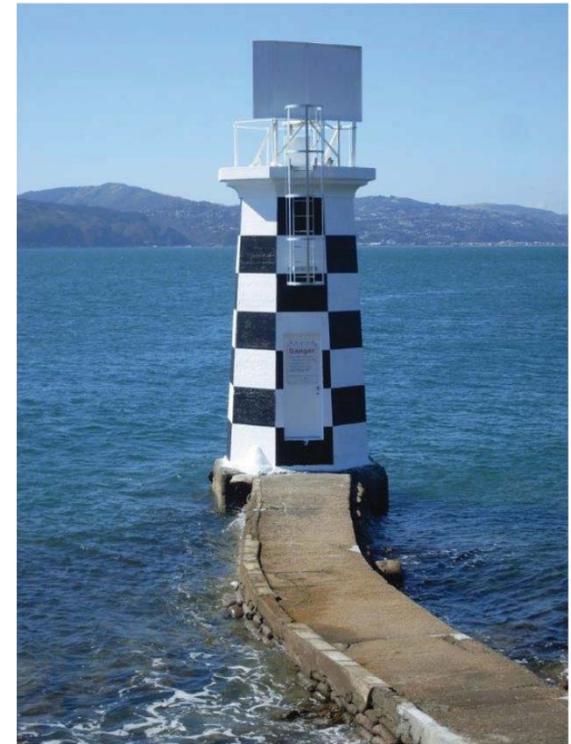
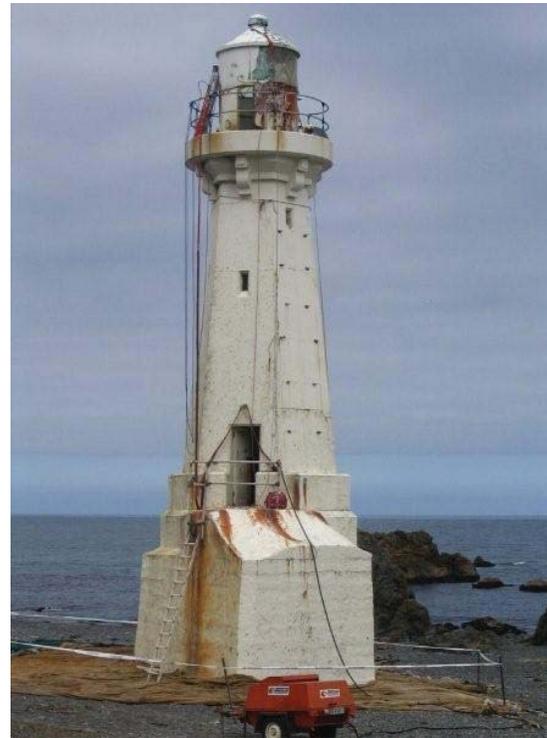


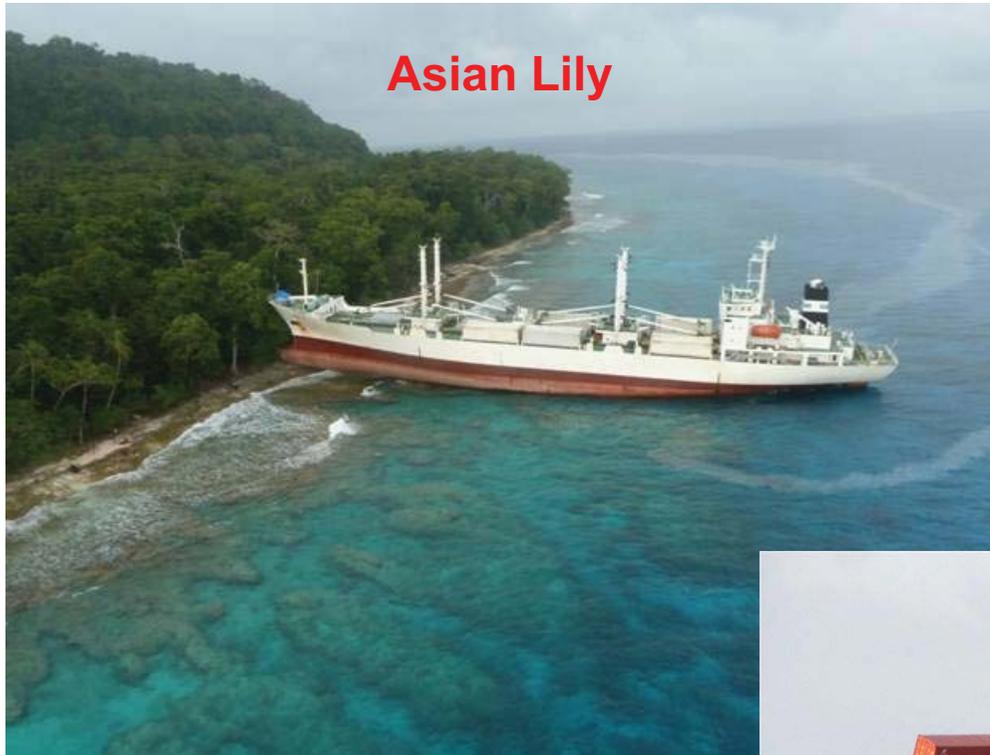
Finance, Risk and Assurance Committee 21 March 2017

