PSMC 003 CR 031 ENTERED



# **AUCKLAND HARBOUR BRIDGE CONTRACT PSMC 003**

**Resource Consents for Discharge of Abrasive Blast Products** 

**Annual Report - January 2003** 

Prepared By:

**Total Bridge Services** 

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Auckland

Date:

28 January 2003

Approved for Release:

Paul Cannons

OFFICE COPY

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#### 1 INTRODUCTION

This report has been prepared for the Auckland Regional Council in accordance with the special conditions of consent as set out in the Resource Consent for the Auckland Harbour Bridge (AHB). This report covers the period from 10 October 2001 to 30 September 2002.

The Resource Consents have been granted to Transit New Zealand for the discharge of abrasive blasting products from abrasive blasting of the Auckland Harbour Bridge under the following Discharge Permits:

- Discharge Permit No. 23956 for discharge to air
- Discharge Permit No. 23954 for discharge to ground
- Discharge Permit No. 23955 for discharge to water

All conditions of these discharges permits are being complied with. In accordance with the special conditions of consent the following details are discussed:

- The location and extent of blasting, along with details of conditions
- The estimated quantity (in kg) of abrasive blasting products used
- Confirmation of the quantity of contaminants recovered, stored and disposed
- Confirmation that no more than 10m<sup>2</sup> of blasting has been carried out in those areas where lead paint is known to be present
- Conformation that no abrasive blasting has been undertaken on surfaces coated with lead with concentrations greater than 5000 parts per million by weight in the dry film or containing other hazardous air pollutants
- Details of measures undertaken to avoid, remedy, or mitigate any adverse environmental effect
- Details of screens used and the areas where they are deployed
- Details of any complaints received, and their nature

The physical works contractor responsible for the painting of the AHB changed on 1 December 1998 from Serco to Total Bridge Services. The Total Bridge Services contract has a contract period of 10 years expiring on 30 November 2008. Total Bridge Services is a joint venture between TBS Farnsworth Limited, Fulton Hogan Limited and Opus International Consultants Limited.



#### 2 DISCHARGE TO LAND AND WATER

#### 2.1 Location and Extent of Blasting

Over the past twelve months the majority of the abrasive blasting, high pressure water blasting and maintenance painting was carried out on the original truss bridge in Spans 6 and 7, below the walkways, and inside the West Extension. No blasting was carried out above sealed public areas where discharge into the storm water system was possible.

The areas painted include:

- Truss Bridge, Span 7, Below Walkway, Panel Points 0 10
- Truss Bridge, Span 6, Below Walkway, Panel Points 0 2
- West Extension Internal, Boxes 1 14
- East Extension Outer Cantilever, Boxes 0 5

The total quantity of blasting media used over the past 12 months was 31,845kg. This is a 20% increase compared to the year 1999-2000. This increase is due primarily to work focusing on the Original Truss Bridge.

The maintenance work of the original truss bridge under the walkway in span 7 included the coating of all external steel work. The total area coated in Span 7 of the original truss bridge was 3,120m<sup>2</sup>. This area used a total of 19,325kg, which made up 61% of all media used in the past 12 months.

The painting maintenance for the under walkway area in Span 6 of the original truss bridge followed the same methodology as described above for the same area within span 7. The area painted within span 6 was  $662m^2$ . A total of 11,725kg of blasting media was used in this area, which made up 37% of blasting media used in the past 12 months.

The East Extension exterior maintenance works includes the recoating of the web and cantilever. The total area of painting was 1,160m<sup>2</sup>. It comprised of the outer web plate, outer cantilever, deck plate and longitudinal trough stiffeners. The total volume of blasting media used in this work package was 425kg, which made up 1% of all blasting media used in the last 12 months.

### 2.2 Abrasive Blasting Products

Quantity of Abrasive Blasting Products Generated

Details of abrasive blasting carried out on the Auckland Harbour Bridge between 10<sup>th</sup> October 2001 and 30<sup>th</sup> September 2002 have been tabulated and included in Appendix A. For each day the location of the blasting, the work hours, wind speed, wind



direction, amounts and type of abrasive, and controls have been recorded. Table 1 below gives the approximate amount of abrasive blasting used in each part of the Bridge over the past 12 months. The period of blasting and prevailing wind direction is also given.

Table 1: Summary of Abrasive Blasting

Location of Blasting	Period	Approximate Amount of Abrasive Used	Prevailing Wind Direction
Truss Bridge, Span 7, Below Walkway, Panel Points 0 - 10	18 <sup>th</sup> December 2001 to 2 <sup>nd</sup> August 2002	19,325kg	sw
Truss Bridge, Span 6, Below Walkway, Panel Points 0 - 2	8 <sup>th</sup> August 2002 to 25 <sup>th</sup> September 2002	11,725kg	SW
West Extension Internal, Boxes 1 – 14	10 <sup>th</sup> June to 11 <sup>th</sup> July 2002	Nil	N/A
East Extension Outer Cantilever, Boxes 0 – 5	26 <sup>th</sup> September to 27 <sup>th</sup> September 2002	425kg	W

### 2.3 Contaminant Recovery

In accordance with the conditions of the resource consent it is necessary to minimise the discharge of blast media and paint debris as far as is practicable via capture and correct disposal where discharges are over seawater. Where discharges are over land, all debris is to be captured and removed to an appropriate treatment or disposal facility. During the past 12months no maintenance painting has been carried out over land, thus contaminant recovery has been limited to areas over the water where it has been deemed practicable. It has been found that by adopting a sensible, sympathetic approach to the maintenance operations discharge of contaminants has been kept to a minimum. The most effective method to date has been to restrict blasting to minimum practicable surface areas; i.e. spot blasting the corrosion rather than blasting the whole package, this has been successful in keeping the volume of debris from the old paint systems discharged to less than  $0.05 \, \mathrm{m}^3$  per year. Assessments on the environment have shown that the effects from spillage of the coating products to be insignificant under normal working conditions. To date no excessive spills have occurred.

#### 2.4 Surfaces coated with Lead

On the bridge there are only two locations where lead based paints are present, span 7 and inside the box extensions. Previously it has been estimated that only  $0.051\text{m}^3$  of red lead paint per panel point remains on the bridge. Over the last 12 months, it has been ensured that no abrasive blasting greater than  $10\text{m}^2$  has been carried out in areas



where lead paint is known to be present. It has been estimated in previous contracts that only a very small fraction of this paint (on average 5%, or  $0.0026m^3$ ) is removed by the spot blasting involved in maintenance painting. The adopted philosophy regarding areas contaminated with lead is such that the corrosion will almost certainly reoccur in the same locations. This means that those areas have been blasted in the past thus removing all lead from the surfaces, any further blasting will only take off reapplied paint systems, which do not contain lead. If the area blasted is greater than has been previously cleaned then it has been found that the additional area is minimal. It is estimated that no more than  $3m^2$  has been blasted in the last 12months.

