

BRISBANE • MELBOURNE • SYDNEY



9 February 2012

Queensland Floods Commission of Inquiry
██████████ 400 George Street
BRISBANE QLD 4000

Attention: Ms Susan Hedge

Partner Paul Hardman
Direct Line ██████████
Email ██████████
Our Ref TZB:PAH:11800005

By email ██████████

Dear Ms Hedge

Queensland Floods Commission of Inquiry

We refer to the Requirement to Provide a Statement to the Commission of Inquiry issued to Mr Robert Ayre dated 25 January 2012.

We attach further documents in answer to that requirement.

These documents are extracts from a notebook maintained by Mr Ayre which he used to make a record of work related meetings.

This notebook had been inadvertently overlooked by Mr Ayre until 8 February 2012.

Yours sincerely

HOLDING REDLICH

Attachments: 2

QFCI

Date: 11/2/12 ██████████

Exhibit Number: 1147

B:1560702_1 NMW

Level 1, 300 Queen Street, Brisbane QLD 4000 GPO Box 490, Brisbane QLD 4001
██████████ ABN 15 364 527 724

www.holdingredlich.com.au

SEAWATER MEETING 3/2 @ 1000

ROWLAND,

JACK

KARRIE

/

/

SEAWATER

BOOKE

JIM

ROB D

TELM

MIKE FOSTER

TONI

CONSULT

COLIN ABEY

DRAFT REPORT.

DISCRETIONARY POWER.

REVIEW PROCESS

4 MARCH DEADLINE.

BOARD

INSURANCE ?

1 MAR

LAWYERS

COMMS

REVISIONS TO BE COMPLETED.

REPORT 28 FEB.

WATERMARK DOCS

FIRST SESSION ~ MID-NEXT WEEK.

TUESDAY AFTERNOON FOR FIRST REVIEW

TOC

ATTENDANCE SHEET

STATEMENT OF PREPAREDNESS 2010-11

1030 WEDNESDAY 9 FEB.

SEAWATER 8/2.

FISH RECOVERY? SECTION IN REPORT.

ACCOUNT OF EVENT - SATISFY MANUAL

EVENT LOG / SITUATION REPORTS
MODEL RUNS

STATEMENT OF COMPLIANCE.

ASSERTIONS IN PUBLIC AGENA? AVOID DEFENSIVE STANCE

MAP

TIMELINE?

LIST SOURCE DOCS FOR STRATEGIES SECTION?

NORTH RIVE NOT INCLUDED IN THIS REPORT.

DAM OPERATORS / STAFFING ISOLATION. (REVIEW)

GATE OPS

STATEMENT OF PREPAREDNESS

FLOOD MANUAL

WORKSHOP SESSION.

EXECUTIVE SUMMARY

21/2 PMF

* → RELATIVE TO CURRENT OF EVENT

ACTUAL VOLUME, 2.65 million ML.

2ND LAST PARA RE-WORD

STAFF / EXPERIENCE. (MF)

TABLE IN EXEC SUMMARY

CONCLUSIONS ADDED.

(%) CAPACITY

SECTION 3

RESPOND TO REQUESTS FROM COUNCIL.

SECTION 17 COMMENTARY ON WD FSC?

:- TB CONFIRMED

4 APRIL

11 MARCH 4 AM

* 2 MARCH

DRAFT FLOOD 4TH

CONSIDER MOVING

MODELLING TO IN FRONT OF EVENT SIGNIFICANCE

USE :- ANNUAL EXCEEDANCE PROBABILITY

SOMERSET.

WILNETHORPE

& COMBINED. (DAMS ONLY)

REMOVE PEAKED

EXEC SUMMARY

OBJECTIVES :- AS PER MANUAL

DAMAGE CURVES ? IN THE APPENDIX

CHARACTERISED BY ARR (LARGE & RARE) IN EXEC SUM

'EXTREMELY LARGE & RARE'

OBSERVED RECORD ?

SECTION 5 'REAL TIME DATA.'

NO DISCUSSION OF RELIABILITY OF RATING CURVES

OTHER SECTION

SECTION 6 EVENT DATA -> OPERATIONAL EVENT DATA.

NONE-EVENT DATA.

TIME PRECLUDED REFERENCE

FURTHER ASSESSMENT DONE AFTER EVENT

CATCHMENT AVERAGES (WEIGHTS)

COMMENT ? INFILL PROCESS

REFER FLOOD MANUAL

OTHER DATA SOURCES

RADAR? SECTION 7 ASSESSMENT.

UPLAND LOCATIONS IS RIDGE ON DIVIDING RANGE

DAGUVAL RANGE

JIMNA RANGE

* FOCUS ON OPERATIONAL DATA.

