Road Core Log									
Road Nam	ne		M4 Prince of W	/ales Bridge		Road type		Motorway	
Coring Da	ite		11/03/2024			Traffic Direction		Eastbour	nd
Coring Tir	me		23:00	Date Logged	19/03/2024	Carriageway		Gwent At	putment
Core Ref.			GA-E01	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road condition: Good									
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<15	CR	Y	<5% voids
2	50	220	170	RB / DBM	N	<25	CR	Y	<25% voids
3	220	380	160	RB / DBM	N	<32	CR	Y	<20% voids
4	380	N/A	N/A	SB	N	N/A	CR	N/A	

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E01



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E01



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E01

Road Core Log									
Road Name M4 Prince of Wales Bridge					Road type		Motorway		
Coring Da	ate		11/03/2024			Traffic Direc	tion	Eastbour	nd
Coring Ti	me		23:15	Date Logged	19/03/2024	Carriageway		Gwent Al	butment
Core Ref.			GA-E02	Network Reference	N/A	Carriageway	location	Central re	eservation
Core dian	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good			•				•	
			Layers			Aggi	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	25	25	WC/HRA	N	<5	CR	Y	<5% voids
2	25	80	55	RB / HDM	N	<25	CR	Y	<20% voids
3	80	N/A	N/A	SB	N	N/A	CR	N/A	
Key :         Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.         Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.         Aggregate: CR = Crushed Rock. P = Pebbles.									
Reinstaten	ned. Core ur nent with rap	ndertaken in acc bid set concrete depth undertak	to 0.05m bgl and	EN 12697-27 [R HAPAS cold-lay	ef 4.N] and logged and spray sealant	in accordance in accordance	with: CS 229 with Series	9. 900 MCHW	(Ref 8N)

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E02



	Contract Name
	Contract ID:
	Client:
CC Ground Investigations Ltd	Hole ID:

ract Name:	SBIM PoW Bridge
ract ID:	C8248
it:	Amey
ID:	GA-E02



Core with PAK spray under UV light

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E02

Road Core Log									
Road Nam	Road Name M4 Prince of Wales Bridge				Road type		Motorwa	Motorway	
Coring Da	te		12/03/2024			Traffic Direct	ion	Eastbour	nd
Coring Tir	ne		00:00	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-E03	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	ieter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good							•	
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC/HRA	N	<20	CR	Y	<10% voids
2	40	130	90	RB / HDM	N	<35	CR	Y	<15% voids Drilling induced debonding
3	130	260	130	RB / DBN	N	<20	CR	Y	
4	260	380	120	RB / DBN	N	<25	CR	Y	
5	380	N/A	N/A	SB	N	N/A	CR	N/A	

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

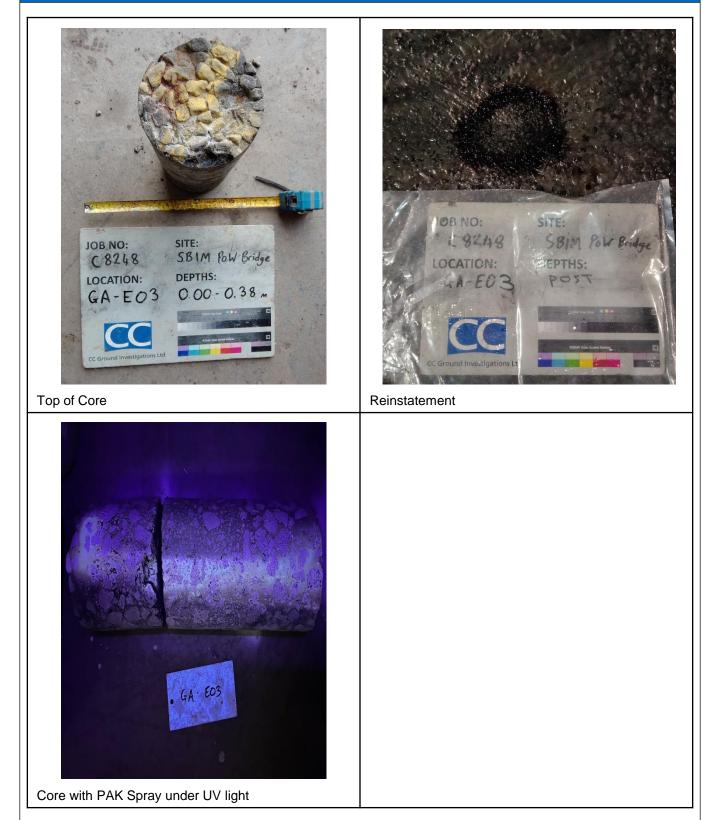
Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E03



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E03



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E03

				Ro	ad Core L	og				
Road Nam	ie		M4 Prince of W	/ales Bridge		Road type		Motorway	Motorway	
Coring Da	Coring Date 12/03/2024				Traffic Direct	ion	Eastbour	nd		
Coring Tin	ne		00:15	Date Logged	19/03/2024	Carriageway		Gwent Al	putment	
Core Ref.			GA-E04	Network Reference	N/A	Carriageway	location	Central R	eservation	
Core diam	eter		150mm	Coring type	Water flush	Weather		Rainy		
Road cond	dition: Good	ł		•				•		
		l	ayers	-		Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	25	25	WC / HRA	N	<5	CR	Y		
2	25	80	55	RB / HRA	N	<20	CR	Y	<5% voids	
3	80	N/A	N/A	SB	N	N/A	CR	N/A		
Material: H Aggregate Remarks: Core retain	HRA = Hot ro : CR = Crus ned. Core un	blied asphalt. De shed Rock. P = 1 dertaken in acc	BM = Dense bitum Pebbles. ordance with BS E	inous macadan	aggregate). RB = R h. HDM = Heavy Du ef 4.N] and logged i r and spray sealant	ty Macadam. C	ONC = Co	ncrete. 9.	(Ref 8N)	

