LGOIMA request WRC flood modelling

Information request: I am a stakeholder in TCDC Whangamata stormwater improvement project

I am seeking the 1%AEP flood modelling for the Wentworth and Otahu Rivers and Whangamata Harbour catchments. I see on the portal only Waipa and Waikato Rivers modelling is available:

1. I am told the 1%AEP which I cannot find in E1 Surface Water in the building code (2%AEP maximum) is the following: a rainfall event of **374mm in 24-hours**. The Coromandel has not experienced any rainfall of this magnitude. During Cyclone Gabriel, we experienced 118mm of rain during the 24-hours of Monday 13th February 2023 (Whitianga figures as no such monitoring in Whangamata that we are aware of), with the total over the cyclone about 180mm over three days.
   Request: Is the rainfall figure of 374mm in 24 hours correct for the Whangamata catchment for a 1%AEP
2. Where did this 1%AEP come from?
3. Is the 1%AEP required by law to be provided by WRC and included in flood mapping
4. If the flood mapping causes flooding (adverse effect) on properties in Whangamata is WRC legally required to attach this as a warning onto property files?
5. If not, and if required, how does WRC discharge its legal duties in respect to warnings of natural hazard flooding?
6. If required to be entered onto property files does WRC have a policy as to the 'level of adverse effect' to apply to those properties eg adverse as to depth of water, velocity and likely damage to assets, versus localised surface water that will not cause damage to buildings or threat to life?
7. If the 'delta' or sand dunes area of Whangamata experiences 374mm in 24 hours (assuming 1%AEP is correct) what would be the model for rainfall in the catchments further up the ranges – example higher precipitation levels occurs due to ground elevation
8. Does the model take into account obstructions like the 2 bridges over the Causeway and the bypass?
9. Has such a model been done for 1%AEP
10. If not what is the highest rainfall event that has been modelled
11. Could I please have access to this in blown up portal as when I go into the portal the blue shading disappears once I start zooming in.
12. Does WRC share this modelling with any councils in the area
13. If so when was the 1%AEP model shared with TCDC
14. WRC manages TCDC Comprehensive Stormwater Discharge Consent #105668. Has TCDC advised WRC that it has produced a 1%AEP flood mapping model?
15. Does the CSDC require TCDC to have a 1%AEP model?
16. If the CSDC does require TCDC to have a AEP model what is the AEP required
17. If the 1%AEP shows widespread 'flooding' is TCDC required to report this in its reports under the CSDC.
18. If so, please forward to me of TCDC last report showing
    a. The AEP% used in the model
    b. The date of that model
    c. A copy of the model
    d. The extent of properties affected
    e. The advice TCDC provided to WRC under the CSDC to 'manage or mitigate the adverse effects of flooding' eg s31 RMA when approving development or land use

    f. The date WRC received that advice or if more than one please list. I can then chose which ones I want to see.
19. If TCDC has not provided the models or actions TCDC is taking to manage and/or mitigate flooding how is WRC expected to know about flooding in Whangamata.
20. Did WRC provide feedback or any response regarding how TCDC should or could manage and/or mitigate the flooding the model identified?
21. What advice has WRC provided to TCDC about the natural hazard flooding under various AEP events from the catchments of the Wentworth River, Otahu River and Whangamata Harbour catchments.

Thank you

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