# 2.5 Measures Undertaken to Avoid, Remedy, or Mitigate any Adverse Environmental Effects

Total Bridge Services over the past twelve months have continued to as far as practicable avoid, remedy, and mitigate any adverse effects on the environment from the abrasive blasting on the Auckland Harbour Bridge. Methods used include:

- Using more garnet, particularly over sensitive areas (South of Pier 5 and North of Pier 1) wherever possible, has been instrumental in the reduction of abrasive dust generated whilst blasting. Garnet is more efficient due to its hardness and angular profile and therefore a lesser quantity is used to prepare the steel surfaces compared to basalt and other trailed abrasives.
- High pressure water blasting has continued to be used over the past twelve months to remove as much loose paint, scale and corrosion products from the surfaces as possible before abrasive blasting. Water blasting generates paint flakes rather than generating the dust associated with abrasive blasting. Following the water blasting, sweep blasting is used to obtain a surface profile for anchorage of the paint film.
- Surrounding businesses and residents were forwarded information relating to blasting and painting programmes at regular intervals over the past twelve months. A survey was carried out of the local residents by Total Bridge Services to ensure that over the past twelve months that they were happy with the controls provided. The results are contained in Appendix B.
- Signage was displayed advising motorists and the public of abrasive blasting and coating operations on the Auckland Harbour Bridge.
- The current blasting philosophy is based on spot blasting followed by a light sweep blast. This philosophy together with the high pressure water blasting and ultra high-pressure water blasting where possible minimises the volume of material that is generated. This philosophy has greatly reduced the volume of blasting media used.
- Paint trials are currently being undertaken to ascertain whether there are
  potential benefits of switching to an alternative product. From an
  environmental viewpoint the products are being examined with regards to their



ease of application, solvent fumes, and the durability of the coating. Three alternative Moisture Cured Urethanes are currently being trialed.

• Long-term solutions are being examined to look at the viability of moving from Moisture Cured Zinc primers to a Thermal Zinc Spray. This is being approached from two different aspects, firstly, in the short-medium term using the thermal zinc spray for spot repairs, and in the long term, complete thermal zinc spraying. Complete Thermal Zinc Spraying is a system that would require the removal of all the existing coating and complete replacement. It has the advantage of reducing the number of spot repairs required, hence the amount of blasting, to a minimum over the foreseeable future.

#### 3 DISCHARGE TO AIR

### 3.1 Details of Blasting

As mentioned above the majority of the work carried out between October 2001 and September 2002 occurred below the walkways between Spans 6 and 7. Some further work was carried out inside the West Extension, and on the outer cantilever on the East Extension. Details showing the date and time of commencement and duration of dry abrasive blasting and/or spray painting, areas of the bridge being blasted or painted, the type of abrasive used, wind speed and direction, and any control measures undertaken. These details have been tabulated and can be found in Appendix A.

#### 3.2 Surfaces Coated with Lead

Over the past twelve months it has been ensured that no blasting has been undertaken on surfaces coated with lead with concentrations greater than 5000 parts per million by weight in the dry film or containing other hazardous air pollutants. As has been mentioned above, corrosion on the bridge occurs repeatedly in the same location meaning the lead paint has been removed in the past. Over the past 12months it is estimated that no more than  $3m^2$  of lead paint has been blasted.

#### 4 AUCKLAND HARBOUR BRIDGE EXTENSION RESURFACING

A joint venture consortium undertakes the extension-resurfacing project with TBS Farnsworth and Blacktop Construction being the partners. Opus International Consultants undertake the contract supervision.

Over the December 2001/January 2002 period the East Extension from mid-span to the northern abutment was resurfaced. Abrasive blasting on this job was undertaken using captive shot blasting where the recovery rates for spent abrasive exceeded 95%.



# **APPENDIX A**

Abrasive Blasting Data 2001/2002

Date	Work	Package	Work	Hours		Wind 9	Speed				Abrasi	ve (kg)			Controls
	Location	Operation	From	То	0830hrs	Direction		Direction	Garnet	Fine Blast		Rom	Total	Recovered	
10-Oct-01		imb Construction				No Re					0.00				
11-Oct-01		imb Construction				No Re	cords								
12-Oct-01		imb Construction				No Re	cords								
13-Oct-01		ekend			A STATE OF									12.00	
14-Oct-01	We	ekend													
15-Oct-01	Control of the Contro	imb Construction				No Re	cords				W TO 187 STATE				
16-Oct-01		imb Construction				No Re		and the second							
17-Oct-01		imb Construction				No Re									
18-Oct-01		imb Construction				No Re									
19-Oct-01		imb Construction		3		No Re	cords								
20-Oct-01		ekend								EVEN SAN					
21-Oct-01		ekend													
22-Oct-01	AHB Bridge CI	imb Construction				No Re	cords				- T				
23-Oct-01		imb Construction				No Re	cords								
24-Oct-01		imb Construction				No Re									
25-Oct-01		imb Construction				No Re									
26-Oct-01		imb Construction		1000000		No Re		7 7 20					1		
27-Oct-01	The second secon	ekend													
28-Oct-01		ekend													
29-Oct-01		imb Construction				No Re	cords								
30-Oct-01		imb Construction			1	No Re									
31-Oct-01		imb Construction			1	No Re									
1-Nov-01		imb Construction	get III			No Re			1,112						
2-Nov-01		imb Construction				No Re	cords								
3-Nov-01	THE RESIDENCE OF THE PARTY OF T	ekend	100							The second second	100		ELEVANO.		
4-Nov-01	We	ekend													
5-Nov-01		imb Construction				No Re	cords								
6-Nov-01		imb Construction				No Re								100	
7-Nov-01		imb Construction		. & . T		No Re	cords								
8-Nov-01		imb Construction				No Re	cords	1.00		1					
9-Nov-01		imb Construction		Ar and		No Re	cords								
10-Nov-01		ekend								1000000	EN AVECEN				
11-Nov-01	We	ekend													
12-Nov-01		imb Construction				No Re	cords	1.2							
13-Nov-01		imb Construction				No Re									
14-Nov-01		imb Construction				No Re									
15-Nov-01		imb Construction	filling (em.)			No Re					LA				
16-Nov-01		imb Construction				No Re									
17-Nov-01		ekend								THE REAL PROPERTY.					HE STATE
18-Nov-01		ekend													
19-Nov-01		imb Construction				No Re	cords								

