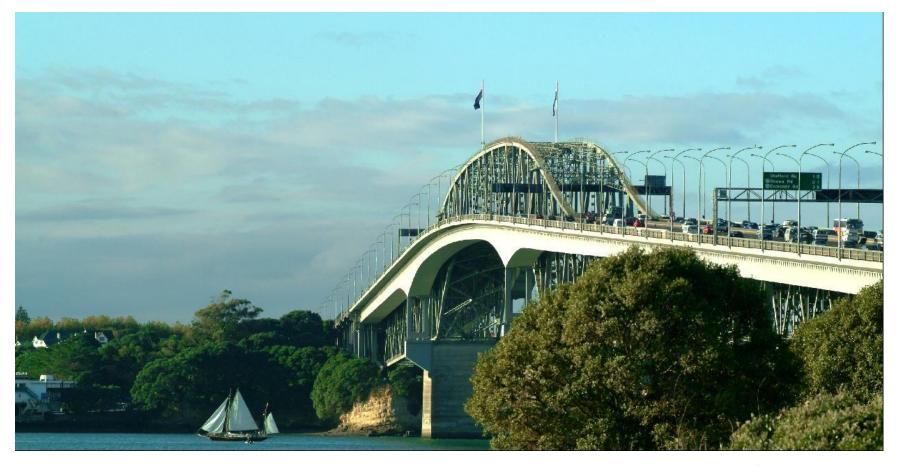


AUCKLAND HARBOUR BRIDGE

MEETING ENVIRONMENTAL CHALLENGES SUSTAINABLY











History

- Opened May 1959
- Widened 1969 'clip-ons'







The Numbers

- **Length**: 1,020 metres (1.2 mins @ 80km/hour)
- Width of main span: 244 metres (2.5 rugby fields)
- Main span clearance: 43 metres above water
- Top span clearance: 63 metres above water
- Average annual daily traffic: over 170,000 vehicles
- **Surface area**: 125,000 m²











Environmental Context



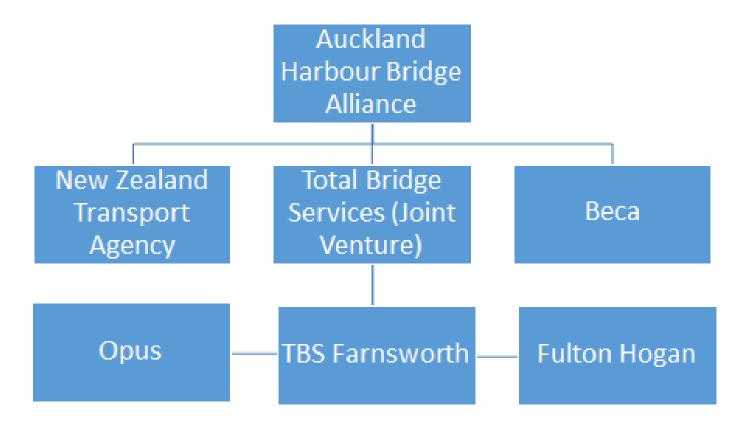






Auckland Harbour Bridge Alliance

Participants









Maintenance Activities

Surface Preparation









Maintenance Activities

Recoating









Regulatory Environment

- Resource Management Act (1991)
- Hauraki Gulf Marine Park Act (2000)
- National Policy Statements and Standards
- Regional Council Planning Documents
 - Discharge of contaminants to coast
 - Discharge of contaminants from dust generating activities
 - Discharge of washwater, wastewater and dry wastes to land









Maintenance Approach

Prescriptive to Outcomes Focussed



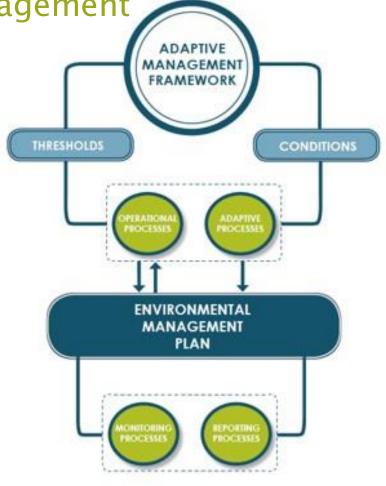




Adaptive Management Framework

Innovation in Environmental Management

- Using science to set thresholds
- Flexibility for operational methods, products and activities
- An adaptive process that allows innovation









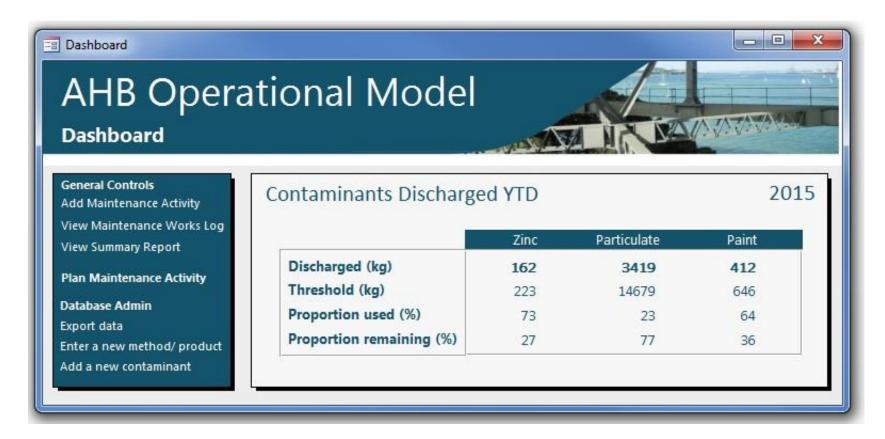
AHB Maintenance Works Package: Job Completion Summary

Summary of Works Completed		(this section to be completed by the Works Supervisor)	
Works Supervisor:		Works Pack ID:	
Date: Works started:		Works completed:	
Location: Over land Over coast		Structure:	
		Span:	Panel Point:
Number of Daily QC Inspection Records attached:			
Maintenance Works Environmental Audit carried out? O No O Yes Date (if 'yes'):			
Works Undertaken (tick and complete section):			
○ Water Blasting	○ Wet Abrasi	ve Blasting or ve Blasting	O Spray Painting
Area (m²):	Area (m²):		Paint used (L):
Containment (%):	Garnet used (k	(g):	Paint overspray (%):
	Containment (%):	Containment (%):
Comments:			



Innovation in Environmental Management

Implementation and Tools









Environmental Outcomes

Reducing Zinc Inputs to the Waitemata Harbour

Zinc Discharges Authorised by Maintenance Consents









Collaboration and Culture

Improved Performance

- Integrated and collaborative approach
- Significant cost savings
- Focus on performance not compliance
- Supports innovation and continual improvement
- Drives behaviour to reduce environmental impacts
- Recognition through awards







Acknowledgements

Alliance Partners and Subcontractors











