

FOR: Laing O'Rourke SURVEYED ON: 18<sup>th</sup> – 20<sup>th</sup> July 2006

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Shield Environmental Services Ltd (Surveying Division) wish to advise our client/s that no obligation (actual, assumed or otherwise) maybe placed upon the client, for further work related to the recommendations from this report.

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# 1: REPORT DETAILS

SURVEY CONSULTANTS	-	Shield Environmental Services Ltd. (Surveying Division) Shield House, Caxton Business Park, Crown Way, Warmley, Bristol, BS30 8XJ
SURVEY CONDUCTED BY	-	Wayne Hick
SUPERVISED BY	-	Kevin Staniforth
SURVEY DATE(S)	-	18 <sup>th</sup> – 20 <sup>th</sup> July 2006
REPORT DATE	-	30 <sup>th</sup> August 2006
REPORT ISSUED	-	31 <sup>st</sup> August 2006
REPORT REFERENCE	-	2722/WH/0706
CLIENT	-	Laing O'Rourke Severn Bridge, Maintenance Unit, Bridge Access Road Aust, Bristol, BS35 4BD
CLIENT CONTACT	-	Mr John Sidebotham
REPORT REVIEWED BY	-	Jon House
SIGNED	-	

Please note Shield Environmental Services Ltd (Surveying Division) cannot be held responsible for the way in which the Client may interpret or act upon the results of this report.

## 2: SUMMARY

A Type 2 Standard Sampling Asbestos Survey, carried out in accordance with in-house asbestos surveying procedures and HSE guidance document MDHS 100 was conducted to the Second Severn Crossing, M4, South Wales.

The survey was carried out by Shield Environmental Services Ltd (Surveying Division) on behalf of Laing O' Rourke on  $18^{th} - 20^{th}$  July 2006.

The purpose of this survey was to locate, as far as reasonably practicable, the presence and extent of all suspected Asbestos Containing Materials (ACMs) in the building(s) and assess their condition.

During the survey no samples of suspected ACMs were taken for analysis.

ACMs were presumed in the form of:

• Friction product (e.g brakes, clutch plates, drive belts).

# 3: AN INTRODUCTION TO ASBESTOS

## What is Asbestos?

Asbestos is the collective term used to describe a family of several types of naturally occurring mineral rock. The three main types of asbestos minerals are commonly called Blue (Crocidolite), Brown (Amosite) and White (Chrysotile).

# How does Asbestos get into the body?

Asbestos fibres enter the body through inhalation via the nose and mouth from where they can pass into lungs and attack the respiratory system.

## Why is Asbestos dangerous?

Exposure to asbestos fibres can lead to the development of one of three fatal diseases:

- Asbestosis (scarring of the lung)
- Lung cancer
- Mesothelioma (cancer of the lung and stomach lining)

According to the Health and Safety Executive (HSE), such diseases are currently responsible for almost 3000 deaths a year in the UK, a quarter of which are people who worked in the building trade. Research undertaken by Professor Julian Peto and HSE epidemiologists in 1995 suggests that this figure could increase to more than 10,000 deaths per year by 2020.

## Where is Asbestos found in buildings?

Due to their distinct chemical, mechanical and physical characteristics, significant amounts of asbestos were used over the last century in the construction of industrial, commercial and domestic properties throughout the UK. Its most common uses were:

- Sprayed asbestos (limpet) on steelwork
- Thermal insulation (lagging) on pipework and boilers.
- Asbestos insulating board (AIB) ceiling tiles, wall panels, firebreaks and soffits.
- Asbestos cement products corrugated sheeting, heater flue pipes and rainwater goods.
- Other products including floor tiles, decorative coatings, mastics/sealants, pipework gaskets and roofing felt containing asbestos.

## Who is currently at risk?

All occupants of buildings containing asbestos where it is not appropriately managed, and particularly building maintenance workers such as plumbers, carpenters, electricians, computer/cabling installers and telecommunication engineers, all whom may routinely disturb asbestos materials in their day to day work.

Accumulated over time such repeated exposures could lead to the development of asbestos related diseases.

# 3: AN INTRODUCTION TO ASBESTOS (continued)

## New Regulations

In response to the risks of exposure to asbestos, the Government introduced the Control of Asbestos at Work Regulations (CAW) 2002 in October 2002. The aim is to ensure that all materials that contain asbestos are identified and managed in a way that protects employees and other users of buildings from these risks.

Regulation 4 of CAW 2002, requires the "Duty Holder"\* of all non-domestic properties to produce a written management plan specifying the measures to be taken to control and manage the risks posed by exposure to asbestos-containing materials in their premises.

The Duty Holder is responsible for:

- Assessing whether premises contain asbestos;
- Assessing the risk from asbestos; and
- Taking action to manage the risk from asbestos.

The Regulations are now in force and require an Asbestos Management plan to of been in place for every workplace since May 2004.

\*The "Duty Holder" is primarily the person who has maintenance and repair responsibilities for the premises in question through contract or tenancy or where there is no contract or tenancy the duty falls to the person in control of a premises.

# 4: INTRODUCTION

Shield Environmental Services Ltd (Surveying Division) has been instructed to carry out an asbestos survey by; Laing O' Rourke (Mr John Sidebotham).

To ascertain the possibility of any asbestos containing materials within; Second Severn Crossing, M4, South Wales.

## Description of Site

The new Severn Bridge consists of three main sections; Gwent, Avon and the Main Span, each of which are subdivided into respective north & South viaducts.

## Survey Type

The nature of the survey is a Type 2 Standard Sampling Survey as detailed in HSE publication MDHS 100 Surveying, Sampling and Assessment of Asbestos Containing Materials. The purpose of the survey is to locate, as far as reasonably practicable, the presence and extent of any suspect ACMs in the building and assess their condition.

This report presents the findings of the survey and analysis reports of any bulk samples taken.

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# **5: SCOPE OF SURVEY**

- Areas Included in the Survey:
  - o All areas of the Second Severn Crossing.
- Areas Excluded from the Survey: . o None.
- Inaccessible areas encountered during the time of the survey, for which no information was obtained: • • Electrical switch gear and plant equipment – No access due to their live status.
- Variations or Deviations from the standard MDHS 100 method: . o None.
- Comments / Exclusions:
  - o See above comments.

# **FLOOR PLANS**

Where provided floor plans should be regarded as sketch-plans and for identification purposes only. They are intended to provide a visual appreciation of the buildings surveyed, showing locations of suspected ACMs, areas of no access and where samples were taken.