# Risk management in the Environment Management Group

# Harbours – the good



# Risks - the bad & ugly



# Risk report - Harbours

QUARTELY RISK REPORT 31 December 2016								
Overall ranking by residual score	Risk ID	Description	Inherent Risk Classification before Controls	Controls	Residual Risk Classification after Controls	Risk Owner	Current Status	
51	31	Navigation accident in area of jurisdiction	High Risk	Insurance is in place Statutory Compliance Asset Management Plan - Environment Group Harbour safety management system is in place and was audited by Maritime NZ last year with a favourable result.	Low Risk	Mike Pryce	The commercial diving review report is being implemented. Steps were taken after the 14 November earthquake to ensure that harbour safety was maintained, and discussions have been held with Civil Defence organisations about usage of the harbour for recovery and resilience activities post-earthquake.	
31	42	Inability to contain an oil spill in the Harbour	Medium Risk	Oil spill equipment is on hand at the harbour Safety management system has procedures & checklists for refuelling operations	Medium Risk	Mike Pryce	On 2 & 3 November, two staff participated in the Regional Council/Maritime New Zealand marine oil spill workshop in Rotorua. Much pre-planning was carried out for a marine oil spill equipment exercise scheduled on 16 November, but this was cancelled after consultation with Maritime New Zealand Planning as there were more important priorities after the 14 November earthquake...	



# Risks



**Stena Provence at Seaview**



**Shoreline clean up in Tauranga – (not from Rena)**

# The Controls

- Harbour Risk Assessment 2006  
(Currently being revised)
- Harbour Safety Management System
- Beacon Hill Communications Station
- Oil Spill Equipment & Plans
- Navigation Aids

# Harbour Risk Assessment & Safety Code

- Maritime New Zealand recommends use of the Port and Harbour Safety Code (based on a UK model). The code is intended to assist port operators (CentrePort) and regulators (Greater Wellington) identify real and potential risks to all users of the harbour and to manage these risks.
- In 2006 CentrePort and Greater Wellington, assisted by Marico Marine completed a risk assessment for Wellington harbour, this is now being reviewed.
- Following on from that there is a Wellington port and harbour safety management system (PHSMS) developed by both Greater Wellington and CentrePort.
- This system has been audited by Maritime NZ and it meets the requirements of the Code.

# Beacon Hill Communications Centre



# Beacon Hill Communications Centre

- Staffed 24/7, and 365 days
- New building and equipment 2010
- Upgrades have been made to initial equipment
- Processes and procedures are reviewed and improved, based on experience and incidents



# Harbours Asset Management

- Asset management plan has been developed as part of GW wide asset focus
- Gaps identified in Asset Management maturity report 2013 have been closed and new improvement targets set
- The Department workboat has been lengthened with good results
- Navigation Aid structures are continually refurbished and technology upgraded where appropriate
- At present new Navigation Aids will be based on demand and funded through user charges