DESCRIBES DATA AVAILABLE & ENABLE TO BASE DESIGNS

- FIT FOR PURPOSE?

* ~~DATA~~ MODEL VALIDITY

RAA.

~ COMPARISON WITH BOM.

PAGE 26 RECEIVED ISSUE ON HEADWATER GAUGE.

SECTION 7 POST EVENT ASSESSMENT PRELIMINARY

INFERENCE.

INTERPRETATION

FULL & BACK INVESTIGATION POST-EVENT

SIGNIFICANT REVIEW MULTI-AGENCY

SECTION 8 MODELLING / VARIABILITY (MOVE)

BASEFLOW FUNCTION MORE DISCUSSION

PLOT OF BASEFLOW

MAGNITUDE OF BASEFLOW WITHIN SECOND PEAK.

2.65 ML OF 300000 ML

SOIL MOISTURE ACCOUNTING. REPORT TO REFER

LOSS MODEL REFERENCES, LOSS MODEL RELATIONSHIP.

STATEMENT RE FORECASTING.

- ~~AND~~ NOT UPDATING BASED RECORDED EVENTS

INCLUDED TOTAL RESERVOIR.

EXTRAPOLATED MODEL PARAMETERS

CHANGES OF CL RATE. \sim LOSS SIGNIFICANCE
RE 74 1893 OR 11
COMMENT OF TO 74 COMPARISON
SUBSTANTIALLY DIFFERENT TO CALIBRATION CONFIGS
IN APPROACH USED

+ RATINGS COMMENT.

* RATINGS RATIO FOR EACH SITE.

UNCERTAINTY COMMENT REGARDING EXTRAPOLATION
OF RATINGS.

* VARIATION IN KG IN DISTANCE TO SHEET.

GATE SCADA SHEETS

TABLES / PLOTS REFER SIGNIFICANCE FIGURES

SECTION 7 PRELIMINARY POST EVENT ASSESSMENT

DAULT DATA COMPARISON \div NOT POSSIBLE YET
(TO BE DONE).

RADAR IMAGES \div NOT ACCESS NO OPPORTUNITY
TO ANALYSIS YET

SUBMITTED REQUEST TO BOM

PAGE 3 CUMULATIVE TOTAL

LOSSES IN CATCHMENT FIGURES (REMOVE)

QUALITATIVE COMPARISON OF IFD 1893 1974 2011

IFD ANALYSIS

RN NERVOUS ABOUT IFD

OMITTING ^{BELOW} ~~DATA~~ 24H AND 1 IN 2000 YR.

GROWTH CURVED FOR SHORT DURATION
SPECULATIVE.

LONG DURATION QUAT

SHORT DURATION SPECULATIVE. $i_r \leq 18$ HRS
INDICATIVE ONLY

DELIVATION CRG FORCE

IN DOTTED LINES SHOWING EXTRAPOLATION

CRG FORCE CATCHMENT ESTIMATES

CATCHMENT AVE USING OPERATIONAL DATA ONLY *
CP TO EARLIER SECTIONS

* CATCHMENT ESTIMATES NB PLOTS

NOTE TOPO & SPATIAL IMPACTS

150 HETAL MAPS NOT PRODUCED

SENSITIVITY OF IFD FIELD

VOLUMES

DURATIONS OF 3 OR 4 DAY MAXIMUMS

EXISTING BODY OF DATA WHICH ARE BEING REVIEWED.

ESTIMATES WILL CHANGE WITH INCORPORATION OF DATA

CURRENT TECHNIQUES WILL CHANGE.

SECTION 7.7 FLOOD FREQUENCY

BASED EXISTING RATINGS

REMOVE FLOOD FREQUENCY

COMPARISON WITH DESIGN FLOODS

EVALUATION OF DAM SAFETY

SPECULATIVE ABOUT AEP

KEEP PLOT? QUALIFY & CONTEXT

LOWER END OF CURVE WILL BE REVISITED.

SECTION 7.9 BUDGET

BCE PLANNED DEVELOPMENT LEVEL.

INDICATIVE OF RELATIVE IMPACTS

CAVEAT PRELIMINARY ASSESSMENT TO SHOW RELATIVE
IMPACT

* TRUNCATE AT MOSCOW MILE 11
AMCR.

20110110 0500

BOM LOCKHEED FLOWS

MEETING 9.00

WHAT ISSUES NEED TO BE ADDRESSED?

- USE OF FORECASTS
- REDUCTION IN FSL
- COMMUNICATIONS

TWO TIER MESSAGES

- TECHNICAL INFORMATION re BOM/BCC
- HIGHER LEVEL STRATEGIES / RESPONSE REQMS

IPSWICH CITY COUNCIL REQMS?

HYDRAULIC MODELING ?!

MEDIA COMMS THRU SEAWATER / GRID MANAGER