Date	Work	Package	Work	Hours		Wind:	Speed				Abrasi	ve (kg)			Controls
	Location	Operation	From	То	0830hrs	Direction	1400hrs	Direction	Garnet	Fine Blast		Rom	Total	Recovered	
20-Nov-01	AHB Bridge C	limb Construction				No Re	cords	E STORY							
21-Nov-01		limb Construction				No Re	cords								
22-Nov-01		limb Construction				No Re									
23-Nov-01		limb Construction			4	No Re							DATE:		
24-Nov-01		eekend	SYSTEMATICS												
25-Nov-01		eekend													
26-Nov-01		limb Construction				No Re	cords								
27-Nov-01		limb Construction				No Re		Beer 1							
28-Nov-01		Climb Construction				No Re									No.
29-Nov-01		Climb Construction				No Re									
30-Nov-01		Climb Construction				No Re									
1-Dec-01		eekend		STATE OF THE PARTY		NOTE	coras		olessassas a	and the same					
2-Dec-01		eekend													
3-Dec-01					The Real Property lies	No Re	cordo							Name and Address of the Owner, where the Owner, which is the Owner, which	The second
		Climb Construction								1			Of the Case of		
4-Dec-01		Climb Construction				No Re			L Style						
5-Dec-01		Climb Construction		3		No Re		100							
6-Dec-01		Climb Construction				No Re							. 4		
7-Dec-01		Climb Construction				No Re	ecords		Name and Address of the Owner, where				NAME OF TAXABLE PARTY.		
8-Dec-01		eekend													
9-Dec-01		eekend													
10-Dec-01		Climb Construction				No Re							6 - 10 F		
11-Dec-01		limb Construction			1	No Re							100		
12-Dec-01		limb Construction				No Re									
13-Dec-01		limb Construction				No Re		T. Salah II							
14-Dec-01	AHB Bridge C	limb Construction				No Re	ecords								
15-Dec-01	W	eekend													
16-Dec-01	W	eekend													
17-Dec-01	AHB Bridge C	limb Construction				No Re	ecords								
18-Dec-01		Painting only	9:00	13:00	2	sw	5	sw							Curtains
19-Dec-01		Painting only	10:00	15:00	4	sw	6	sw							Curtains
20-Dec-01		Painting only	8:30	13:30		No Re	cords				Part Ne				Curtains
21-Dec-01		limb Construction				No Re	cords								
22-Dec-01		eekend			Market Street										
23-Dec-01		eekend													
24-Dec-01	the second secon	Closed		Name and Address of the Owner, where		No Re	cords							The same of the sa	
	Public Holiday	0.0004				110 /10		COLUMN TO SERVICE STATE OF THE	ECHALLES AND	CONTRACTOR OF THE					
	Public Holiday														
27-Dec-01		Closed				No Re	corde								
28-Dec-01		Closed		L. J. Markey	1	No Re							1 - 12/10		
29-Dec-01			THE REAL PROPERTY.	activity manual		INO INC	Corus		internation.	Total Liverine	NAME OF TAXABLE PARTY.		Name and Address of	or consumer training	
		eekend													
30-Dec-01	VV	eekend				Control of the									

Date	Worl	k Package	Work	Hours		Wind	Speed				Abrasi	ve (kg)			Controls
	Location	Operation	From	То	0830hrs		1400hrs	Direction	Garnet	Fine Blast	Min Blast	Rom	Total	Recovered	
31-Dec-01	Sit	e Closed				No Re	ecords								
1-Jan-02	Pub	lic Holiday		100											
2-Jan-02	Pub	lic Holiday													
3-Jan-02	Sit	e Closed				No Re	ecords			TOUR					
4-Jan-02	Sit	e Closed				No Re	ecords								
5-Jan-02	N	/eekend	MARKET												
6-Jan-02	N	/eekend													
7-Jan-02 B	7, 7-8	Painting only	9:00	15:00	0	SSW	5	SSW							Curtains
8-Jan-02 B	7, 7-8	Painting only	No R	ecord	0	sw	4	sw							Curtains
9-Jan-02 B		Painting only	9:00	14:00	2.5	N	12	NE					4,545		Curtains
10-Jan-02 B		Set-up	8:30	14:30	0		5	l w							Curtains
11-Jan-02 B		Set-up	8:30	14:30	0	-	0				Section 1971			1.55	Curtains
12-Jan-02		/eekend		HEREIN SKI											
13-Jan-02		/eekend													
14-Jan-02 CA		I	10:00	15:00	10	N	10	NW							
15-Jan-02 CA			9:30	15:30	8	NW	11	sw						C 140 TO 150	
16-Jan-02 B		Waterblasting	10:30	14:30	5	w	7	W							Curtains
17-Jan-02 B		Painting only	10:30	13:30	5	NW	5	NW						100	Curtains
18-Jan-02 B	7 7-10	Painting only	8:15	15:30	0		5	NW		L 35 1					Curtains
19-Jan-02 O		Crevice Corrosion	9:00	15:00	7	SW	8	SW					PERSONAL PROPERTY.		Our turns
20-Jan-02		/eekend	3.00	15.00		000		0,,							
21-Jan-02 B		I	8:30	14:30	7	SE	3	SE	500	British Coleman	BUILD IN COLUMN		500	0	Curtains
22-Jan-02 B			11:00	15:00	3	SE	3	SE	500				500		Curtains
23-Jan-02 B			8:30	14:00	0+	NE	5	NE NE	500		1		500		Curtains
24-Jan-02 B			10:30	15:00	0	INC	3	NE NE	500				500		Curtains
			10:30	13:00	2	NE	0+	NE NE	500				500		Curtains
25-Jan-02 B		and the second second second	10:00	14:30	5	NE NE	6	NE NE	500				500		Curtains
26-Jan-02 B		(astronal	10:00	14:30	3	. NE	0	INE	500				500		Curtains
27-Jan-02		/eekend													
28-Jan-02		lic Holiday	40.00	14:00	-	-	7	-	500	The second second	Section 2		500		Curtains
29-Jan-02 B		Paint Trial	10:30		5	E	7	E	500						
30-Jan-02 B			8:30	14:00	-			E					500	7.40	Curtains
31-Jan-02 B				ecord	5	NE	6	NE	500				500		Curtains
1-Feb-02 B			12:00	14:00	3	SE	5	SE	250		ein bestellt an eine		250		Curtains
2-Feb-02 B	A CONTRACTOR OF THE PARTY OF TH		10:00	14:30		NoR	ecord		250				250	) 0	Curtains
3-Feb-02		/eekend												EXHIBIT	
4-Feb-02 No			10:00	14:30	0+	SW	2	SW	250				250	0	
5-Feb-02		Records	9:30	14:30		No R	ecord								
6-Feb-02		lic Holiday													THE REAL PROPERTY.
7-Feb-02 B			9:30		0	SE	3	E	250				250		Curtains
8-Feb-02 B	7, 7-8		9:00	14:00	4	E	6	E	100				100	0	Curtains
9-Feb-02															