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	GA-E04	



	Contract Name:	Shivi Povv Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E04





	Road Core Log								
Road Name M4 Prince of Wales Bridge				Road type		Motorway			
Coring Da	ite		12/03/2024			Traffic Direct	ion	Eastbour	nd
Coring Tir	ne		01:10	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-E05	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	ieter		150mm	Coring type	Water flush	Weather		Rainy	
Road cone	Road condition: Good								
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<15	CR	Y	<5% voids
2	50	165	115	RB / HDM	N	<30	CR	Y	<10% voids Drilling induced debonding
3	165	250	85	RB / HDM	N	<30	CR	Y	<15% voids
4	250	390	140	RB / DBM	N	<35	CR	Y	
5	390	N/A	N/A	SB	N	N/A	CR	N/A	

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	GA-E05	





CC Ground Investigations Ltd	

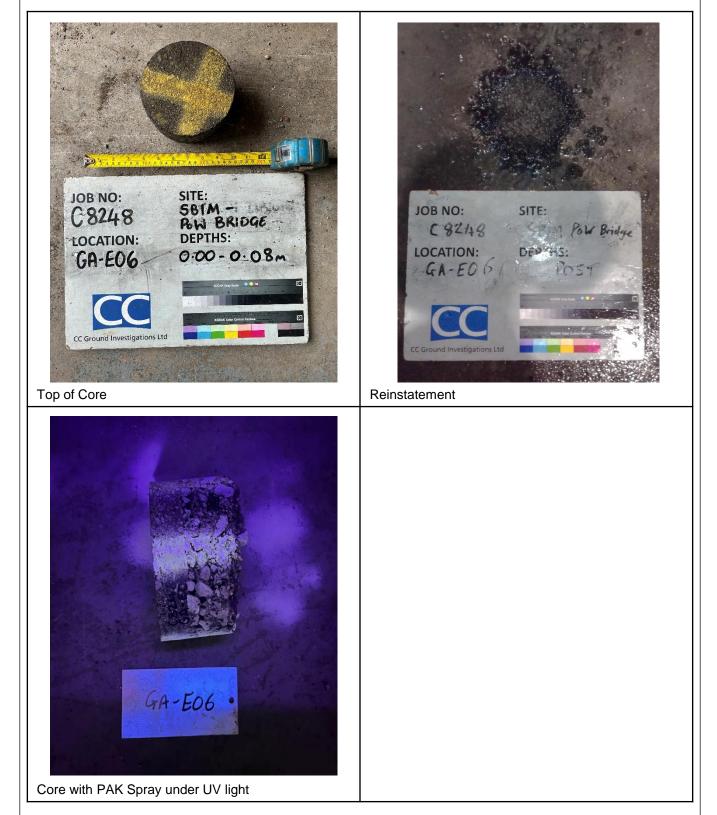
Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-E05

				Ro	ad Core L	og			
Road Nan	ne		M4 Prince of W	/ales Bridge	Road type		Motorway	Motorway	
Coring Da	ate		12/03/2024			Traffic Direc	tion	Eastbour	nd
Coring Ti	me		01:30	Date Logged	19/03/2024	Carriageway		Gwent Al	butment
Core Ref.			GA-E06	Network Reference	N/A	Carriageway	location	Central R	Reservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	4		•					
			_ayers			Agg	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	30	30	WC/HRA	N	<5	CR	Y	<5% voids
2	30	80	50	RB / HDM	N	<15	CR	Y	<30% voids
3	80	N/A	N/A	SB	N/A	N/A	CR	N/A	
Material:	HRA = Hot re	Vearing course. olled asphalt. Df shed Rock. P =	3M = Dense bitum	l se (max 20mm inous macadan	I aggregate). RB = F n. HDM = Heavy Du	Road base. SB	= Sub- bas CONC = Co	e. ncrete.	1
Reinstaten	ned. Core ur nent with rap		to 0.05m bgl and		ef 4.N] and logged and spray sealant				(Ref 8N)





	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E06



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E06

				Ro	ad Core L	og			
Road Nam	ne		M4 Prince of W	/ales Bridge		Road type		Motorway	
Coring Da	ite		12/03/2024			Traffic Dire	ction	Eastbour	nd
Coring Tir	me		02:40	Date Logged	19/03/2024	Carriagewa	/	Gwent A	butment
Core Ref.			GA-E07	Network Reference	N/A	Carriagewa	/ location	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	d.		•	•				
			_ayers			Agg	regate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	Max size (mm)	Туре	<b>РАК</b> (Y/N)	Comments
1	0	40	40	WC/HRA	N	<20	CR	Y	
2	40	370	330	RB / HDM	N	<37	CR	Y	Drilling induced debonding
3	370	N/A	N/A	SB	N/A	N/A	CR	N/A	
Material: H Aggregate Remarks: Core retain Reinstaten	HRA = Hot ro : CR = Crus ned. Core ur nent with rap	olled asphalt. Di shed Rock. P =	BM = Dense bitum Pebbles. ordance with BS E to 0.05m bgl and	inous macadan	aggregate). RB = F n. HDM = Heavy Du ef 4.N] and logged v and spray sealant	ity Macadam.	CONC = Co with: CS 22	9.	(Ref 8N)
				Cont	ract Name	2:	SE	IM Po\	V Bridge
				Cont	ract ID:		C	248	

CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-E07





Contract Name:	SBIM PoW Bridge		
Contract ID:	C8248		
Client:	Amey		
Hole ID:	GA-E07		



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E07

				Ro	ad Core L	og			
Road Name M4 Prince of Wales Bridge				Road type		Motorway	Motorway		
Coring Date 12/03/2024				Traffic Direc	tion	Eastbour	nd		
Coring Tir	me		02:55	Date Logged	19/03/2024	Carriageway		Gwent Al	outment
Core Ref.			GA-E08	Network Reference	N/A	Carriageway	location	Central re	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	4		•				-	
		-	Layers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	15	15	WC / HRA	N	<5	CR	Y	<30% voids
2	15	75	60	RB / HDM	N	<20	CR	Y	<30% voids
3	75	N/A	N/A	SB	N/A N/A		CR	N/A	
Material: I Aggregate Remarks: Core retain Reinstaten	HRA = Hot ro e: CR = Crus ned. Core un nent with rap	olled asphalt. Dl shed Rock. P =	BM = Dense bitum Pebbles. ordance with BS E to 0.05m bgl and	Ninous macadan	aggregate). RB = F n. HDM = Heavy Du ef 4.N] and logged v and spray sealant	ity Macadam. (	CONC = Co with: CS 22	ncrete. 9.	(Ref 8N)

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	GA-E08	



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E08



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E08

				Ro	ad Core Lo	og			
Road Name M4 Prince of Wales Bridge		Road type		Motorwa	Motorway				
Coring Da	ite		12/03/2024			Traffic Direct	ion	Eastbour	nd
Coring Tir	ne		23:10	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-E09	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
								. <b>I</b>	
Road con	dition: Good	b				_			
		I	_ayers	1	-	Aggr	egate	4	
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC / HRA	N	<15	CR	Y	15% voids
2	40	260	220	RB / HDM	N	<35	CR	Y	20% voids Drilling induced debonding Rebar at 130mm (45mm diameter)
3	260	380	120	RB / DBM	N	<30	CR	Y	20% voids Rebar at 330mm (45mm diameter)
4	380	N/A	N/A	SB	N/A	N/A	CR	N/A	
Key :	I	1	1	1	1	1	L	I	1

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E09

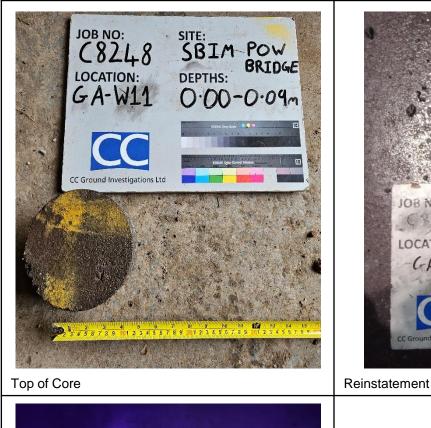
				- KU	ad Core L			i	
Road Name M4 Prince of Wal				/ales Bridge	es Bridge Road type			Motorway	
Coring Date 13/03/2024					Traffic Direct	ion	Westbou	nd	
Coring Tir	me		23:40	Date Logged	19/03/2024	Carriageway		Gwent At	putment
Core Ref.			GA-W11	Network Reference	N/A	Carriageway	location	Central R	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
toad con	dition: Good					A			
			ayers		4	Aggr	egate	-	
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	30	30	WC/HRA	N	<5	CR	Y	
2	30	90	60	RB / HDM	N	<20	CR	Y	
3	90	N/A	N/A	N/A	N/A	N/A	CR	N/A	
Material: I Aggregate Remarks: Core retair Reinstaten	HRA = Hot ru e: CR = Crus ned. Core ur nent with rap	olled asphalt. DB shed Rock. P = F ndertaken in acco	BM = Dense bitum Pebbles. Ordance with BS E	inous macadan	aggregate). RB = R n. HDM = Heavy Du ef 4.N] and logged i v and spray sealant	ty Macadam. C	:ONC = Cor	ncrete.	(Ref 8N)
				Conti	ract Name	:	SB	IM PoV	V Bridge
									0

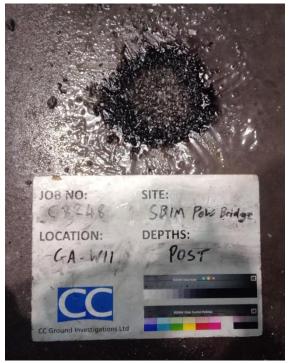
CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-W11