# 6: LIMITATIONS OF THE REPORT

This report only relates to the situation on the day(s) of the inspection and cannot take into account subsequent changes in circumstances. Materials were only sampled where the surveyor considered there was a high probability that they may contain asbestos. This report contains findings based upon visual inspection and results of laboratory analysis. During the course of the survey all reasonable efforts were made to identify the presence of asbestos containing materials within the surveyed areas.

The scope of work requested is limited to the areas as identified by the client.

However, asbestos containing materials are sometimes concealed within the fabric of a building or within sealed building voids, so it is not always possible to regard the findings of any survey as being definitive. Therefore, it must always remain a possibility that further asbestos containing materials may be found during any alteration, refurbishment or demolition works.

Where areas have been identified as inaccessible within the report, it indicates that the area specified was not accessible to the surveyor at the time of the inspection, either because such areas were locked or to gain entry would require an unreasonable degree of dismantling to the structure of the building. The client is therefore advised to the possibility of there being asbestos containing materials in such areas.

Manufactured products containing asbestos have been extremely diverse. Therefore, responsibility cannot be accepted for any consequential loss or damage resulting from non-recognition of a material that is later established as having an asbestos content.

Figures quoted in the asbestos register detailing the extent of ACMs are approximate based on visual inspection on the day of the survey and should be used as a guide only.

No responsibility can be taken for any misinterpretation of this report by third parties.

#### Please Note:

The completion of this Type 2 (Sampling) Survey report does not negate the Duty Holders responsibility to commission a Type 3 (Demolition / Major Refurbishment) Survey prior to the commencement of any alteration, refurbishment or demolition works.

# 7: SURVEY METHOD

The survey is conducted in accordance with our in-house asbestos surveying procedures and HSE guidance document MDHS 100. Where appropriate, bulk samples of suspected ACMs are taken from the property.

Representative samples are also taken of any materials that may be confused with ACMs. Sampling location stickers, bearing the individual samples unique identification number, are applied to all sample points where practicable, for future reference.

Products that are very unlikely to contain asbestos are not sampled (e.g. wall paper, plasterboard, chipboard, wood etc).

All samples taken are sent to a UKAS Accredited Laboratory for analysis by polarised light microscopy (PLM) as per the method prescribed in HSG248 Asbestos: The analysts' guide for sampling, analysis and clearance procedures. Completed bulk sample analysis test reports for all samples taken are appended for client review.

A Survey Report Form (SRF) is completed for each suspect sample taken, for materials strongly presumed to contain asbestos (i.e. materials visually similar to positively identified ACMs) and for areas presumed to contain asbestos (i.e. areas where no access could be gained at the time of the survey and non-accessed items of (electrical) equipment and plant.

Each SRF contains a colour photograph, individual material risk assessment scores (as prescribed under MDHS 100), management recommendations and general observations / comments (where appropriate).

The SRFs are combined together to form a site-specific asbestos register.

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## 8: MATERIAL RISK ASSESSMENT

The new duty to manage asbestos in work place premises under CAW 2002 requires a written plan to be produced, specifying measures to be taken to control and manage the risk from identified, presumed and strongly presumed ACMs. An important stage of this process is to assess the potential for fibre release of each ACM found. To help make the assessment in a structured and recordable way, an in house standard material assessment algorithm has been developed in accordance with MDHS 100 to establish a management priority.

The four main parameters, which determine the amount of fibre release from an ACM when subject to standard disturbance, are:

- Product Type
- Extent of Damage or Deterioration
- Surface Treatment
- Asbestos Type

Each parameter is scored as: high = 3, medium = 2 or low = 1(Very low); two categories also allow a nil score. The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACMs are scored as Crocidolite (3), unless analysis or similar samples from the building shows a different asbestos type, or there is a reasoned argument that another type of asbestos was almost always used.

The potential for fibre release, based on total score are assessed accordingly:

Assessment Score	Potential for Fibre Release
>10	High
7 to 9	Medium
5 to 6	Low
>4	Very Low

Non-asbestos materials are not scored.

Samples found not to contain asbestos after analyses are recorded as NAD (No Asbestos Detected).

Where ACMs are presumed to be present and have not been identified due to access restrictions, it is strongly recommended that these areas be tested for ACMs prior to any work commencing.

Material Risk Assessment Algorithm scores are reported in individual SRFs.

Comments regarding the likelihood of disturbance to ACMs are also included in individual SRFs where applicable. Accessibility / Vulnerability are classified as follows:

VERY LOW	-	Usually inaccessible or unlikely to be disturbed.
LOW	-	Occasionally likely to be disturbed.
MEDIUM	-	Easily disturbed.
HIGH	-	Routinely disturbed.

# 9: MANAGEMENT OF ASBESTOS

Recommended management and control actions are provided for each ACM identified, presumed or strongly presumed. They are obtained by combining the results of individual material risk assessment scores with site-specific criteria identified by the surveyor during the course of the survey and in consultation with the client.

Site factors taken into account may include maintenance activity, occupant activity, likelihood of disturbance and human exposure potential (i.e. number of occupants / frequency of use / average time area is in use).

Recommended management and control actions are provided on each SRF where applicable, examples of which are detailed below.

Management Actions Communicate with employees, contractors and others. Monitor condition of the ACM (Regular Inspection / Maintain and up date logs of ACMs. Put a safe system of work in place (Operate a permit to work system).

Control Actions Label the ACM (Use approved warning signs or adopt colour code system). Protect / enclose the ACM. Seal / encapsulate the ACM. Repair the ACM. Remove the ACM. Restrict Access / Isolate ACM.

Please note any management or control actions provided by Shield Environmental Services Ltd (Surveying Division) must be treated as recommendations only.

Further guidance for duty holders responsible for producing a management plan for ACMs can be obtained from the HSE publication: -

• A Comprehensive Guide to Managing Asbestos in Premises (HSG 227).