Date	W	ork Package	Work	Hours		Wind	Speed				Abrasiv	ve (kg)			Control
	Location		From	То	0830hrs	Direction	1400hrs	Direction	Garnet	Fine Blast		Rom	Total	Recovered	
10-Feb-02															
11-Feb-02		No Records					ecord								
12-Feb-02	n to	No Records	7:50	12:50	3	SW	4	sw							
13-Feb-02			8:00	13:00	4	sw	7	sw							
14-Feb-02	B 7, 7-8		7:30	14:00	2	sw	0	sw	500				500	0	Curtains
15-Feb-02	B 7, 7-8	Painting only	9:00	13:30	3	SW	4	sw							Curtains
16-Feb-02	B 7, 7-10		8:00	12:30	0+	SW	0+	SW	1000				1000	0	Curtains
17-Feb-02		Weekend													
18-Feb-02	B 7, 7-10	Painting only	8:00	14:30	0+	SW	0+	SW							Curtains
19-Feb-02	B 7, 7-10	Painting only	11:00	15:00	2	SW	6	sw	500				500	0	Curtains
20-Feb-02	B 7, 8-10	Painting only	9:00	13:30	1	sw	2	sw							Curtains
21-Feb-02		Painting only	9:30		6	E									Curtains
22-Feb-02		No Records			10	NE									
23-Feb-02		Weekend	Rest less			OF STREET							No. of the last		
24-Feb-02		Weekend									S. E. Salah				
25-Feb-02	B 7. 6-7		9:00	13:00	2	SW	3	sw	500				500	0	Curtains
26-Feb-02		Painting only	8:00	12:00	3	W	3	w							Curtains
27-Feb-02			9:00	12:00		E		E	500				500	0	Curtains
28-Feb-02			8:00	,_,,	2	sw	3	sw	500				500		Curtains
1-Mar-02	Control of the Contro	No Records	9:00	13:30	8	N	9	N							Cui tuii io
2-Mar-02		Weekend	0.00	10.00		et militare								STATE WATER	
3-Mar-02		Weekend						No.							
4-Mar-02	B 7 6-7	I I	8:00	12:00	3	S	5	S	200	AND ASSESSMENT OF THE PARTY OF	AND DESCRIPTION OF THE PERSON		200	0	Curtains
5-Mar-02	B 7 6-7		8:00	12:00	4		6	1	200				200		Curtains
6-Mar-02			10:00	13:30	2	SE	4	sw	500				500		Curtains
7-Mar-02			9:00	13:00	2	NE	4	NE						1	Curtains
8-Mar-02			9:00	15:00	1	NE	3	NE I	200				200	0	Curtains
9-Mar-02			12:00	10.00	4	NE	6	NE I	400				400		Curtains
10-Mar-02	5,,0,	Weekend	12.00						100				400	· ·	Curtumo
11-Mar-02		No Records	12:00	SOUR PROPERTY.	10	NE	10	NE						Established Street	
12-Mar-02		No Records	12:00		10	NE	10								
13-Mar-02		No Records	10:00		10	E									
14-Mar-02		No Records	9:00		6	E								100	
15-Mar-02		No Records	8:30	14:30	2	SE	0	SE							
16-Mar-02		Weekend	0.00	14.00		OL.		OL.							
17-Mar-02		Weekend													
18-Mar-02	B 7 6-7	Brush Painting	10:00	15:00	17	sw	12	w				EDG LE DAVIS		A STATE OF THE PARTY OF THE PAR	Curtains
19-Mar-02		Painting only	8:00	15.00	2	SW	12	VV		7 - 17 - 19	flow			100	Curtains
20-Mar-02		Painting only	9:00	15:30	2	NW	7	w						1 1	Curtains
21-Mar-02	D 1, 0-1	No Work	3.00	13.30	2	1400	1	VV		of Paylots					our tains
21-Mar-02	B7 67	Painting only	8:00	13:00	2	sw	4	sw							Curtaina
22-Wai-02	D 1, 0-1	Fairtung only	0.00	13.00	4	SVV	4	SVV							Curtains

Date	N W	ork Package	Work	Hours		Wind	Speed				Abrasi	ve (kg)			Control
	Location		From	То	0830hrs	Direction	1400hrs	Direction	Garnet	Fine Blast		Rom	Total	Recovered	
23-Mar-02	B 7, 6-7	Painting only	8:00	14:00	0	SW	3	SW							Curtains
24-Mar-02		Weekend													
25-Mar-02	B 7, 6-8	Painting only	10:30	13:00	2	SW	4	SW							Curtains
26-Mar-02	B 7, 7-8	Painting only	9:00	15:00	4		5								Curtains
27-Mar-02		No Work													
28-Mar-02		No Work													
29-Mar-02	F	Public Holiday													
30-Mar-02		Weekend													
31-Mar-02		Weekend													
1-Apr-02	F	Public Holiday													
2-Apr-02			10:00	14:30	4	SW	10	sw	250				250	0	Curtains
3-Apr-02			8:30	14:30	2	W	6	W	500				500		Curtains
4-Apr-02			9:30	15:30	2	sw	2	W	500				500	1	Curtains
5-Apr-02			8:30	11:00	2	NW	1	NW	250				250	0	Curtains
6-Apr-02		Weekend													
7-Apr-02		Weekend													
8-Apr-02			9:00	14:30	0	SW	0	sw	500				500	0	Curtains
9-Apr-02			11:00	14:00	1	SE	3	SE	250				250	0	Curtains
10-Apr-02			9:30	15:00	2	SE	1	SE	500				500		Curtains
11-Apr-02		Painting only	9:00	13:30	1	SE	1	SE							Curtains
12-Apr-02		Painting only	8:00	14:00	0	SE	0	SE							Curtains
13-Apr-02		Weekend						NOTE BEAUTI							
14-Apr-02		Weekend													
15-Apr-02			8:00	13:00	0	SW	3	sw	300				300	0	Curtains
16-Apr-02			8:00	14:30		No R	ecord		300				300		Curtains
17-Apr-02			11:00	13:30	2	SE	0		500				500	0	Curtains
18-Apr-02		Painting only	10:30	14:30	0	sw	0	sw	N - U	10					Curtains
19-Apr-02		Painting only	8:30	13:00	0	SW	2	sw	5- a- 737						Curtains
20-Apr-02		Painting only	8:30	13:00	0	SE	2	SE					STORY OF		Curtains
21-Apr-02		Weekend													
22-Apr-02		Painting only	10:00	13:45	2	E	3	E		311					Curtains
23-Apr-02		Painting only	9:30		7	E	7	E							Curtains
24-Apr-02		No Records			7	NE	10	NE							
25-Apr-02	F	Public Holiday													
26-Apr-02		No Work													
27-Apr-02		Weekend		SWINIY											131115
28-Apr-02		Weekend													
29-Apr-02		Painting only			13	W									
30-Apr-02		Painting only	11:00	13:30	0	100	0							Co. Sec. 1	Curtains
1-May-02		Painting only	10:00	15:30	0	sw					308				Curtains
2-May-02		Painting only	9:00	13:30	3	W	5	w	10 m				1000		Curtains

