another hand marked copy.
40 I've put it somewhere between my interview with Mr Ruffini
41 and here. It should be in this folder. Just remind me
42 again, you're engineer 2?
43 A. Four.
44
45 Q. The first thing in that log I wanted to take you to
46 was an entry for 3.30pm on Sunday, 9 January. It's on page
47 82. Can you tell me anything more about what was discussed

1 at that meeting or the process for that meeting?
2 A. Well, the process for the meeting was that engineer 1
3 I guess just wanted to have a bit of a discussion about
4 where the event might head and that's a normal thing, just
5 have it collectively so we all had a similar understanding
6 as to where - what was occurring. As a result of that he
7 called a meeting on that Sunday. I had returned from leave
8 early to do a shift the previous night, so I'd finished at
9 7am, and I just didn't - I was still unpacking from the
10 holidays, so I didn't wish to drive into town, so I rang in
11 and I can't recall a lot about the conversation. I
12 certainly can't recall the numbers that are listed - that
13 are shown there in the flood event log. I have nothing to
14 say that those numbers aren't correct.
15
16 Q. Just moving on to the 11th of January, and I think
17 you've spoken already about model runs that were done early
18 on that date?
19 A. Yes.
20
21 Q. Now these conversations from about 7.35 onwards on -
22 this is page 89 of the flood event log - you were,
23 according to this event mobilisation and staffing roster in
24 the flood report you were on from 7 to 7, 7am to 7pm on the
25 11th?
26 A. That's correct.
27
28 Q. No, you're number 4, aren't you, engineer 4?
29 A. Yes.
30
31 Q. No. So on the 11th you were on from 7pm to 7am?
32
33 MS HEDGE: No, no, 7am to 7pm. He just stayed later until
34 11.
35
36 MS HENDY: And then they assisted. Sorry, I'm misreading
37 that.
38
39 MS HEDGE: He stayed late.
40 A. That's correct that day.
41
42 MS HENDY: Q. I'm just interested in the conversations
43 with BoM from 7.30am on - this is on page 89?
44 A. Yes.
45
46 Q. Was that you involved in the conversation with BoM
47 there?

1 A. I would have heard the conversation but I believe
2 engineer 2 would have led that conversation.
3
4 Q. And was he, of the two of you was he the person that
5 had more contact with BoM?
6 A. Yes. The background to that is engineer 2 is a -
7 formerly worked for BoM, so he has familiarity with the
8 people there I guess, so if there's two of us calling in
9 it'll generally be him.
10
11 Q. And then at 7.59 you called the Seqwater CEO?
12 A. Yes.
13
14 Q. Excuse me. I'm just going to stop the interview just
15 for a moment to see if I can stop those people outside
16 from --
17
18 MS HEDGE: They're testing the door.
19
20 **SHORT ADJOURNMENT**
21
22 MS HENDY: Q. Just back to that issue about calling the
23 CEO, that was simply to advise him of the situation that
24 there'd be damaging - well floods basically reaching
25 Brisbane?
26 A. Correct. I mean at - the background is really - as
27 I've said in my statement at 7 o'clock we did the model
28 run. We just spent an hour making sure that there was no
29 other option available other than to go to W4 because it is
30 a serious step, and then by 8 o'clock we'd made the
31 decision as soon as we really - well maybe just before 8 by
32 the looks of that. Once the decision was made immediately
33 notified the CEO that that decision had been made and
34 notified a number of people there.
35
36 Q. And so the process from there was - was that - I guess
37 was the purpose of that so that he could make appropriate
38 arrangements to notify people and manage things from - was
39 there a procedure that you were supposed to - is there some
40 sort of document or policy that requires you to ring him or
41 was it just --
42 A. I don't believe anything in the manual suggests that
43 we must ring the CEO when we go to W4. I could be wrong.
44 But I guess we judged it was a prudent course of action
45 because the CEO has contact with the Chairman and other
46 people that would really - that would need to know that
47 information. So, yes, he was our first port of call once