# 10: GENERAL EXCLUSIONS

- 1. The survey was limited to those areas accessed at the time of the Survey.
- 2. We have not inspected flues, ducts voids or any similarly enclosed areas, the access to which necessitated the use of specialist equipment or tools, or which would have caused damage to decoration, fixtures, fittings or the structure. Therefore we are unable to report on any asbestos as may be present in these areas.
- 3. We have not inspected any areas or surfaces that would require the removal or relocation of carpets, furniture, blinds, curtains, fixtures etc.
- 4. We have not inspected any part requiring specialist access equipment other than using stepladders to a maximum height of 3 metres. Any requirement for specialist access equipment has been specifically excluded unless otherwise stated.
- 5. We have not reported on concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility or insufficient knowledge of the structure at the time of the survey.
- 6. No responsibility is accepted for the presence of asbestos in voids (under floor, floor, wall or ceiling) other than those opened up during the investigation.
- 7. Samples have not been taken where the act of sampling would endanger the surveyor or affect the functional integrity of the item concerned. For example; fuses within electrical boxes, gaskets, fire doors, and ropes associated with heating, glazing or power plant etc.
- 8. Representative bulk samples have been taken from all materials, which upon visual inspection appeared likely to contain asbestos.
- 9. A limited inspection only has been carried out of pipework concealed by overlying non-asbestos insulation. Inspection of pipework has been restricted primarily to the insulation visible. The presence of asbestos debris to pipework, which is not readily visible or would require the full removal and replacement of overlying insulation, has therefore not been investigated.
- 10. Manufactured products containing asbestos have been extremely diverse, therefore responsibility cannot be accepted for any consequential loss or damage resulting from non-recognition of a material which is later established as having an asbestos content. Certain 'Artex' type textured coatings and decorative plasters may contain very small quantities of asbestos. In situ, these coatings are often composed of different batches of product or may have been repaired/patched at different times. It is, therefore, possible that any 'Artex' samples taken may not be representative of the entire coating. Recent research suggests that in some cases, the fibres may have diameters below 0.1 um. These may not be visible by the optical microscopy method described in HSE publications HSG248.

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## 11: REFERENCES

- 1. The Control of Asbestos at Work Regulations (CAW) 2002 The Stationary Office 2002, ISBN 0 7176 2382.
- 2. Surveying, Sampling and Assessment of Asbestos Containing Materials (MDHS 100) HSE Books 2001, ISBN 0 7176 2076X.
- 3. A Comprehensive Guide to Managing Asbestos in Premises (HSE 2002, HSG 227, ISBN 0 7176 2381 5).
- 4. Asbestos: The analysts' guide for sampling, analysis and clearance procedures (HSG248, ISBN 0-7176-2875-2).

12: ASBESTOS REGISTER

SURVEY REF NO. 2722/WH/0706	SITE: Second Se	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	1	OF	25
SAMPLE NO:		No Sample Taken						
LOCATION:		South Viaduct				14		
POSITION:		Piers 40 – 48						
DESCRIPTION:		Not Applicable	1 7 18 1915				66	
PRODUCT TYPE:		Not Applicable	- THERE		-11			
EXTENT (APPROX):		Not Applicable					-	
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbest Asbestos Detected	os Detected,	Presumed Not To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable	Are White and an					
SURFACE TREATMENT:		Not Applicable						

A Pro	oduct Type	В	Exte	ent of Damage/Deterioration		C	Surface Treatment	D	Asbestos Type
1	Asbestos reinforced composites resins, mastics, roofing felts, vinyl fl semi-rigid paints, decorative finishes, cement etc)	loor tiles,	2 0 Good condition: no visible damage			0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	and felt.			Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.			Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.			Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.			Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
		3		High damage or delaminating: c thermal insulation. Visible asbes		3	Unsealed lagging and sprays.		
Α		В				с		D	
TOTAL SCORE NOT APPLICABLEMATERIAL ASSE PRIORITY NOT APPLICA(A+B+C+D = (1-4 Very Low) (5-6 Low) (7-9 Medium) (>10 High)NOT APPLICA				RIORITY	COMMENTS: N 48.	lo v	sible suspect or presumed ACMs	obs	served within the pier 40-

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	2	OF	25
SAMPLE NO:		No Sample Taken Due To Live Status			9	1	-	
LOCATION:		South Viaduct Avon		-	and the second second	-		
POSITION:		Sub-station P – 6					2	
DESCRIPTION:		Electrical Switchgear	I III MEAN OF ALL	C D		Sent.	01	
PRODUCT TYPE:		Unknown						
EXTENT (APPROX):		Unknown			M		tillite.	
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Ast Asbestos Detected	pestos Detected,	Presumed To Contain Asbestos		A.	-			
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Low		/4				
SURFACE TREATMENT:		Sealed Units			Miles .			

AP	rod	uct Type	B	Exte	nt of Damage/Deterioration		C	Surface Treatment	D	Ask	pestos Type
1		Asbestos reinforced composites (plas resins, mastics, roofing felts, vinyl floor ti semi-rigid paints, decorative finishes, asbes cement etc)	tiles,		Good condition: no visible damage			Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	and felt.				Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.			Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3 Thermal insulating (e.g. pipe and boiler 3 lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.			, 2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.			Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
					High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.			Unsealed lagging and sprays.			
Α			в				С		D		
TOTAL SCORE NOT APPLICABLEMATERIAL ASSESSMENT PRIORITY NOT APPLICABLE(A+B+C+D = (1-4 Very Low) (5-6 Low) (7-9 Medium) (>10 High)NOT APPLICABLE					RIORITY			ccess to electrical switch gear due ain asbestos. Exercise caution unt			

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Da	ate: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	3	OF	25
SAMPLE NO:		No Sample Taken Due To Live Status				C.			
LOCATION:		South Viaduct Avon		TA SIE			-		
POSITION:		Sub-station P – 5		INTERNAL SALE		IN THE REAL PROPERTY IN			
DESCRIPTION:		Electrical Switchgear		a la					
PRODUCT TYPE:		Unknown						0	
EXTENT (APPROX):		Unknown				4		1.	
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbe Asbestos Detected	estos Detected,	Presumed To Contain Asbestos					-		
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Low					1		
SURFACE TREATMENT:		Sealed			1000		1		

AF	Prod	uct Type	BI	Exte	nt of Damage/Deterioration	C	Sur	face Treatment	D	Ask	bestos Type
1		Asbestos reinforced composites (plastics resins, mastics, roofing felts, vinyl floor tiles semi-rigid paints, decorative finishes, asbesto cement etc)	, 0		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	2 Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles gaskets, ropes, woven textiles, asbestos paper and felt.				Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.			Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3		Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.	2		Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
					High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.			Unsealed lagging and sprays.			
А			в			С			D		
NC (A-	ОТ +B+	AL SCORE APPLICABLE C+D = (1-4 Very Low) w) (7-9 Medium) (>10 High)	Ρ				ess to electrical switch gear due asbestos. Exercise caution unti				