Date	Wo	ork Package	Work	Hours		Wind:						ve (kg)			Controls
	Location		From	То	0830hrs	Direction	1400hrs	Direction	Garnet	Fine Blast		Rom	Total	Recovered	
3-May-02	B 7, 2-3	Painting only	11:00	15:00	7	SW	9	SW							Curtains
4-May-02		Weekend			E/E ROLL										
5-May-02		Weekend													
6-May-02		Painting only	10:00	15:30	0	W	5	W					manager of the		Curtains
7-May-02		Painting only	9:30	14:00	5	W	6	w							Curtains
8-May-02		Painting only	8:30	14:30	4	W	5	W							Curtains
9-May-02			9:00	13:00	2	sw	3	sw	250				250	0	
10-May-02	N	lo Records				No R	ecord								
11-May-02			8:30		0	sw			500				500	0	Curtains
12-May-02		Weekend													
13-May-02			9:00	13:30	3	SE	5	E	250				250	0	Curtains
14-May-02			10:00	13:00	2	SE	2	SE	250				250		Curtains
15-May-02		Painting only	9:00	14:00	2	sw	2	sw							Curtains
16-May-02			10:00	15:30	0	SE	2	E	250				250		Curtains
17-May-02		Painting only	10:30	13:15	5	E	7	E					- 100		Curtains
18-May-02		Weekend		DESCRIPTION OF		SECTION AND ADDRESS OF								COLUMN TO STATE	Partie sug
19-May-02		Weekend													
20-May-02			10:00	13:00	3	NE	5	NE	250				250	0	Curtains
21-May-02			8:30	14:00	10	NE	10	NE					100		
22-May-02			12:00	1 1	5	NW									
23-May-02			11:00		8	NW									
24-May-02		lo Records	11.00			No R	ecord								
25-May-02		Weekend	THE PARTY NAMED IN					NO SECOND							
26-May-02		Weekend													
27-May-02		I	13:00		10	W			Secretary and the second		The second second				BECKELLING THE
28-May-02			13:00	100	13	w									
29-May-02			12:00		10	sw									
30-May-02			12:00		5	W									Curtains
31-May-02			11:00		2	w									Curtains
1-Jun-02		Weekend	11.00							SELECTION SHOW			in water		O di tali io
2-Jun-02		Weekend													
3-Jun-02		ublic Holiday													
4-Jun-02		I	9:30	Service Control	7	sw		Name and Address of the Owner, where	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is th		NAME OF TAXABLE PARTY.				
5-Jun-02			11:00	15:00	7	sw	7	sw							
6-Jun-02			14:00	10.00	10	sw		J.,							
7-Jun-02			10:30	13:30	4	sw	5	sw					1 38 1	- 30	
8-Jun-02		Weekend	10.00	10.00	THE SECOND	011		011			REPORTED IN				
9-Jun-02		Weekend													
10-Jun-02			10:30	13:30	15	NE	10	NE							
11-Jun-02			10:00	13:00	5	SW	10	sw							
12-Jun-02			10:30	15:00	15	W	10	W							

Date	N	ork Package	Work	Hours		Wind	Speed				Abrasiv	ve (kg)			Control
	Location		From	То	0830hrs	Direction	1400hrs	Direction	Garnet	Fine Blast	Min Blast	Rom	Total	Recovered	
13-Jun-02		No Records				No R	ecord								
14-Jun-02	WXN 9	Painting only	10:00	15:00	3	N	5	N							
15-Jun-02		Weekend													
16-Jun-02		Weekend													
17-Jun-02	B 7, 1-2	Painting only	11:00	15:00	2	NE	4	NE							Curtains
18-Jun-02		Painting only	11:00	15:00	4	NW	2	NW		To all the last					To the last
19-Jun-02		No Records				No R	ecord								
20-Jun-02		No Records				No R	ecord								
21-Jun-02		No Records					ecord								
22-Jun-02		Weekend								DAY BUTTON				BEAT BUR	
23-Jun-02		Weekend													
24-Jun-02		Painting only	10:30	15:00	10	SW	10	sw							
25-Jun-02		Painting only	9:00	14:30	2	NE	3	NE		1					Curtains
26-Jun-02		Painting only	10:00	14:30	2	NE	3	N		10 -40	- 85-663				Curtains
27-Jun-02		i dantaning oranj	11:00		3	NE	N. 177								
28-Jun-02		Painting only	10:30		5	NE				1000					
29-Jun-02		Weekend													
30-Jun-02		Weekend													
1-Jul-02			11:00	14:00	2	W	3	W							
2-Jul-02		Painting only	10:30	14:30	10+	sw	10+	sw							
3-Jul-02		Painting only	8:30		2	W									
4-Jul-02		Painting only	10:00	14:00	3	W	4	w						1	
5-Jul-02		Painting only	7:30	13:30	2	w	8	w					and the		
6-Jul-02		Weekend	7.00	10.00		OF CHILD SALES	STATE OF THE PARTY OF								
7-Jul-02		Weekend													
8-Jul-02		Maintenance	8:30	14:00	5	sw	5	sw							E (Carantal Cara
9-Jul-02		Maintonanoo	11:00	15:00	7	SW	6	sw			222				
10-Jul-02			11.00	10.00	6	NW	6	NW	0.0						
11-Jul-02		Painting only	9:30	14:00	5	NE	5	NE		1			50.00		
12-Jul-02		Maintenance	10:30	14.00	6	N									
13-Jul-02		Weekend	10.00							The State of the S	AR SOLUTION			Tacalisan	
14-Jul-02		Weekend													
15-Jul-02	THE RESERVE AND ADDRESS AS A RESERVE AS A RE		8:30	10:30	5	sw	7	sw			370		370	0	
16-Jul-02		Painting only	9:00	14:00	0		o	-		- 100	3.0				Curtains
17-Jul-02		Maintenance	11:00		0										
18-Jul-02		Maintenance	14:00		o										
19-Jul-02		Maintenance	14.00		0		0	-			No. of the last				
20-Jul-02		Weekend	CHECK THE REST	NAME OF TAXABLE PARTY.			Name and Address of	MODEL SE		The second	SASSESS OF		STATE OF THE PARTY OF		
21-Jul-02		Weekend													
22-Jul-02		Maintenance	9:00		2	NE									
23-Jul-02		Maintenance	9:00		0	-			Elica de la companya					The state of the s	