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W11







CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W11

Road Core Log										
Road Nam	ne		M4 Prince of V	/ales Bridge		Road type		Motorwa	Motorway	
Coring Da	ite		13/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Tir	ne		23:25	Date Logged	19/03/2024	Carriageway		Gwent A	butment	
Core Ref.			GA-W12	Network Reference	N/A	Carriageway	location	Lane 3		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good	4								
itodd com			.ayers			Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	40	40	WC/HRA	N	<15	CR	Y	30% voids	
2	40	130	90	RB / HDM	N	<30	CR	Y	30% voids Drilling induced debonding	
3	130	260	130	RB / HDM	N	<30	CR	Y	40% voids	
4	260	380	120	RB / DBM	N	<40	CR	Y	30% voids	
5	380	N/A	N/A	SB	N/A	N/A	CR	N/A		
			•	•	•			•		

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. BDM = Dasse bituminous macadam. HDM = Heavy Duty Macadam. CONC = Conc Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W12



CC
CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-W12



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W12

Road Core Log									
Road Nan	ne		M4 Prince of W	/ales Bridge		Road type Motorway		/	
Coring Da	ate		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Ti	me		00:30	Date Logged	19/03/2024	Carriageway		Gwent At	putment
Core Ref.			GA-W13	Network Reference	N/A	Carriageway	location	Central R	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	<b>ا</b>							
		L	ayers.			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<20	CR	Y	3% voids
2	50	250	200	RB / HDM	N	<30	CR	Y	15% voids
3	250	370	120	RB / DBM	N	<35	CR	Y	15% voids
4	370	N/A	N/A	SB	N/A	N/A	CR	N/A	

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W13



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W13



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W13

				Ro	ad Core L	og				
Road Nan	ne		M4 Prince of V	/ales Bridge		Road type		Motorway	Motorway	
Coring Da	ate		13/03/2024			Traffic Direc	tion	Westbou	nd	
Coring Ti	me		23:55	Date Logged	19/03/2024	Carriageway		Gwent Al	butment	
Core Ref.			GA-W14	Network Reference	N/A	Carriageway	location	Lane 3		
Core dian	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good	d								
			Layers			Aggr	regate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Key	Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	15	15	WC/HRA	N	<3	CR	Y	30% voids	
2	15	100	85	RB / DBM	N	<15	CR	Y	35% voids	
3	100	N/A	N/A	SB	N/A	N/A	CR	N/A		
Material:	HRA = Hot re	Vearing course. olled asphalt. Dl shed Rock. P =	BM = Dense bitum	l se (max 20mm inous macadan	aggregate). RB = F n. HDM = Heavy Du	Road base. SB	= Sub- bas CONC = Co	e. ncrete.	1	
Reinstaten	ned. Core ur nent with rap		to 0.05m bgl and		ef 4.N] and logged and spray sealant				(Ref 8N)	





	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W14



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W14

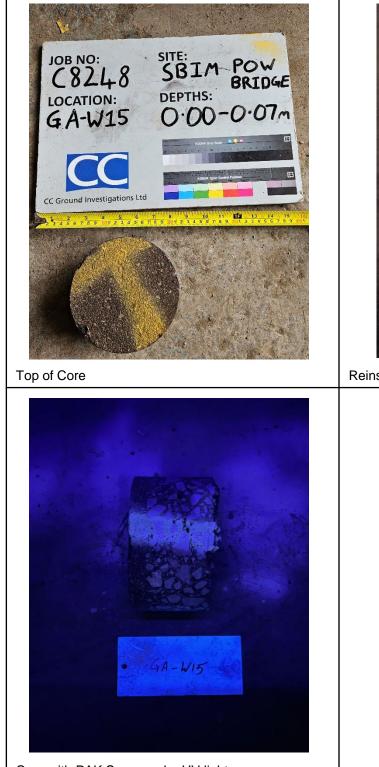
				Ro	ad Core L	og			
Road Nam	ie		M4 Prince of W	/ales Bridge	ridge Road type			Motorway	
Coring Date 14/03/2024		14/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Tin	ne		01:20	Date Logged	19/03/2024	Carriageway		Gwent Al	outment
Core Ref.			GA-W15	Network Reference	N/A	Carriageway	location	Central re	eservation
Core diam	eter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good	1		-				•	
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	15	15	WC/HRA	N	<5	CR	Y	
2	15	70	55	RB / HDM	N	<30	CR	Y	
3	70	N/A	N/A	SB	N/A	N/A	CR	N/A	
Material: ⊢ Aggregate Remarks: Core retain Reinstatem	HRA = Hot ro :: CR = Crus ned. Core un nent with rap	blled asphalt. DE shed Rock. P = F dertaken in acco	BM = Dense bitum Pebbles. ordance with BS E to 0.05m bgl and I	inous macadan	aggregate). RB = F h. HDM = Heavy Du ef 4.N] and logged v and spray sealant	ity Macadam. C	:ONC = Cor vith: CS 229	ncrete.	(Ref 8N)
				Cont	ract Name		SB	IM PoV	V Bridge

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W15





Contract Name:	SBIM PoW Bridge		
Contract ID:	C8248		
Client:	Amey		
Hole ID:	GA-W15		