1 the decision was made.
2
3 Q. And I take it that that had already been discussed
4 with the Bureau at 7.35?
5 A. Yes. I guess the discussion with the Bureau was
6 really just to check that our modelling results were
7 matching. We didn't want to have a situation where we were
8 making the decision to go to W4 and yet the Bureau's
9 modelling results were showing that the flows we were
10 anticipating were going to be less, so it was just the
11 confirmation. We're not required to do that but we thought
12 it was a prudent thing to do.
13
14 Q. Did you discuss the modelling with Brisbane City
15 Council or was it - they weren't doing their own modelling.
16 You were just informing them?
17 A. Yes. They don't have a model as such. My
18 understanding is the council are looking at flood levels
19 downstream of Moggill, so we wouldn't have compared models
20 with them because they don't have a model that looks at
21 flows into Wivenhoe that I'm aware of.
22
23 Q. Obviously at the same time that you're managing the
24 issues in relation to Wivenhoe, Somerset, you're dealing
25 with North Pine. Did that create issues in itself?
26 A. No, I don't believe it did. We were busy but I
27 wouldn't say we were under time pressure. I think we had
28 sufficient time to make the decisions that needed to be
29 made. I think if one - if only one engineer had been in
30 the room he would have been under time pressure but having
31 two of us there gave us sufficient resources.
32
33 Q. There's an entry for 11.04am on the 11th, "Engineer 4
34 called dam operator 7, discussed that if forecast rainfalls
35 FEWS plug likely to go". Do you recollect that
36 conversation?
37 A. I don't. I'm just wondering what the model run around
38 that time might have said. So the closest model run is
39 probably at 1pm and that's saying that including forecast
40 Wivenhoe might get to 76 which would take out a FEWS plug.
41
42 Q. And what - the effect of a FEWS plug going is that
43 about 2,000 cumecs added to the --
44 A. There'll be an uncontrolled flow of 2,000 but I don't
45 believe that would have been the purpose of that
46 conversation with the operator. If I was having a
47 discussion with the operator about FEWS plugs, I think I

1 just would have been questioning him as to was there
2 anything over in that FEWS plug area or any actions that he
3 needed to take in readiness for the possible initiation of
4 a FEWS plug. You know, he may have had tools over there or
5 what have you. But that's my recollection of the
6 conversation. It was about well if a FEWS plug - and I
7 don't know if it was at that time because I think I had a
8 few conversations with the operators, it was about, well,
9 there's a chance a FEWS plug may be initiated from an
10 on-the-ground operational point of view, is there anything
11 we need to know.
12

13 Q. And from your point of view the reason that you didn't
14 want the FEWS plug to go, what were the reasons in your
15 mind about why that shouldn't happen?

16 A. We didn't try and stop a FEWS plug going. The manual
17 requires you to have all gates fully open prior to the
18 initiation of the first FEWS plug. After that point you
19 have no control over outflows because - and if the dam
20 continues to rise because of rainfall, a FEWS plug will be
21 initiated. If you get into that situation there's nothing
22 you can do about it.
23

24 Q. At 1.26pm there's a phone call logged, "Seqwater CEO
25 calls and requested the FOC requests the BoM to consider if
26 Wivenhoe is releasing 9,000 cumecs"?

27 A. Yes.
28

29 Q. Do you recall what that was about?

30 A. Yes, I think so. My recollection was that BoM are
31 responsible for flood warnings in the Brisbane River
32 downstream of Wivenhoe, so I think my recollection is the
33 CEO wanted to get a feel for how big the flood would be if
34 BoM ran their model with a Wivenhoe outflow of 9,000
35 cumecs. That would be for the purposes of emergency
36 planning. If the flood was that big what would that mean
37 in terms of evacuations and houses inundated.
38

39 Q. And then there seems to be a similar phone call at
40 3.14 where he's - the Seqwater CEO is calling to discuss
41 the proposed release of 10,000 cumecs. So is that a
42 similar thing where he's asking for modelling to be done
43 about that?

44 A. My recollection of that is that - and you would need
45 to speak to the CEO to confirm - was that in the
46 discussions that the CEO was having outside the flood
47 centre, they were again for emergency planning trying to

1 anticipate the worst case scenario, and we were advising
2 that one possible worst case scenario might be a release
3 from Wivenhoe of 10,000 cumecs, which is all the gates are
4 fully open, or near that situation, and again for the
5 purposes of emergency planning he was trying to understand
6 what that meant in terms of impacts downstream. That's my
7 recollection of those conversations.
8

9 Q. And so the following entry at 3.49 that's a conference
10 about the same worst case scenario?

11 A. I believe so. You know, I can't remember the
12 conversation but looking at the notes there I assume that
13 we would have said, if we're making releases at the range
14 of 10,000 cumecs we can say that it might be an 1893 event
15 which then gives us a bit of a feel for where the maximum
16 height of the water levels in Brisbane City.
17

18 Q. And do you remember who it was from BoM that you spoke
19 with?

20 A. Not specifically. I would guess it would either be
21 Peter Baddiley or Jimmy Stewart but who it actually was I
22 can't remember. They record all their telephone
23 conversations as you may know.
24

25 Q. Who does?

26 A. The BoM.
27

28 Q. Okay. No, I didn't appreciate that. I knew they
29 recorded the telephone calls from the public but I didn't
30 know they recorded all their conversations. Now there's a
31 telephone call at 4.46 from the Principal, Incident and
32 Emergency Management Seqwater, call to request update
33 inflow outflow of Wivenhoe dam. Who is that person at
34 Seqwater and what's their role?
35

36 A. I don't know who that is.
37

38 Q. So you don't recall that conversation. It probably
39 wasn't you?

40 A. Not - I can't recall that conversation at all.
41

42 Q. There's an entry at 5.12pm in relation to North Pine,
43 and from what we've heard there was an issue with access to
44 the controls or some difficulty for the operators there at
45 North Pine?