Date	Wor	k Package	Work	Hours		Wind	Speed				Abrasi	ve (kg)			Controls
	Location	Operation	From	То	0830hrs	Direction	1400hrs	Direction	Garnet	Fine Blast	Min Blast	Rom	Total	Recovered	
24-Jul-02 E	3 7, 0-1		9:30	14:00	2	SW	4	sw	2125				2125		Curtains
25-Jul-02 E	3 7, 0-1		9:00		5	SW			500				500	0	Curtains
26-Jul-02	No	Records				No R	ecord								
27-Jul-02	V	Veekend													
28-Jul-02 E	3 7. 0-1	Painting only	10:00	14:00	3	E	7	E							Curtains
29-Jul-02 E		Painting only	9:00	14:30	5	sw									Signage
30-Jul-02 E		Painting only	8:00	15:00	2	sw	3	sw							Signage
31-Jul-02 E		Painting only	8:30	13:30	1	sw	3	sw							Signage
1-Aug-02 E		Painting only	9:00		0	-									Signage
2-Aug-02 E			9:30	14:30	5	E	7	E	250				250	0	Curtains
3-Aug-02		Veekend													
4-Aug-02		Veekend													
5-Aug-02		Maintenance	9:00	15:00	5	SE	7	SE	250				250	0	
6-Aug-02	No	Records	0.00	10.00		The state of the s	ecord		200				200		
7-Aug-02	140	Maintenance	12:00	15:00	4	SE	5	SE							
8-Aug-02	860-2	I viairiteriaries	9:30	10.00	S 2, 2	02		0_			425		425	0	
9-Aug-02	0,02	Maintenance	12:00	15:00	10	sw	10	sw	250		120		250		
10-Aug-02	١٨	Veekend	12.00	10.00	10				200				200	ELECTRIC STATE	
11-Aug-02		Veekend									3,225				
12-Aug-02 E		I	9:00	12:00	10	sw	15	sw	1000		December 11 State Control		1000	0	
13-Aug-02 E		A CONTRACTOR OF THE PARTY OF TH	7:30	11:30	5	NW	15	NW I	500		1 1		500		
14-Aug-02 E			8:00	11.50	5	NE	10	1,444	1000		1 1		1000		
15-Aug-02 E			8:00		5	NW		1 1	1250	1 1			1250		
16-Aug-02 E			8:30	12:00	5	SW	5	sw	500				500		
17-Aug-02		Veekend	0.30	12.00	3	SVV		SVV	500		CONTRACTOR OF		300	ECONOMISC SAN	
18-Aug-02	Contraction of the contraction o	Veekend													
19-Aug-02 E		I	8:00	13:00	5	sw	10	sw	250				250	0	
20-Aug-02 E		Painting only	8:00	12:30	5	SW	10	SW	250				250		
21-Aug-02 E		Fairtung only	8:00	12:30	5	SW	10	sw	500	Maria Maria			500	0	
22-Aug-02 E		Painting only	8:00	12:00	5	SW	10	sw	300		1 200		300		
23-Aug-02 E		Painting only	7:30	12:00	5	SW	5	NE NE					1		
23-Aug-02 24-Aug-02		Veekend	7:30	12.00	5	SVV	5	INE						ENGINEER CONTRACT	
25-Aug-02		Veekend													
26-Aug-02 E		veekend	10:00	15:00	10	sw	8	sw	500				500		
					3	SW	4		500		1 1		500		
27-Aug-02			10:00 10:00	13:00 15:00	2	SVV	3	S	500				500		
28-Aug-02		Dainting only	11		2	SW	2	S	500				300		
29-Aug-02		Painting only	9:00	15:00	0	500	0	0	500				500	0	
30-Aug-02			11:00	13:00	U	CONTRACTOR OF THE	U	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i	500		DATE NILL SHAPE		500		
31-Aug-02		Veekend													
1-Sep-02		Veekend	40.00	40.00	_		_	NE	000				000		
2-Sep-02 E	3 6, 0-1	Contract to the second	10:00	13:30	0	N	6	NE	300			Annual Control	300	0	

