

Attachment 5

## Paihia Waterfront Damage Repair Costings

### January 1996 Storm Event

Road sweeping and debris clearance	\$	5,000.00
Abutment repairs near wharf	\$	2,000.00
Damage to neighbouring businesses	\$	3,000.00
Project Management and supervision	\$	2,000.00
<b>Total</b>	<b>\$</b>	<b>12,000.00</b>

### June 1996 Storm Event

Road sweeping and debris clearance	\$	5,000.00
Abutment repairs near wharf	\$	7,000.00
Damage to neighbouring businesses	\$	20,000.00
Project Management and supervision	\$	6,400.00
<b>Total</b>	<b>\$</b>	<b>38,400.00</b>

### March 1997 Storm Event

Road sweeping and debris clearance	\$	5,000.00
Road reinstatement 150 metres length	\$	200,000.00
Footpath	\$	5,000.00
Sewerage	\$	10,000.00
Water	\$	6,000.00
Fibre	\$	15,000.00
Telecom and Power	\$	20,000.00
Abutment repairs near wharf	\$	7,000.00
Damage to neighbouring businesses	\$	20,000.00
Project Management and supervision	\$	57,600.00
<b>Total</b>	<b>\$</b>	<b>345,600.00</b>

### 1998-2000 Annual Events

Road sweeping and debris clearance @ \$5k per year	\$	15,000.00
Project Management and supervision		
<b>Total</b>	<b>\$</b>	<b>15,000.00</b>

### July 2001 Storm Event

Road sweeping and debris clearance	\$	5,000.00
Seawall repair	\$	6,000.00
Footpath	\$	3,000.00
Sewerage	\$	2,000.00
Water	\$	1,000.00
Abutment repairs near wharf	\$	7,000.00
Damage to neighbouring businesses	\$	10,000.00
Project Management and supervision	\$	6,800.00
<b>Total</b>	<b>\$</b>	<b>40,800.00</b>

### 2002-2005 Annual Events

Road sweeping and debris clearance @ \$5k per year	\$	20,000.00
Project Management and supervision	\$	4,000.00
<b>Total</b>	<b>\$</b>	<b>24,000.00</b>

### June 2006 Storm Event

Road sweeping and debris clearance	\$	5,000.00
Abutment repairs near wharf	\$	2,000.00
Damage to neighbouring businesses	\$	3,000.00
Project Management and supervision	\$	2,000.00
<b>Total</b>	<b>\$</b>	<b>12,000.00</b>

### March 2007 Storm Event

Road sweeping and debris clearance	\$	5,000.00
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Abutment repairs near wharf	\$	2,000.00
Damage to neighbouring businesses	\$	30,000.00
Project Management and supervision	\$	7,400.00
<b>Total</b>	<b>\$</b>	<b>44,400.00</b>

**2008-2010 Annual Events**

Road sweeping and debris clearance @ \$5k per year	\$	15,000.00
Project Management and supervision	\$	3,000.00
<b>Total</b>	<b>\$</b>	<b>18,000.00</b>

**January 2011 Cyclone Wilma**

Road sweeping and debris clearance	\$	5,000.00
Abutment repairs near wharf	\$	2,000.00
Damage to neighbouring businesses	\$	3,000.00
Project Management and supervision	\$	2,000.00
<b>Total</b>	<b>\$</b>	<b>12,000.00</b>

**2012 Annual Event**

Road sweeping and debris clearance @ \$5k per year	\$	5,000.00
Project Management and supervision	\$	1,000.00
<b>Total</b>	<b>\$</b>	<b>6,000.00</b>

**April 2013 Storm Event**

Road sweeping and debris clearance	\$	5,000.00
Abutment repairs near wharf	\$	10,000.00
Damage to neighbouring businesses	\$	60,000.00
Project Management and supervision	\$	15,000.00
<b>Total</b>	<b>\$</b>	<b>90,000.00</b>

**April 2014 Storm Event**

Road sweeping and debris clearance	\$	5,000.00
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Abutment repairs near wharf	\$	2,000.00
Damage to neighbouring businesses	\$	3,000.00
Project Management and supervision	\$	2,000.00
<b>Total</b>	<b>\$</b>	<b>12,000.00</b>

**2015-2020 Annual Events**

Road sweeping and debris clearance @ \$5k per year	\$	30,000.00
Project Management and supervision	\$	6,000.00
<b>Total</b>	<b>\$</b>	<b>36,000.00</b>

**May 2021 (Typical Annual Event)**

Road sweeping and debris clearance	\$	5,000.00
Abutment repairs near wharf	\$	2,000.00
Damage to neighbouring businesses	\$	3,000.00
Project Management and supervision	\$	2,000.00
<b>Total</b>	<b>\$</b>	<b>12,000.00</b>

<b>Total repair estimate for events 1997-2021</b>	<b>\$</b>	<b>718,200.00</b>
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*Note figures don't include loss of earnings for local businesses during events or loss of productivity due to delays on the state highway network. Figures don't include resilience works NZTA have undertaken to protect the foreshore e.g. rock armouring. Figures don't include damage to wharf facilities or vessels using the wharf during storm events.*