# SeaCare lengthening



**Before**



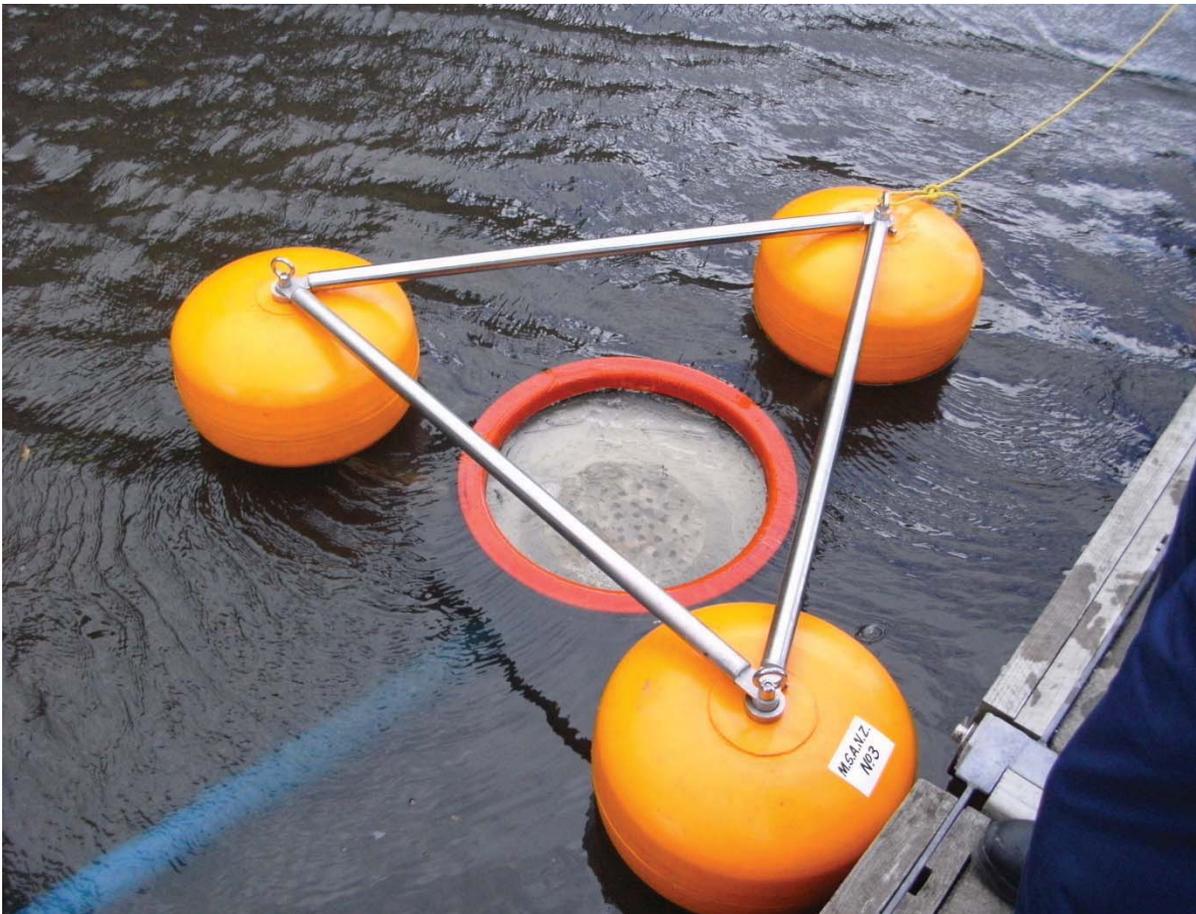
**After**

# Oil Spill Management

- GW is responsible for Tier 2 oil spills – this is resource based, no longer cost limited.
- Equipment regularly serviced
- Oil Spill Exercises
- Training with MNZ
- Due to move away from CentrePort storage so equipment storage now split

# Oil Spill Management

Oil spill equipment used in exercise at Seaview



## Training Exercise at Seaview



# Questions?

# Flood Warning





**QUARTELY RISK REPORT 31 December 2016**

Overall ranking by residual score	Risk ID	Description	Inherent Risk Classification before Controls	Controls	Residual Risk Classification after Controls	Risk Owner	Current Status
45	30	Failure to provide adequate early warning of flood	Medium Risk	Asset Management Plan - Environment Group Flood monitoring equipment is in place at key sites around the Region & is monitored daily with regular inspections Flood procedure manual	Low Risk	Lian Butcher	We continue to mitigate this risk through our ongoing controls. We are also reviewing the network with flood protection and WREMO to see what improvements may need to be made.