46 A. Yes. My understanding is they were standing in water
47 while they were operating the gates.

1 Q. So when did you become aware of that? Was it early on
2 during this event?
3 A. Well, it only happened towards the end of the event
4 when the outflows were reaching their peak.
5
6 Q. When you advised them - and I assume - is that an
7 accurate reflection of what was said, first of all I should
8 ask you?
9 A. Okay. So that must be after the peak, so the water
10 level's peaked and it's starting to fall and he's asking
11 me, well, when are we going to start closing, and I've said
12 to him - I probably asked him if it was safe to go and
13 close and my recollection is he thought it was, then I said
14 probably just to wait till the water clears that area in
15 case you have an accident and then we'll just start closing
16 down.
17
18 Q. So is that something that's been looked at by Seqwater
19 now?
20 A. Yes.
21
22 Q. On page 94 there's an entry at 8.35pm, Seqwater CEO
23 calls FOC to speak with all duty engineers on the operating
24 strategies for Wivenhoe releases. Did you have a
25 conversation - did you and the other engineers have a
26 conversation with the Seqwater CEO?
27 A. I can't recall. We may have. I guess no doubt we did
28 if it's listed there in the log. The dam was still at its
29 peak level at that time but I can't - or it might have just
30 started to fall but I can't recall a conversation.
31
32 Q. There's an entry at 9.35pm which says, "Engineer 4
33 rang to discuss the latest directive to raise Wivenhoe dam.
34 Engineer 4 suggested not raising". Can you tell me about
35 that?
36 A. What occurred there was that at around 9pm I realised
37 that I was going to be - wouldn't be able to get home for a
38 few days because of the flood that was going to come to
39 Brisbane, so I made a decision to go home and just get some
40 clothes and things so I could stay there for the next
41 several days. If you look at the directives, I think
42 they're in appendix --
43
44 MS HEDGE: I think it's 3.
45
46 MR TIBALDI: Three.
47

1 MS HEDGE: Yes, front of 3?
2 A. The front of 3. I guess look at directive on page 26,
3 that directive was signed by myself, duty engineer 4 at 9
4 o'clock, and that directive was all the gates were prior to
5 that open at 12 metres and that directive was to close the
6 gates to 11 metres, so starting to shut off. Soon after I
7 issued that directive as I said I left the room because I
8 had to go home and get some clothes. When I was out of the
9 room, the engineers redid some model results and were
10 concerned that the dam may begin to rise again if we went
11 to 11 metres, so at 9.30 they decided to open again
12 slightly to 11.5 metres. The dam operator at Wivenhoe,
13 because I'd been speaking to him during the day, he thought
14 - he didn't realise I'd left the room. He rang me just to
15 confirm that we were closing and then opening again
16 slightly. So not being in the room I just rang the
17 engineers to understand why they'd made the decision and
18 that's what the conversation was about.
19
20 Q. So it was just that you were clarifying that they'd
21 made that decision?
22 A. Yes. I just wanted to know why they'd gone open again
23 and their explanation was, look, we've looked at the
24 modelling and if we go to 11 we might - that the dam level
25 may commence to rise again. They were concerned about
26 that. And so they just opened it a little bit just to make
27 sure that before we started closing right down that we
28 wouldn't have a rise. So then if you look at 11 o'clock,
29 an hour and a half later, we went down a significant amount
30 down to 10 metres.
31
32 Q. There's an entry - I'll just check that you were on at
33 this time. On the 12th of January you were rostered from
34 7am to 7pm?
35 A. That's correct.
36
37 Q. And there's an entry at 4.20pm on the 12th. This is
38 on page 97: "BCC called FOC and had phone conference with
39 duty engineers". Who was that from Brisbane City Council,
40 do you recall?
41 A. I can't remember.
42
43 Q. Is there any other log or place that names of people
44 calling in is recorded or is it simply in this flood event
45 log?
46 A. This is the only place.
47