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	4	OF	25
SAMPLE NO:		No Sample Taken						
LOCATION:		South Viaduct Avon					1	
POSITION:		Piers 33 – 59						
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable					1	
EXTENT (APPROX):		Not Applicable						
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asl Asbestos Detected	pestos Detected,	Presumed Not To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable					- Su	
SURFACE TREATMENT:		Not Applicable						

AF	roc	luct Type	BE	Exte	nt of Damage/Deterioration		CS	Surface Treatment	D	Asb	estos Type
1		Asbestos reinforced composites (plasti resins, mastics, roofing felts, vinyl floor til semi-rigid paints, decorative finishes, asbes cement etc)	iles,		Good condition: no visible damage		0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2		Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes, woven textiles, asbestos paper and felt.				marks; broken	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.				Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
			3		High damage or delaminating: of materials thermal insulation. Visible asbestos debris		3	Unsealed lagging and sprays.			
Α			в				С		D		
NC (A-	Image: Not ApplicAble Material assessment priority   (A+B+C+D = (1-4 Very Low) NOT ApplicAble   5-6 Low) (7-9 Medium) (>10 High) NOT ApplicAble					IMENTS: N	VC	sible suspect or presumed ACMs	obs	ser	ved within the pier 33-

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	5	OF	25
SAMPLE NO:		No Sample Taken					/	
LOCATION:		South Viaduct Avon					1	
POSITION:		Piers 26 – 32						
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable			-		1	
EXTENT (APPROX):		Not Applicable						
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asl Asbestos Detected	pestos Detected,	Presumed Not To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable					- 40	
SURFACE TREATMENT:		Not Applicable						

A Pro	oduct Type	В	Exte	ent of Damage/Deterioration	С	Sur	rface Treatment	D	Ask	pestos Type
1	Asbestos reinforced composites (plastic resins, mastics, roofing felts, vinyl floor tile semi-rigid paints, decorative finishes, asbest cement etc)	es, o		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textile gaskets, ropes, woven textiles, asbestos pape and felt.			Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.			Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.			Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.			Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
				High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3		Unsealed lagging and sprays.			
Α		в			С			D		
NO <sup>-</sup> (A+B	TAL SCORE M   T APPLICABLE M   B+C+D = (1-4 Very Low) .ow) (7-9 Medium) (>10 High)	Ρ	L ASSESSMENT RIORITY APPLICABLE	No v	visi	ible suspect or presumed ACMs of	obs	ser	ved within the pier 26-	

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF
SAMPLE NO:		No Sample Taken Due To Live Status		-
LOCATION:		South Viaduct Avon		Sec. 101-11
POSITION:		Sub-station P – 4 – Pylon – Ms		no
DESCRIPTION:		Electrical Switchgear		
PRODUCT TYPE:		Unknown		
EXTENT (APPROX):		Unknown		
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbe Asbestos Detected	estos Detected,	Presumed To Contain Asbestos		-
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Low		and a second
SURFACE TREATMENT:		Sealed Units	A State Stat	4

AF	rod	luct Type	BB	Exte	nt of Damage/Deterioration	С	Su	rface Treatment	D	Ask	pestos Type
1		Asbestos reinforced composites (plas resins, mastics, roofing felts, vinyl floor ti semi-rigid paints, decorative finishes, asbes cement etc)	tiles,		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2		Asbestos insulating board, millboards, other low-density insulation boards, asbestos texti gaskets, ropes, woven textiles, asbestos pap and felt.	tiles, 1		Low damage: a few scratches or surface marks; bro edges on boards, tiles, etc.	<sup>ken</sup> 1		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.				Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.			Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
				High damage or delaminating: of materials, sprays a thermal insulation. Visible asbestos debris.	<sup>nd</sup> 3		Unsealed lagging and sprays.				
Α			в			с			D		
TOTAL SCORE MATERIAL ASSESSMENT   NOT APPLICABLE PRIORITY   (A+B+C+D = (1-4 Very Low) NOT APPLICABLE   (5-6 Low) (7-9 Medium) (>10 High) NOT APPLICABLE					L ASSESSMENT presumed RIORITY established	to cont		cess to electrical switch gear due n asbestos. Exercise caution unti			

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

PAGE

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OF

25

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	7	OF	25
SAMPLE NO:		No Sample Taken		AC. A		P	-61	
LOCATION:		Main Span		11			1	
POSITION:		Walkways		-				
DESCRIPTION:		Not Applicable		The second				
PRODUCT TYPE:		Not Applicable						
EXTENT (APPROX):		Not Applicable						
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbest Asbestos Detected	stos Detected,	Presumed Not To Contain Asbestos					ļ	
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable		Y				
SURFACE TREATMENT:		Not Applicable		11000				

AP	Product Typ	ре		B Ext	ent of Damage/Deterioration		C	Surface Treatment	D	Asbestos Type
1	resins,	tos reinforced composites ( , mastics, roofing felts, vinyl flo igid paints, decorative finishes, a nt etc)	oor tiles,	0	Good condition: no visible dama	age	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	gaskets, ropes, woven textiles, asbestos paper 1 edges on boards, tiles, etc. and felt.				Low damage: a few scratches o edges on boards, tiles, etc.	or surface marks; broken	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.			2	Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
				3	High damage or delaminating: of thermal insulation. Visible asbe		3	Unsealed lagging and sprays.		
Α				в			с		D	
NC (A-	TOTAL SCORE NOT APPLICABLEMATERIAL ASSESSMENT PRIORITY NOT APPLICABLE(A+B+C+D = (1-4 Very Low) (5-6 Low) (7-9 Medium) (>10 High)NOT APPLICABLE					COMMENTS: N Span.	o v	isible suspect or presumed ACMs	obs	served within the Main

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	8	OF	25
SAMPLE NO:		No Sample Taken			14	/	1	
LOCATION:		North Viaduct Avon				//	/	
POSITION:		Pier 26 – 33					2	
DESCRIPTION:		Not Applicable	and the second s					
PRODUCT TYPE:		Not Applicable	the first section of the section of					
EXTENT (APPROX):		Not Applicable						
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asl Asbestos Detected	pestos Detected,	Presumed Not To Contain Asbestos	102				120	
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable	and the particular second					