# Flood Warning- Key Areas



Hutt River - Riverside Car Park and Block Rd

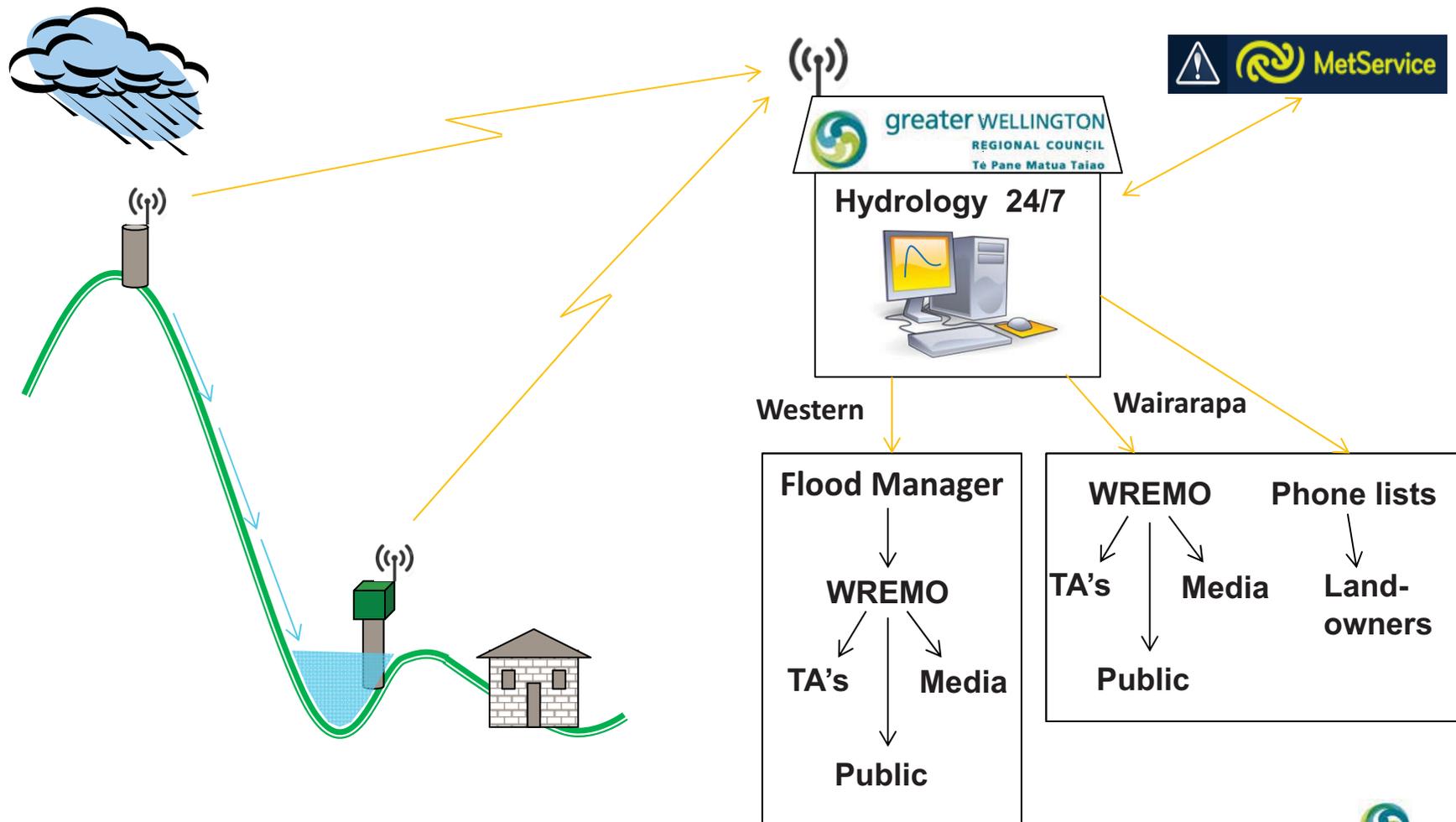


Waiwhetu & Waikanae - risk of property damage



Wairarapa - risk of flooded land & impact on stock

# Flood Warning- Operation





26 Rainfall



28 River Level



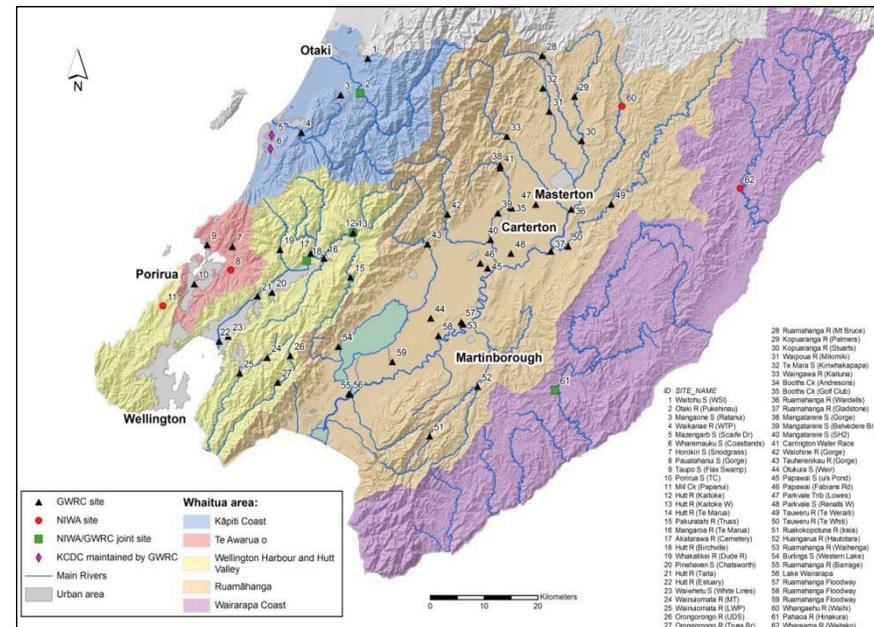
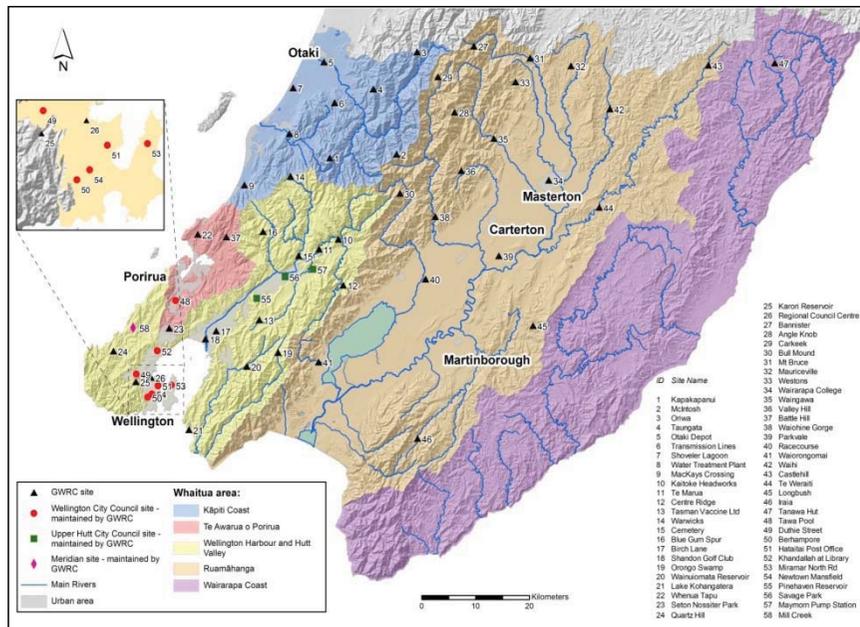


- Asset Management Plan is being reviewed now for LTP
- Back-up level sensors and dual comms as time and budget allows
- Hydrotel now running on single virtual server





# Existing network – Hydrology reviews





## Flood Warning Service Review- Level of Service:

The right message...

...to the right person...

...in the right way...

...at the right time.



## Implementation of the Flood Warning Service Review

- Risk based approach
- One-Stop-shop for flood warning info
- Multi-agency coordination
- Structural/system improvements
- Improve infrastructure
- Engagement and awareness
- Warning delivery





Questions?