1 Q. That is it, okay. On 19 January at 5.10am - this is
2 page 110 - there's a phone call logged there. Can you tell
3 me a bit more about the contents of that conversation?
4 A. Okay. Well if you look at - I don't believe that
5 statement accurately reflects what was said. I don't think
6 I would have been obtaining a government view on how long
7 to maintain releases but what that's about is - if you
8 notice the entry at 5.05am when the dam operator phoned to
9 advise of erosion in the vicinity of the plunge pool.
10
11 Q. Yes?
12 A. When I was advised of that erosion and it was
13 described to me by the dam operator, I had - I was
14 concerned that it may indicate some damage to the dam. So
15 my conversation at 5.10am was to advise the CEO of that and
16 I'd say as part of that conversation we might have had some
17 discussions about the final timing of gate closure. It
18 might have been along the lines of Wednesday, the 19th, was
19 the day that we were anticipating gate closure would occur.
20 So we were anticipating final closure on that day and
21 that's what did occur, but I guess I just wanted to talk to
22 the CEO about that damage and how it may affect final
23 closure, depending on what was found when we inspected the
24 area.
25
26 Q. And was that part of your job as dam safety manager to
27 organise those inspections?
28 A. Yes. I was I guess the person best placed to do that
29 and my recollection is that I left that shift early and
30 travelled out to Wivenhoe dam with another engineer and we
31 inspected the area and the following day did diving
32 inspections and surveys and didn't find an issue of
33 concern.
34
35 Q. I just have some general questions for you about I
36 guess the response to this flood event and I guess if you
37 have a view about whether there need to be further studies
38 or investigations or inquiries, say of hydrological nature
39 or any other sort of scientific nature to sort of look at
40 the impacts of this event with a view to assessing whether
41 the manuals need to be updated?
42 A. Well, the manual - I mean the way we operated, which
43 was in accordance with the manual, produced outcomes that
44 we expected under the rules in the manual. As we've
45 written in the flood event report in the recommendations,
46 the manual requires that when you have an event of this
47 nature you undertake a review. Many issues have been

1 raised in the public about how you may operate Wivenhoe dam
2 in the future, and I think there's a lot of valid - there's
3 a lot of - valid is not the word that I meant to say.
4 There's many ways - there's an infinite number of ways that
5 Wivenhoe dam could be operated in terms of looking at the
6 balance between water supply security, flood mitigation,
7 the impact on urban areas and the impact on rural areas.
8 You can only divide up Wivenhoe's capabilities in ways that
9 can't satisfy all those four areas. The way the manual is
10 it's one way it's divided up. If we're going to look at
11 dividing it up other ways it will require extensive studies
12 to see the impacts of that. As a flood engineer I see we'd
13 have a role in providing information about how flood
14 mitigation impacts might change but other people have roles
15 in looking at forecasting and looking at water supply
16 security that we're not expert - well, I can only speak for
17 myself. I'm not expert in those areas.
18

19 Q. Mr Ruffini mentioned to us this morning, and I think
20 it's mentioned elsewhere in the material, that Seqwater is
21 in the process of upgrading the software for the Flood
22 Operations Centre. How far advanced is that program?

23 A. We have a prototype system but it uses exactly the
24 same models. We're not upgrading the models, only the
25 software platform. So instead of running on a UNIX system,
26 it runs under Windows, just easier to maintain and operate.
27

28 Q. So you don't expect it would have any significant
29 impact at all on the capacity to manage these flood events
30 at all?

31 A. No significant impact, no.
32

33 Q. Are there any other - I should ask you about the one
34 issue which has been litigated - not litigated, that's the
35 wrong word - aired in the press is this issue about whether
36 the FEWS plugs reduced the capacity of the dam. Can you
37 speak to that or do you have a view about that?

38 A. I don't understand how they would reduce the capacity
39 of the dam.
40

41 Q. All right. I should also ask you.
42

43 MS HEDGE: Should we explain the allegation? I can
44 explain the allegation.
45

46 MS HENDY: Q. You're quite well aware of what the
47 allegation is?

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A. No.

MS HEDGE: Q. The allegation is that you couldn't - that the flood operations engineers wouldn't let the water go up to 75.5 comparatively to the situation without the FEWS plugs where you would, in the allegation, let the water go right up to 80, right up to lapping at the top of the wall. That's the allegation?

A. Okay. The flood manual requires that we must have all the gates open prior to the initiation of the first FEWS plug, whatever that level is. I think you'll find that previous manuals required the same - had the same thing in terms of having all gates fully open by a certain level.

MS HENDY: Q. So it would have been a similar level you think?

A. I believe so. Could have been lower. Once all gates are fully open you have no control, so you're really just hoping that the rain stops and the water level in the dam stops rising.

Q. Apart from the construction of the saddle dam which I understand is scheduled to be completed by 2035, are there any other planned upgrades to Wivenhoe or Somerset?

A. Nothing to do with spillway capacity. We undertake comprehensive inspections of the dams every five years. The most recent reports were done in 2010. They would have recommendations for works in there. Apart from those works there wouldn't be any other substantial works planned.

Q. Unless there's anything else you want to add we'll leave it there for today. The time is about four --

MS HEDGE: Nine minutes to five.

AT 4.55PM THE INTERVIEW CONCLUDED.

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