AF	Produ	uct Type	BE	Exte	nt of Damage/Deterioration		CS	Surface Treatment	D	Asbestos Type
1		Asbestos reinforced composites (plas resins, mastics, roofing felts, vinyl floor t semi-rigid paints, decorative finishes, asbe cement etc)	tiles,		Good condition: no visible damage	e	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles gaskets, ropes, woven textiles, asbestos paper and felt.		tiles, 1		Low damage: a few scratches or s edges on boards, tiles, etc.	surface marks; broken	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.				Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
			3		High damage or delaminating: of r thermal insulation. Visible asbesto		3	Unsealed lagging and sprays.		
Α			в				с		D	
NC (A·	TOTAL SCORE MATERIAL ASSESSMENT   NOT APPLICABLE PRIORITY   (A+B+C+D = (1-4 Very Low) NOT APPLICABLE   (5-6 Low) (7-9 Medium) (>10 High) NOT APPLICABLE					COMMENTS: N 33.	οv	sible suspect or presumed ACMs	obs	served within the pier 26-

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	9	OF	25
SAMPLE NO:		No Sample Taken			11	/	1	
LOCATION:		North Viaduct Avon				11	/	
POSITION:		Piers 34 – 41					2	
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable	1 pm marsh					
EXTENT (APPROX):		Not Applicable						
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asl Asbestos Detected	bestos Detected,	Presumed Not To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable						

AP	Product Type	ΒE	Exter	nt of Damage/Deterioration	С	Surface Treatment	D	Asbestos Type
1	Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints, decorative finishes, asbestos cement etc)	0		Good condition: no visible damage	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes, woven textiles, asbestos paper and felt.	1		Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
		3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3	Unsealed lagging and sprays.		
А		в			С		D	
TOTAL SCORE MATERIAL ASSESSMENT   NOT APPLICABLE PRIORITY   (A+B+C+D = (1-4 Very Low) NOT APPLICABLE   (5-6 Low) (7-9 Medium) (>10 High) NOT APPLICABLE				ASSESSMENT 41. RIORITY	o v	isible suspect or presumed ACMs	obs	erved within the pier 34-

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	10	OF	25
SAMPLE NO:		No Sample Taken Due To Live Status	The second second second	-	-	-		
LOCATION:		Ground Floor						
POSITION:		Avon Electrical Building			E I			
DESCRIPTION:		Electrical Switchgear			T	4		
PRODUCT TYPE:		Unknown						
EXTENT (APPROX):		Unknown	THE R. LEWIS CO., LANSING MICH.	-	1			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Ast Asbestos Detected	pestos Detected,	Presumed To Contain Asbestos		ME		H		
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Low		SHS	HL	and a		
SURFACE TREATMENT:		Sealed Units		Maria	(			

A Pro	oduct Type	BE	Exte	nt of Damage/Deterioration	С	Surface Treatment	D	Ask	pestos Type
1	Asbestos reinforced composites (plasti resins, mastics, roofing felts, vinyl floor till semi-rigid paints, decorative finishes, asbest cement etc)	les,		Good condition: no visible damage	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textile gaskets, ropes, woven textiles, asbestos pape and felt.	les, 1		Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
		3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3	Unsealed lagging and sprays.			
Α		в			С		D		
NOT (A+B	TAL SCORE M   T APPLICABLE S+C+D = (1-4 Very Low)   S+C+D = (1-4 Very Low) (>10 High)		P			ccess to electrical switch gear due ain asbestos. Exercise caution unt			

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	11	OF	25
SAMPLE NO:		No Sample Taken			11	/	1	
LOCATION:		North Viaduct Gwent			11	11	/	
POSITION:		Piers 42 – 48					2	
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable	The second se					
EXTENT (APPROX):		Not Applicable						
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Ast Asbestos Detected	pestos Detected,	Presumed Not To Contain Asbestos	100					
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable						

A Pro	oduct Type	В	Exte	ent of Damage/Deterioration	С	Sur	face Treatment	D	Asł	bestos Type
1	Asbestos reinforced composites (plastics resins, mastics, roofing felts, vinyl floor tiles semi-rigid paints, decorative finishes, asbestos cement etc)	0		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes, woven textiles, asbestos paper and felt.	1		Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.	1		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.			Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.			Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
		3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3		Unsealed lagging and sprays.			
Α		в			С			D		
NOT (A+B	TAL SCORE T APPLICABLE H+C+D = (1-4 Very Low) Low) (7-9 Medium) (>10 High)	Ρ	L ASSESSMENT RIORITY APPLICABLE	lo v	visi	ble suspect or presumed ACMs o	bs	ser	ved within the pier 42-	

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	12	OF	25
SAMPLE NO:		No Sample Taken Due To Live Status		-	-	10	1	
LOCATION:		North Viaduct Gwent						
POSITION:		Sub-station P – 1			-		$\sum_{i=0}^{n}$	
DESCRIPTION:		Electrical Switchgear			The last	T	the second	
PRODUCT TYPE:		Unknown		10 0				
EXTENT (APPROX):		Unknown			An		-	
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbes Asbestos Detected	tos Detected,	Presumed To Contain Asbestos		ho			n (	
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Low	1		1			
SURFACE TREATMENT:		Sealed Units					1	

A Pro	oduct Type	E	B Exte	ent of Damage/Deterioration		C	Surface Treatment	D	Ast	pestos Type
1	Asbestos reinforced composites resins, mastics, roofing felts, vinyl fl semi-rigid paints, decorative finishes, cement etc)	(plastics, loor tiles,	)	Good condition: no visible dama	ge	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	gaskets, ropes, woven textiles, asbestos paper 1 edges on boa and felt.			Low damage: a few scratches of edges on boards, tiles, etc.	r surface marks; broken	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiled lagging) sprayed asbestos, loose asbe asbestos mattresses and packing.		2	Medium damage: significant bre several small areas where mate revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
		з	3	High damage or delaminating: o thermal insulation. Visible asbes		3	Unsealed lagging and sprays.			
Α		E	3			С		D		
NO <sup>-</sup> (A+B	<b>TAL SCORE</b> T APPLICABLE B+C+D = (1-4 Very Low) _ow) (7-9 Medium) (>10 High)		Ρ	L ASSESSMENT RIORITY APPLICABLE			ccess to electrical switch gear due ain asbestos. Exercise caution unt			

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	13	OF	25
SAMPLE NO:		No Sample Taken					1	
LOCATION:		North Viaduct Gwent					1	
POSITION:		Piers 1 – 8	21111			11	10	
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable		and the second				
EXTENT (APPROX):		Not Applicable	ALL HARD		-			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asi Asbestos Detected	bestos Detected,	Presumed Not To Contain Asbestos	at and the has					
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable				400		

AF	rod	uct Type	В	Exte	nt of Damage/Deterioration	С	Sur	face Treatment	D	Asbestos Type
1		Asbestos reinforced composites (plastic resins, mastics, roofing felts, vinyl floor tile semi-rigid paints, decorative finishes, asbesto cement etc)	s, o		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	gaskets, ropes, woven textiles, asbestos paper and felt.			Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.	1		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)	
3		Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.	2		Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
			3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3		Unsealed lagging and sprays.		
Α			в			С			D	
NC (A-	NOT APPLICABLE				L ASSESSMENT RIORITY APPLICABLE	lo v	isi	ble suspect or presumed ACMs o	obs	served within the pier 1-8.