WXN 9

West Extension Internal - Boxes 1 - 11

Date	Wor	k Package	Work	Hours		Wind	Speed				Abrasi	ve (kg)			Control
	Location	Operation	From	То	0830hrs	Direction	1400hrs	Direction	Garnet	Fine Blast	Min Blast	Rom	Total	Recovered	
3-Sep-02 B 6	6, 0-1		8:00	15:00	7	N	7	NE	500				500	0	
4-Sep-02	No	Records					No Record								
5-Sep-02 B 6	3, 0-1		11:00	15:00	4	NW	4	NW	500				500	0	
6-Sep-02 B 6	6, 0-1		13:30	14:30	3	SW	2	S	500				500	0	
7-Sep-02	N	/eekend													
8-Sep-02	N	/eekend													
9-Sep-02 B 6	6, 0-1		9:15	15:30	5	NW	5	NW	600				600	0	
10-Sep-02 B 6	3, 0-1	Painting only	10:00	14:00	5	NW	5	NW							
11-Sep-02 B 6	3, 0-1		11:00	14:30	2	N	5	N	500				500	0	
12-Sep-02 MC	002	Painting only	10:00	13:30	2	S	4	S							
13-Sep-02 B 6	3, 0-1				4	SW	5	sw	250				250	0	
14-Sep-02	V	/eekend													
15-Sep-02	V	/eekend													
16-Sep-02 B 6	6, 0-1	Painting only	11:00	14:30	4	SW	3	SW	1/2010						
17-Sep-02 B 6	3, 0-1		10:30	15:00	1	W	1	W	250				250		
18-Sep-02 B 6	3, 0-1		11:00	15:30	4	W	5	w	250				250	0	
19-Sep-02 No					4	NE	6	NE							2"
20-Sep-02 No	work				7	NW	7	NW				and the second		100	
21-Sep-02	N	/eekend													
22-Sep-02		/eekend													
23-Sep-02 B 6			11:00	13:00	2	NW	4	NW	200				200		
24-Sep-02 B 6			11:00	15:00	4	NW	7	NW	200				200	0	
25-Sep-02 B 6			10:00	15:00	7	SW	7	SW							
26-Sep-02 EX			9:30	14:30	1	NW	2	NW	200				200		
27-Sep-02 EX			9:30	14:00	5	W	6	W	225	Marie I			225	0	
28-Sep-02		/eekend													
29-Sep-02	V	/eekend													
30-Sep-02		Maintenance	9:00	15:00		SW	6	SW							
								Total	31050	0	795	0	31845	0	

B7, 0 - 1	Span 7, Below Walkway, Panel Points 0 to 1	CAP 7	Drainage Upgrade	Northcote Road Footpath Replacement
B7, 5 -6	Span 7, Below Walkway, Panel Points 5 to 6	CA P 9	West Extension Parapet Refurbishment	Installation of Air and Water Pipes on East Extension
B7, 9 - 10	Span 7, Below Walkway, Panel Points 9 to 10	CAP 10	Electrical Supply Rational	Installation of Westwell Stairs
WXN 8	West Extension Internal - Boxes 12 - 14	EXO 1	East Extension Outer - Boxes 0 - 5	

# **APPENDIX B**

**Local Residents Survey and Feedback** 

Our Ref: PSMC 003/15

26 September 2002



To the Residents

#### AUCKLAND HARBOUR BRIDGE MAINTENANCE

We wish to advise you that maintenance activities will be on going through October and November at the northern end of the Bridge. It is planned to reinstate the protective coatings on twelve boxes of the east extension. This will involve waterblasting, spot abrasive blasting and spray painting. We plan to do this in conjunction with our maintenance operation at the southern end of the Bridge. When the wind direction is adverse at one end we will work at the other when ever possible to minimise as much inconvenience to the nearby residents as possible. Our hours of work are from 7am to 4.30pm Monday to Friday and on occasions it will be necessary to work Saturdays.

Should you have any concerns or queries during these operations then please contact \$9(2)(a)

Yours faithfully,

TOTAL BRIDGE SERVICES

Keith Stolberger Project Manager

Auckland Harbour Bridge

A Joint Venture Company between RoadTec Resources & TBS Group

Our Ref: PSMC003/15

13 January 2003



Dear Neighbour

AUCKLAND HARBOUR BRIDGE MAINTENANCE: RESIDENTS FEEDBACK SURVEY

We are entering of our fifth year (of ten) as the Maintenance Contractor for the Auckland Harbour Bridge and would like to get some feedback from local residents relating to our bridge maintenance activities.

To assist us in improving our operations, could you please take a few minutes to complete the enclosed form outlining any issues that you may have. These could include excessive noise, vibration or adverse affect on air quality caused by our work. Or if, on the other hand, you feel we are carrying out our work in a satisfactory manner we would also welcome your feedback.

Please also find enclosed, for your information, an outline programme of work for next year. None of the programmed work is likely to cause any undue effects on local residents.

Could you please return a completed form in the envelope provided by Friday 24<sup>th</sup> January or if you would prefer a chat please do not hesitate to call me. In the event that you have any urgent concerns requiring our attention I can be contacted on the telephone number below or on mobile phones9(2)(a)

Yours sincerely
TOTAL BRIDGE SERVICES

Paul Cannons Manager

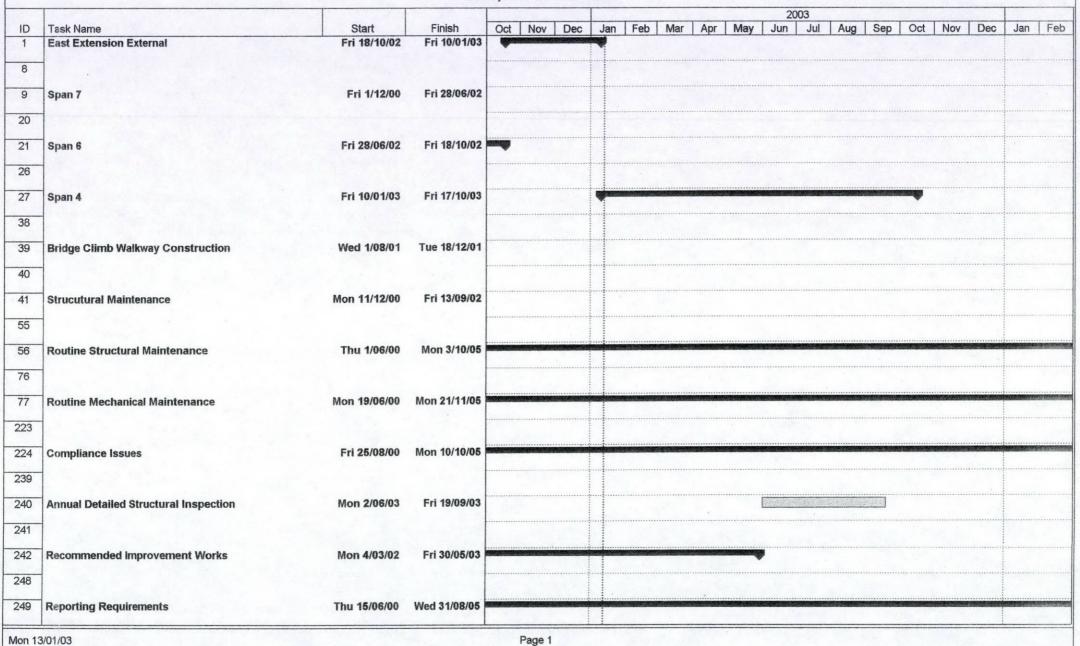
AHB LO	CAL RESIDENT FEEDBACK FORM
Date:	January 2003
Major Work Carried Out this year (2002):	Blasting and Painting Walkway Construction Resurfacing
	Weld Repairs
Name: Address:	
Phone No:	
Do you have any complaints regarding work on the Bridge?	
Do you feel you are being kept adequately informed?	
Suggestions or comments:	
Please Contact the foll queries:	Paul Cannons (Project Manager) Tel: s9(2)(a)
Date: //	