#### Reinstatement

Core with	PAK Spray	under l	UV liaht
0010 1111	i / li Copiaj	anaon	ov ngrit

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W15

				Ro	ad Core Lo	og			
Road Nam	Road Name M4 Prince of Wales Bridge			Road type		Motorwa	Motorway		
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Tir	ne		00:55	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-W16	Network Reference	N/A	Carriageway location		Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
					<b>I</b>			•	
Road con	dition: Good	t in the second se						1	
		L	.ayers			Aggr	egate	-	
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC / HRA	N	<20	CR	Y	3% voids
2	40	260	220	RB / HDM	N	<30	CR	Y	30% voids Drilling induced debonding Rebar at 170mm (45mm diameter)
3	260	360	100	RB / DBM	N	<30	CR	Y	15% voids
4	360	N/A	N/A	SB	N/A	N/A	CR	N/A	

#### Key :

**Road Layers:** WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. **Material:** HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

Contract Name:SBIM PoW BridgeContract ID:C8248Client:AmeyHole ID:GA-W16



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W16



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W16

		i			ad Core Lo	<u> </u>		Î		
Road Name M4			M4 Prince of Wales Bridge			Road type		Motorway	Motorway	
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Tir	ne		02:25	Date Logged	19/03/2024	Carriageway		Gwent A	outment	
Core Ref.			GA-W17	Network Reference	N/A	Carriageway	location	Central re	eservation	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
				•				•		
Road con	dition: Good									
		L	ayers	İ	-	Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	15	15	WC/HRA	N	<5	CR	Y		
2	15	90	75	RB / HRA	N	<10	CR	Y	5% voids	
3	90	N/A	N/A	SB	N/A	N/A	CR	N/A		
Material:	HRA = Hot ro	/earing course. I blied asphalt. DE shed Rock. P = F	BM = Dense bitum	se (max 20mm iinous macadan	aggregate). RB = R n. HDM = Heavy Du	oad base. SB : ty Macadam. C	= Sub- bas CONC = Co	e. ncrete.		
Reinstaten	ned. Core un nent with rap	dertaken in acco id set concrete t depth undertake	o 0.05m bgl and	EN 12697-27 [R HAPAS cold-lay	ef 4.N] and logged in and spray sealant i	n accordance v in accordance	with: CS 22 with Series	9. 900 MCHW	(Ref 8N)	

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W17



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
CC Ground Investigations Ltd	Client:	Amey
	Hole ID:	GA-W17



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W17

Road Core Log										
Road Nan	ne		M4 Prince of W	/ales Bridge		Road type Mo		Motorway	Votorway	
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Ti	me		01:45	Date Logged	19/03/2024	Carriageway		Gwent At	putment	
Core Ref.			GA-W18	Network Reference	N/A	Carriageway	location	Lane 3		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
		<b>I</b>			I I			•		
Road con	dition: Good		ayers			Aggr	egate	1		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	45	45	WC/HRA	N	<20	CR	Y		
2	45	125	80	RB / HDM	Ν	<37	CR	Y	2 and 3 are separate layers of same material	
3	125	370	245	RB / HDM	N	<37	CR	Y		
4	370	N/A	N/A	SB	N/A	N/A	CR	N/A		

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W18



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CC Ground Investigations Ltd	Ца

Contract Name:	SBIM PoW Bridge	
Contract ID:	C8248	
Client:	Amey	
lole ID:	GA-W18	



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W18

Road Core Log									
e		M4 Prince of W	/ales Bridge		Road type Motor		Motorway	otorway	
te		13/03/2024			Traffic Direct	ion	Eastbour	nd	
ne		00:50	Date Logged	19/03/2024	Carriageway		Avon Abu	utment	
		AA-E01	Network Reference	N/A	Carriageway	location	Lane 3		
eter		150mm	Coring type	Water flush	Weather		Rainy		
			I	<u> </u>					
lition: Good	ł			1			1		
	L	ayers			Aggr	egate			
Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
0	50	50	WC / HRA	N	<20	CR	Y		
50	250	200	RB / HDM	N	<30	CR	Y	Drilling disturbed debonding	
250	370	120	RB / HDM	N	<37	CR	Y		
370	N/A	N/A	SB	N/A	N/A	CR	N/A		
t	te t	Image       Ine       Ine	Image: Second	e       M4 Prince of Wales Bridge         ie       13/03/2024         ie       00:50       Date Goged         ie       AA-E01       Network Reference         eter       150mm       Coring type         Ition: Good         Thickness (mm)         Base (mm)       Thickness (mm)       Material Description (See Key below)         0       50       250       200       RB / HDM         250       370       120       RB / HDM	M4 Prince of Wales Bridge         ie       13/03/2024         ie       13/03/2024         ie       00:50       Date Logged       19/03/2024         ie       AA-E01       Network Reference       N/A         eter       150mm       Coring type       Water flush         ittion: Good       Coring type       Water flush         Top (mm)       Base (mm)       Thickness (mm)       Material Description (See Key below)         0       50       S0       N         20       250       S0       N         250       250       S0       N         250       370       120       RB / HDM       N	e M4 Prince of Wales Bridge Road type ie 13/03/2024 Traffic Direct ne 00:50 Date Logged 19/03/2024 Carriageway AA-E01 Network Reference N/A Carriageway eter 150mm Coring type Water flush Weather Itom: Good Top (mm) Base (mm) Thickness Material Description (See Key below) Debonded at Lower Interface (Y/N) Max size (mm) Coring type Address (Y/N) Address (Y/N) Address (Y/N) Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr Aggr A	Road type         Road type         Traffic Direction         Traffic Direction         Is 00:50       Date Logged       19/03/2024       Carriageway tocation         tee       00:50       Date Logged       19/03/2024       Carriageway tocation         eter       150mm       Coring type       Water flush       Weather         Ition: Good         Top (mm)       Base (mm)       Thickness (mm)       Material Description (See Ky)       Debonded at Lower Interface (Y/N)       Max size (mm)       Type         0       50       50       S0         0       S0       S0       Coring type       Material Debonded at Lower Interface (Y/N)       Max size (mm)       Type         50       S0       S0       CCR         S0       S0       S0       CCR         S0		