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	14	OF	25
SAMPLE NO:		No Sample Taken						
LOCATION:		North Viaduct Gwent					1	l
POSITION:		Piers 9 – 16	211101				C.	
DESCRIPTION:		Not Applicable						l
PRODUCT TYPE:		Not Applicable		- Eta M				
EXTENT (APPROX):		Not Applicable	ALL HITCH		-			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbe Asbestos Detected	estos Detected,	Presumed Not To Contain Asbestos					-	
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable					51	
SURFACE TREATMENT:		Not Applicable			1999			

AF	Prod	luct Type	В	Exte	nt of Damage/Deterioration	C	Sur	face Treatment	D	Ask	pestos Type
1		Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints, decorative finishes, asbestos cement etc)	0		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2		Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes, woven textiles, asbestos paper and felt.	boards, asbestos textiles, textiles, asbestos paper 1 Low damage: a few scratches edges on boards, tiles, etc.			1		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3		Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.	2		Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
			3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3		Unsealed lagging and sprays.			
Α			в			С			D		
NC (A-	TOTAL SCORE MAT				L ASSESSMENT RIORITY APPLICABLE	lo v	isi	ble suspect or presumed ACMs o	obs	ser	ved within the pier 9-

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	15	OF	25
SAMPLE NO:		No Sample Taken					1	
LOCATION:		North Viaduct Gwent					1	
POSITION:		Piers 17 – 23	21111			112	é	
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable		And the second second				
EXTENT (APPROX):		Not Applicable			-			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No As Asbestos Detected	bestos Detected,	Presumed Not To Contain Asbestos	at the first					
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable						

AF	rod	luct Type	BB	Exte	nt of Damage/Deterioration		CS	Surface Treatment	D	Asbestos Type
1		Asbestos reinforced composites (plasti resins, mastics, roofing felts, vinyl floor till semi-rigid paints, decorative finishes, asbest cement etc)	les,		Good condition: no visible damage	9	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	gaskets, ropes, woven textiles, asbestos paper and felt.			Low damage: a few scratches or s edges on boards, tiles, etc.	surface marks; broken	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)	
3		Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	2		Medium damage: significant break several small areas where materia revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
			3		High damage or delaminating: of n thermal insulation. Visible asbesto		3	Unsealed lagging and sprays.		
Α			в				с		D	
NC (A·	TOTAL SCORE MATER					COMMENTS: N 23.	0 V	isible suspect or presumed ACMs	obs	served within the pier 17-

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second Severn Crossin	ng, M4, South Wales	Date: 18 <sup>th</sup> - 20 <sup>th</sup> Ju
SAMPLE NO:	No Sample T	aken Due To Live Status	
LOCATION:	North Viaduc	t Gwent	
POSITION:	Sub-station F	<sup>2</sup> – 2	
DESCRIPTION:	Electrical Sw	itchgear	
PRODUCT TYPE:	Unknown		
EXTENT (APPROX):	Unknown		
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbes Asbestos Detected	os Detected, Presumed To	o Contain Asbestos	
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High	Low		
SURFACE TREATMENT:	Sealed Units		



A Pro	oduct Type	BE	Exte	nt of Damage/Deterioration	С	Surface Treatment	D	Asł	bestos Type
1	Asbestos reinforced composites (pla resins, mastics, roofing felts, vinyl floor semi-rigid paints, decorative finishes, asb cement etc)	tiles,		Good condition: no visible damage	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	Asbestos insulating board, millboards, othe low-density insulation boards, asbestos tex gaskets, ropes, woven textiles, asbestos pa and felt.	xtiles, 1		Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos asbestos mattresses and packing.	s, 2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
				High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3	Unsealed lagging and sprays.			
Α		в			С		D		
NO1 (A+B	TAL SCORE TAPPLICABLE +C+D = (1-4 Very Low) .ow) (7-9 Medium) (>10 High)		P	L ASSESSMENT RIORITY APPLICABLE	lo a ont	ccess to electrical switch gear du ain asbestos. Exercise caution un	e to til fu	its III (	live status, therefore content can be

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	17	OF	25
SAMPLE NO:		No Sample Taken Due To Live Status		9				
LOCATION:		North Viaduct Gwent	The state of	and the	100	1		
POSITION:		Sub-station P – 3 Pylon M – 1		1		1		
DESCRIPTION:		Electrical Switchgear			The second	M	1	
PRODUCT TYPE:		Unknown					1	
EXTENT (APPROX):		Unknown		-				
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Ast Asbestos Detected	pestos Detected,	Presumed To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Low			0			
SURFACE TREATMENT:		Sealed Units	and the second s					

A P	rod	luct Type	В	Exte	nt of Damage/Deterioration	(	S	urface Treatment	D	Asbe	estos Type
1		Asbestos reinforced composites (plastic resins, mastics, roofing felts, vinyl floor tile semi-rigid paints, decorative finishes, asbesto cement etc)	s, s,		Good condition: no visible damage	(	)	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2				Low damage: a few scratches or surface marks; l edges on boards, tiles, etc.	proken		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)	
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.				Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
					High damage or delaminating: of materials, spray thermal insulation. Visible asbestos debris.	s and	3	Unsealed lagging and sprays.			
Α			в			c			D		
TOTAL SCORE MATERIAL ASSESSMENT   NOT APPLICABLE PRIORITY   (A+B+C+D = (1-4 Very Low) NOT APPLICABLE   (5-6 Low) (7-9 Medium) (>10 High) NOT APPLICABLE					L ASSESSMENT presume RIORITY establish	d to con		cess to electrical switch gear due in asbestos. Exercise caution unti			