Total Bridge Services Residents Feedback Form QP

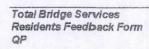


# AHB CONTRACT PSMC 003 1 YEAR MAINTENANCE PROGRAMME

January 2003 - December 2003



Date:	January 2003
Wajor Work Carried	Blasting and Painting
Out this year (2002):	Walkway Construction
	Resurfacing
	Weld Repairs
Name: Address:	s9(2)(a)
	NORTHCOTE PT
Phone No:	s9(2)(a)
Do you have any complaints regarding work on the Bridge?	NONE
Do you feel you are being kept adequately	ABSOLUTENY - APART FROM MY CRUMBLING
Informed?	
Suggestions or	ACRYLIC NOISE ABATEMENT SCREENS IN FRONT
comments:	OF THE HOUSES FROM \$9(2)(a) PRINCES NORTH WOULD
	BE NICE.
	CHOP DOWN GUMS + SILVER DOLLAR FROM # S \$9(2)(a) - NO HORE TRIMMING PROBLEMS FOR BRIDGE
Please Contact the foll	owing with any Paul Cannons (Project Manager) Tel: s9(2)(a)



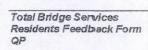


## COMMUNICATION RECORD

То	Date:	15 <sup>th</sup> January 2003	Memorandum
Copy to:	Time	14:00	Telephone Record
Recorded By: Paul Cannons	File No:	PSMC003/06	File Note:
Subject: AHB Local Residents Feedback	Page	1 of 1	Minutes of Meeting
			Feedback
Phone call from resident ats9(2)(a)	N	orthcote Point, in	response to AHB local
Resident feedback form. The resident sta	ited that h	ne is very happy v	vith all aspects of the
Harbour bridge maintenance activities, ar	nd also fe	els that he is kep	t adequately informed
He also offered to return the completed S	Survey if r	equired.	
			en gel (many) hand a fine of the control of the control of the control of the second of the second of the control of the contr
	a-714-64-75-48-6-74-74-64-6-7-7-7-7-7-7-7-7-7-7-7-7-7-		
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	***************************************		
	and a second		
	***************************************		ARRIVER BOLLANDER (1975-1974) A FERRE LEVEL (FRA TO SECURE LEVEL SECUR
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		and the second s	

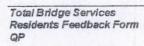


Date:	January 2003
Major Work Carried	Blasting and Painting
Out this year (2002):	Walkway Construction
sout time your twomy.	Resurfacing
	Weld Repairs
	WOR ROPARS
lama.	s9(2)(a)
Name: Address:	***************************************
Address.	NOCTH COTE POINT.
	NOUTH SHORE
	STATE CONTROL STATE STATE CONTROL CONT
Phone No:	0(2)(a)
110110 110.	NOT TBS ACTIVITIES
	( NOT 185 ACTIVITIES
	4
Do you have any	JACKHAMMERS AT ZAM IN
ALB WILDER BEEN WILL CHEEVE	I AL MIN VI LA DI LA AM INI
complaints regarding	MORNING GOING THROUGH TIL
complaints regarding	MORNING COING TURDUCH TIL
complaints regarding work on the Bridge?	MORNING GOING THROUGH TIL
complaints regarding	MORNING GOING THROUGH TIL
complaints regarding work on the Bridge?	MORNING GOING THROUGH TIL
complaints regarding work on the Bridge?  Do you feel you are	MORNING COING THROUGH TIL
complaints regarding work on the Bridge?  Do you feel you are being kept adequately	MORNING GOING THROUGH TIL
complaints regarding work on the Bridge?  Do you feel you are being kept adequately	MORNING COING THROUGH TIL
complaints regarding work on the Bridge?  Do you feel you are being kept adequately	MORNING COING THROUGH TIL
complaints regarding	MORNING COING THROUGH TIL
complaints regarding work on the Bridge?  Do you feel you are being kept adequately informed?	MORNING COINS THROUGH TIL ABOUT HAM.
complaints regarding work on the Bridge?  Do you feel you are being kept adequately informed?  Suggestions or	NOT TO BAD  ONE WHAT UNDER NORTHERN
complaints regarding work on the Bridge?  Do you feel you are being kept adequately informed?	NOT TO BAD  ONE NEAT UNDER NORTHERN END OF BRIDGE, NAS BEEN.
complaints regarding work on the Bridge?  Do you feel you are being kept adequately informed?  Suggestions or	NOT TO BAD  ONE WHAT UNDER NORTHERN
complaints regarding work on the Bridge?  Do you feel you are being kept adequately informed?  Suggestions or	MORNING COINS TURDUCH TIL ABOUT HAM!  NOT TO BAD  ONE LIGHT UNDER NORTHERN  END OF BRIDGE, NAS BEEN.
complaints regarding work on the Bridge?  Do you feel you are being kept adequately informed?  Suggestions or	MORNING COINS THROUGH TIL ABOUT HAM NOT TO BAD ONE LIGHT UNIER NORTHERN END OF BRIDGE HAS BEEN: HANGING DOWN FOR 18 MONTHS
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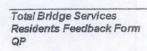


AHB LC	OCAL RESIDENT FEEDBACK FORM
Date:	January 2003
Major Work Carried	Blasting and Painting
Out this year (2002):	Walkway Construction
	Resurfacing
	Weld Repairs
Name: Address:	SO(2)(a)  JIOKES POINT  MORTHEOTE 1509
Phone No:	s9(2)(a)  NSCE RESPONSIBILITY
Do you have any complaints regarding work on the Bridge?	NEEDS TAR SEAL ON GROWN D TO STOP DUST PROBLEM
Do you feel you are being kept adequately informed?	155
Suggestions or comments:	
Please Contact the foll queries:	lowing with any Paul Cannons (Project Manager) Tel: \$9(2)(a)
Date: 14 / /	/ 03





AHB LC	CAL RESIDENT	FEEDBAC	CK FORM	
Date:	January 2003			
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queries:		Tel: s9(2)		
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Date: 13 / 1	103			
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Total Bridge Services Residents Feedback Form QP