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	AA-E01





tract Name:	SBIM PoW Bridge
tract ID:	C8248
nt:	Amey
e ID:	AA-E01



Core with PAK Spray under UV light

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	AA-E01

Road Core Log									
Road Name M4 Prince of Wales Bridge					Road type		Motorway	Motorway	
Coring Da	te		13/03/2024			Traffic Direct	tion	Eastbour	nd
Coring Tin	ne		00:20	Date Logged	19/03/2024	Carriageway		Avon Abu	utment
Core Ref.			AA-E03	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	ieter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	4		•					
Noad cont			.ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC/HRA	N	<20	CR	Y	
2	40	140	100	RB / HDM	N	<37	CR	Y	2 and 3 are separate layers of same material
3	140	230	90	RB / HDM	N	<37	CR	Y	
4	230	370	140	RB / DBM	N	<50	CR	Y	
5	370	N/A	N/A	SB	N/A	N/A	CR	N/A	

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

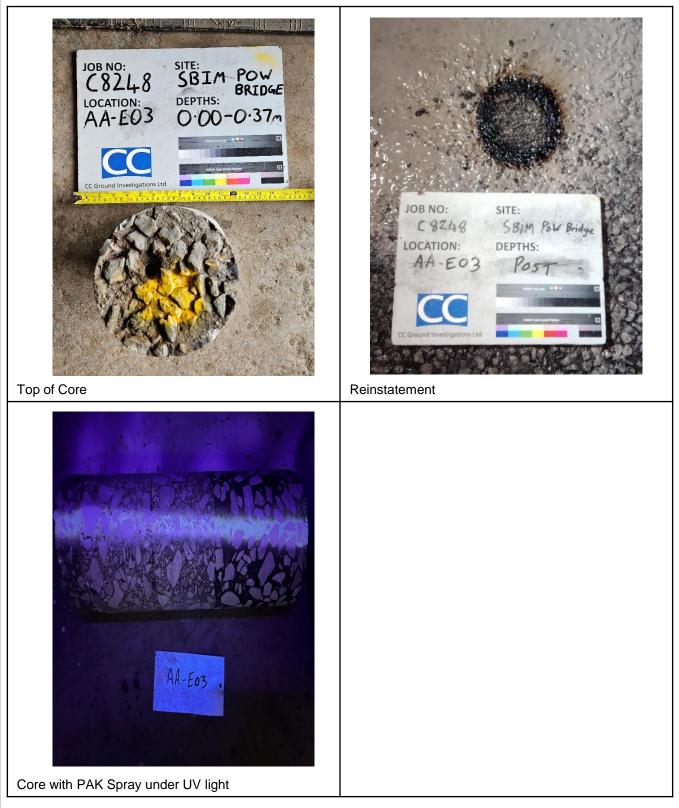
Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-E03



CC
CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	AA-E03



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-E03

Road Core Log									
Road Name M4 Prince of Wale			/ales Bridge		Road type		Motorway		
Coring Date 15/03/2024					Traffic Direction		Westbound		
Coring Time 01:20			01:20	Date Logged	19/03/2024	Carriageway		Avon Abutment	
Core Ref.			AA-W05	Network Reference	N/A	Carriageway	location	Central reservation	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good	Ł			I				
			_ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	55	55	WC / HRA	N	<20	CR	Y	
2	55	160	105	RB / HDM	N	<20	CR	Y	This layer continues but further core could not be retrieved
Material: H	HRA = Hot ro		3M = Dense bitum		I aggregate). RB = F n. HDM = Heavy Du				1
Remarks: Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) Unable to undertake TRL-DCP test at base of core as unable to retrieve base of core.									
	Contract Name: SBIM PoW Bridge								V Bridge
				Cont	ract ID:		C8	248	
				Clien	nt: A		An	ney	
CC G	iround	Investiga	tions Ltd	Hole	Hole ID:			AA-W05	





Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	AA-W05



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W05

		Road Core Log							
Road Name M4 Prince of Wales Bridge				Road type		Motorway			
Coring Date 15/03/2024					Traffic Direct	ion	Westbou	nd	
e		00:00	Date Logged	19/03/2024	Carriageway		Avon Abutment		
		AA-W06	Network Reference	N/A	Carriageway	location	Lane 3		
ter		150mm	Coring type	Water flush	Weather		Rainy		
Road condition: Good									
	L	ayers			Aggr	egate			
Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
0	50	50	WC/HRA	Ν	<10	CR	Y		
50	270	220	RB / HDM	N	<20	CR	Y	25% voids Drilling induced debonding	
270	360	90	RB / DBM	N	<15	CR	Y		
360	N/A	N/A	SB	N/A	N/A	CR	N/A		
e	ter tion: Gooo (mm) 0 50 270	Image: series of the series	a       15/03/2024         a       00:00         a       AA-W06         ter       150mm         tion: Good       Thickness         Top (mm)       Base (mm)       Thickness (mm)         0       50       50         50       270       220         270       360       90	i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i     <		In the second	Image: space of the system o	I = I = I = I = I = I = I = I = I = I =	

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.

Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.

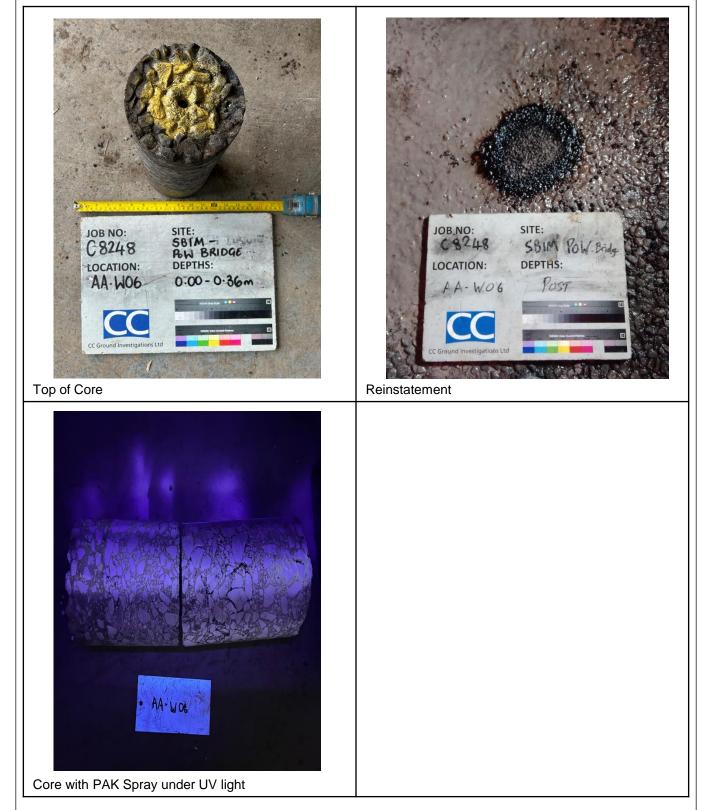
Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W06





Contract Name:	SBIM PoW Bridge	
Contract ID:	C8248	
Client:	Amey	
Hole ID:	AA-W06	



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W06

Road Core Log									
Road Nan	Road Name M4 Prince of Wales Bridge			Road type		Motorwa	Motorway		
Coring Da	ate		15/03/2024			Traffic Direct	ion	Westbou	Ind
Coring Ti	me		01:55	Date Logged	19/03/2024	Carriageway		Avon Ab	utment
Core Ref.			AA-W07	Network Reference	N/A	Carriageway	location	Central r	eservation
Core dian	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	t t			F F			<b>I</b>	
		I	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	55	55	WC / HRA	N	<20	CR	Y	
2	55	255	200	RB / HDM	N	<30	CR	Y	5% voids 2x large voids at base of layer (20-30mm diamete Drilling induced debondi
3	255	375	120	RB / DBM	N	<32	CR	Y	
			1			1			

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

**Aggregate:** CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.

Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W07



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
CC Ground Investigations Ltd	Client:	Amey
	Hole ID:	AA-W07



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W07

Road Core Log									
Road Name M4 Prince of Wales Bridge				Road type		Motorway			
Coring Da	te		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Tin	ne		23:20	Date Logged	19/03/2024	Carriageway		Avon Abu	utment
Core Ref.			AA-W08	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	leter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good	d		•				•	
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC / HRA	Ν	<15	CR	Y	
2	40	190	150	RB / HDM	N	<35	CR	Y	Drilling disturbed debonding
3	190	380	190	RB / DBM	N	<25	CR	Y	
4	380	N/A	N/A	SB	N/A	N/A	N/A	N/A	
Key :		<u> </u>		I	<u> </u>	1	<u> </u>	I	1

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

**Aggregate:** CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.

Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
CC Ground Investigations Ltd	Client:	Amey
	Hole ID:	AA-W08