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	18	OF	25
SAMPLE NO:		No Sample Taken Due To Live Status		0	5	~		
LOCATION:		Ground Floor		C 1	2		-	
POSITION:		Avon Fire Main Pumping Station				1		
DESCRIPTION:		Electrical Switchgear		A				
PRODUCT TYPE:		Unknown		-	-			
EXTENT (APPROX):		Unknown						
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Ast Asbestos Detected	pestos Detected,	Presumed To Contain Asbestos			Un	•		
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Low		6	-			
SURFACE TREATMENT:		Sealed Units		10	~			

A P	rod	luct Type	BE	Exte	nt of Damage/Deterioration	С	Sur	face Treatment	D	Asb	estos Type
1		Asbestos reinforced composites (plat resins, mastics, roofing felts, vinyl floor semi-rigid paints, decorative finishes, asbe cement etc)	tiles,		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2		Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes, woven textiles, asbestos paper and felt.			Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.			Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3		Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	s, 2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.			Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
					High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3		Unsealed lagging and sprays.			
Α			в			с			D		
TOTAL SCORE NOT APPLICABLEMATERIAL ASSESSMENT PRIORITY NOT APPLICABLE(A+B+C+D = (1-4 Very Low) (5-6 Low) (7-9 Medium) (>10 High)NOT APPLICABLE					L ASSESSMENT presumed to RIORITY established.	No a cont	air	ess to electrical switch gear due asbestos. Exercise caution unti	to fu	its II c	live status, therefore content can be

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	19	OF	25
SAMPLE NO:		No Sample Taken					1	
LOCATION:		South Viaduct Gwent					I.	
POSITION:		Piers 16 – 23	-1000			112	é	
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable		and the				
EXTENT (APPROX):		Not Applicable			-			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asl Asbestos Detected	pestos Detected,	Presumed Not To Contain Asbestos	at at the					
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable				Steel		

AF	rod	luct Type	BE	Exte	nt of Damage/Deterioration		C	Surface Treatment	D	Asbestos Type
1		Asbestos reinforced composites (plasti resins, mastics, roofing felts, vinyl floor til semi-rigid paints, decorative finishes, asbest cement etc)	les,		Good condition: no visible damaç	ge	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles gaskets, ropes, woven textiles, asbestos paper and felt.				Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.		1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.				Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
			3		High damage or delaminating: of thermal insulation. Visible asbest		3	Unsealed lagging and sprays.		
Α			В				С		D	
NC (A-	TOTAL SCORE MATERIAL ASSESSMENT   NOT APPLICABLE PRIORITY   (A+B+C+D = (1-4 Very Low) NOT APPLICABLE   (5-6 Low) (7-9 Medium) (>10 High) NOT APPLICABLE					COMMENTS: N 23.	o v	isible suspect or presumed ACMs	obs	served within the pier 16

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	20	OF	25
SAMPLE NO:		No Sample Taken					1	
LOCATION:		South Viaduct Gwent					)	
POSITION:		Piers 8 – 15	1111			11	1	
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable		and the first				
EXTENT (APPROX):		Not Applicable			-			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asi Asbestos Detected	bestos Detected,	Presumed Not To Contain Asbestos	The states					
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable						

AF	Prod	uct Type	BI	Exte	nt of Damage/Deterioration	С	Surface Treatment	D	Asbestos Type
1		Asbestos reinforced composites (plat resins, mastics, roofing felts, vinyl floor semi-rigid paints, decorative finishes, asbe cement etc)	tiles,		Good condition: no visible damage	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	gaskets, ropes, woven textiles, asbestos paper 1 edges on boards, tiles, etc. and felt.			Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)	
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.				Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
					High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.		Unsealed lagging and sprays.		
Α			В			с		D	
N(	ЭТ +B+	AL SCORE APPLICABLE C+D = (1-4 Very Low) w) (7-9 Medium) (>10 High)		Ρ	COMMENTS: N L ASSESSMENT RIORITY APPLICABLE	o v	isible suspect or presumed ACMs o	obs	served within the pier 8-

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	21	OF 2	5
SAMPLE NO:		No Sample Taken					1	
LOCATION:		South Viaduct Gwent					1	
POSITION:		Piers 1 – 7	- 1000			112	4	
DESCRIPTION:		Not Applicable						
PRODUCT TYPE:		Not Applicable						
EXTENT (APPROX):		Not Applicable	ALL LAND		-			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asi Asbestos Detected	bestos Detected,	Presumed Not To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Not Applicable						
SURFACE TREATMENT:		Not Applicable				steel.	9. IS	

AF	Prod	uct Type	В	Exte	nt of Damage/Deterioration	С	Sur	face Treatment	D	Asbestos Type
1		Asbestos reinforced composites (plastics resins, mastics, roofing felts, vinyl floor tiles semi-rigid paints, decorative finishes, asbesto cement etc)	, 0		Good condition: no visible damage	0		Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes, woven textiles, asbestos paper and felt.		Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.	1		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)		
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.				Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.			Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
			3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3		Unsealed lagging and sprays.		
Α			В			С			D	
NC (A·	) ЭТ +В+	AL SCORE APPLICABLE C+D = (1-4 Very Low) w) (7-9 Medium) (>10 High)	Ρ	L ASSESSMENT RIORITY APPLICABLE	lo v	isi	ble suspect or presumed ACMs o	obs	served within the pier 1-7.	

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	NO ACTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	22	OF	25
SAMPLE NO:		No Sample Taken No Access	To Jan Partie	-	-	2	1E	
LOCATION:		Main Span Gantry				L	<u>+</u> //	
POSITION:		Brakes						
DESCRIPTION:		Brake Lining		2			-	
PRODUCT TYPE:		Unknown						
EXTENT (APPROX):		Unknown			2 Aug			
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Ast Asbestos Detected	pestos Detected,	Presumed To Contain Asbestos				10	al an	
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Unknown	SPAN					
SURFACE TREATMENT:		Unknown		21				

A Pro	oduct Type	BE	Exte	nt of Damage/Deterioration	С	Surface Treatment	D	Asl	bestos Type
1	Asbestos reinforced composites (pla resins, mastics, roofing felts, vinyl floor semi-rigid paints, decorative finishes, asbe cement etc)	tiles,		Good condition: no visible damage	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1		Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles gaskets, ropes, woven textiles, asbestos paper and felt.			Low damage: a few scratches or surface marks; broken , edges on boards, tiles, etc.		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2		Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos asbestos mattresses and packing.	s, 2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		Unsealed AIB, or encapsulated lagging and sprays.	3		Crocidolite (Blue)
		3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3	Unsealed lagging and sprays.			
Α		в			с		D		
NOT (A+B	<b>FAL SCORE</b> Γ APPLICABLE +C+D = (1-4 Very Low) .ow) (7-9 Medium) (>10 High)		P			ccess gained to brakes, therefore e caution until full content can be o			

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	evern Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	23	OF	25
SAMPLE NO:		No Sample Taken No Access		16	ALL BALL			
LOCATION:		Viaduct Gantry Gwent			and a	R	2	
POSITION:		Brakes		N.		-WK	1E	
DESCRIPTION:		Brake Lining			-		20	
PRODUCT TYPE:		Unknown		A D	-	100	23	
EXTENT (APPROX):		Unknown	a Set		-	-	100	
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Ast Asbestos Detected	pestos Detected,	Presumed To Contain Asbestos				N/E		
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Unknown			~ 1	4	1	
SURFACE TREATMENT:		Unknown			1		1	

A Pro	oduct Type	В	Exte	nt of Damage/Deterioration	CS	Surface Treatment	D	Asbestos Type
1	Asbestos reinforced composites (p resins, mastics, roofing felts, vinyl floo semi-rigid paints, decorative finishes, as cement etc)	or tiles,		Good condition: no visible damage	0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)	1	Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles gaskets, ropes, woven textiles, asbestos paper and felt.			Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.		Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbest asbestos mattresses and packing.	tos, 2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)
		3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.	3	Unsealed lagging and sprays.		
Α		В			С		D	
NO <sup>°</sup>	TAL SCORE T APPLICABLE 3+C+D = (1-4 Very Low) _ow) (7-9 Medium) (>10 High)		P			ccess gained to brakes, therefore caution until full content can be		

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	24	OF	25	
SAMPLE NO:		No Sample Taken No Access		-	Mark Carl	and			
LOCATION:		Viaduct Gantry Avon		SAN	max		-		
POSITION:		Brakes				-94	SE.		
DESCRIPTION:		Brake Lining			-		12		
PRODUCT TYPE:		Unknown		and I	-	-	233		
EXTENT (APPROX):		Unknown	A. 181		-	-	200		
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbestos Detected, Asbestos Detected		Presumed To Contain Asbestos	resumed To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Unknown			~1	4	1		
SURFACE TREATMENT:		Unknown			14	-	1		

A Product Type E				B Extent of Damage/Deterioration			urface Treatment	D Asbestos Type			
1	Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints, decorative finishes, asbestos cement etc)		0 Good condition: no visible damage		0	Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)		Chrysotile (White)			
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes, woven textiles, asbestos paper and felt.			Low damage: a few scratches or surface marks; broken edges on boards, tiles, etc.		1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)		
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.			Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		2	Unsealed AIB, or encapsulated lagging and sprays.	3	Crocidolite (Blue)		
				High damage or delaminating: of thermal insulation. Visible asbest		3	Unsealed lagging and sprays.				
А		В				С		D			
TOTAL SCORE NOT APPLICABLEMATERIAL ASSESSMENT PRIORITY NOT APPLICABLE(A+B+C+D = (1-4 Very Low) (5-6 Low) (7-9 Medium) (>10 High)NOT APPLICABLE				RIORITY			cess gained to brakes, therefore caution until full content can be				

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

SURVEY REF NO. 2722/WH/0706	SITE: Second S	Severn Crossing, M4, South Wales	Date: 18 <sup>th</sup> – 20 <sup>th</sup> July 2006	SRF	PAGE	25	OF	25
SAMPLE NO:		No Sample Taken No Access		-	And Marsh		and a	
LOCATION:		Rapid Access Train (RAT)	States and the second se					
POSITION:		Brakes		A COLORADO				
DESCRIPTION:		Brake Lining						
PRODUCT TYPE:		Unknown		See. 1		1000		
EXTENT (APPROX):		Unknown				. 87		
LEVEL OF IDENTIFICATION: Presumed, Strongly Presumed, No Asbestos Detected, Asbestos Detected		Presumed To Contain Asbestos						
ACCESSIBILITY / VULNERABILITY: Very Low, Low, Medium, High		Unknown						
SURFACE TREATMENT:		Unknown		199				

AP	Product Type	BE	Exte	nt of Damage/Deterioration	С	Surface Treatment	D	Asbestos Type
1	Asbestos reinforced composites (plast resins, mastics, roofing felts, vinyl floor ti semi-rigid paints, decorative finishes, asbes cement etc)	tiles,		Good condition: no visible damage	bible damage 0 Composite materials containing asbestos: Reinforced plastics, resins, vinyl tiles, painted or asbestos cement (with exposed face painted or encapsulated)		1	Chrysotile (White)
2	Asbestos insulating board, millboards, other low-density insulation boards, asbestos texti gaskets, ropes, woven textiles, asbestos par and felt.	sity insulation boards, asbestos textiles, Low damage: a few scratches or surface marks; broken		1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed asbestos cement sheets etc.	2	Amphibole asbestos (Amosite (Brown), Actinolite, Anthophyllite, Tremolite)	
3	Thermal insulating (e.g. pipe and boiler lagging) sprayed asbestos, loose asbestos, asbestos mattresses and packing.	2		Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibre.		Unsealed AIB, or encapsulated lagging and sprays.		Crocidolite (Blue)
		3		High damage or delaminating: of materials, sprays and thermal insulation. Visible asbestos debris.		Unsealed lagging and sprays.		
Α		в			С		D	
TOTAL SCORE NOT APPLICABLEMATERIAL ASSESSMENT PRIORITY NOT APPLICABLE(A+B+C+D = (1-4 Very Low) (5-6 Low) (7-9 Medium) (>10 High)NOT APPLICABLE				L ASSESSMENT asbestos. Exer RIORITY		ccess gained to brakes, therefore e caution until full content can be e		

RECOMMENDATIONS	ENCAPSULATE	REPAIR	LABEL	PROTECT / ENCLOSE	RESTRICT ACCESS	MONITOR CONDITION	REMOVE	EXERCISE CAUTION
DATE ACTION TAKEN	DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION		DATE OF NEXT INSPECTION	

2722/WH/0706

12: PLANS

### 2722/WH/0706