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W08



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W08

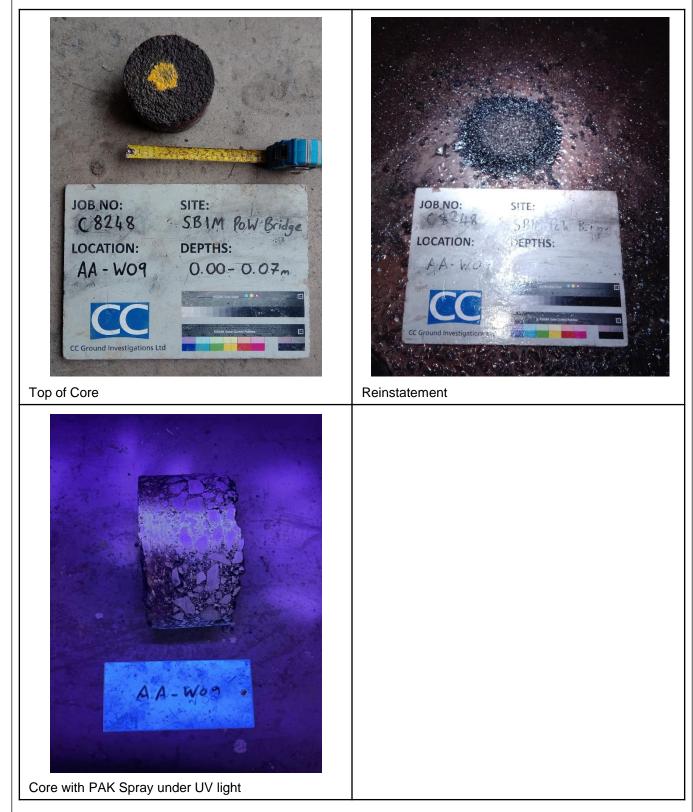
Road Core Log									
Road Nam	ie	M4 Prince of Wales Bridge				Road type		Motorway	
Coring Da	ite		15/03/2024			Traffic Direct	tion	Westbou	nd
Coring Tir	ne		02:30	Date Logged	19/03/2024	Carriageway		Avon Abi	utment
Core Ref.			AA-W09	Network Reference	N/A	Carriageway	location	Central re	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
		<b>I</b>		ł	•	<u></u>			
Road cond	dition: Good		_ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)		Туре	PAK (Y/N)	Comments
1	0	25	25	WC/HRA	N	<5	CR	Y	
2	25	70	45	RB / DBM	N	<25	CR	Y	10% voids
3	70	N/A	N/A	SB	N/A	N/A	CR	N/A	
Key :         Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.         Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.         Aggregate: CR = Crushed Rock. P = Pebbles.         Remarks:         Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.         Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)         TRL-DCP test to 1.0m depth undertaken below core									
				Cont	ract Name	2:	SB	IM PoV	V Bridge
				Cont	ract ID:		C8	248	

CC Ground Investigations Ltd

Contract Name:	SBIN POW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	AA-W09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W09

Road Core Log									
Road Name M4 Prince of Wales Bridge					Road type		Motorway		
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Tir	ne		22:50	Date Logged	19/03/2024 Carriageway		Avon Abı	utment	
Core Ref.			AA-W10	Network Reference	N/A Carriageway location		Lane 3	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Pood oon	dition: Good	4		I	FF			•	
			ayers				Aggregate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)		Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<15	CR	Y	
2	50	233	183	RB / HDM	N	<40	CR	Y	3% voids
3	233	360	127	RB / DBM	N	<30	CR	Y	
4	360	N/A	N/A	SB	N/A	N/A	CR	N	

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	AA-W10	





	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	AA-W10	

Road Core Log										
Road Name M4 Prince of Wales Bridge					Road type		Motorway			
Coring Da	ite		13/03/2024			Traffic Direction		Eastbour	d	
Coring Tir	me		02:40	Date Logged	19/03/2024	19/03/2024 Carriageway		Cable Sta	Cable Stay Bridge	
Core Ref.			CS-E02	Network Reference	N/A	Carriageway location		Lane 1		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good	4		•				•		
			_ayers			Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	55	55	WC/HRA	N	<15	CR	Y		
2	55	75	20	RB / DBM	N	<15	CR	Y	5% voids	
3	75	90	15	Cemented Sand	N	N/A	N/A	Y	Sand Carpet (APL)	
Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.										

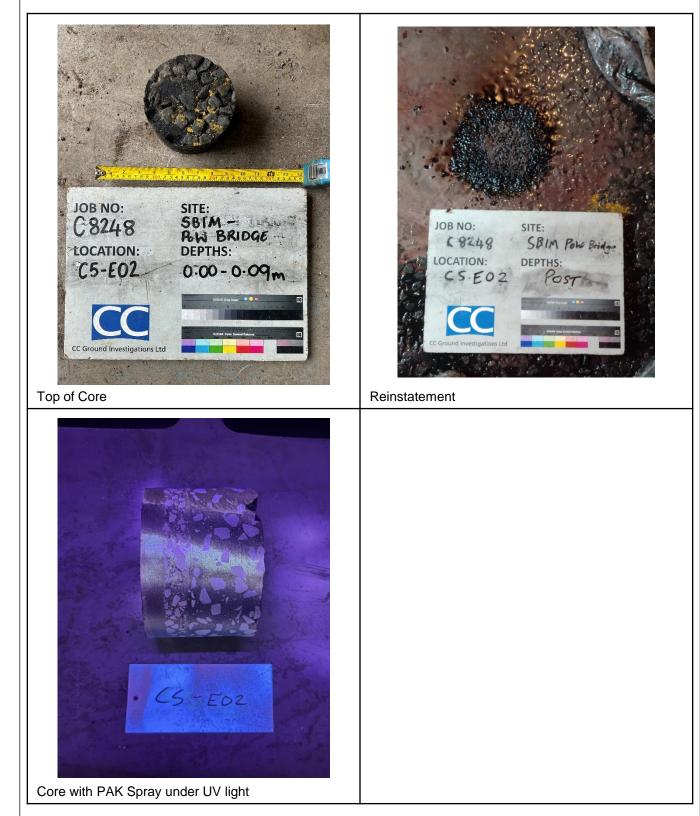
Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	CS-E02	



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	CS-E02



	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	CS-E02	

				Ro	ad Core L	og				
Road Name M4 Prince of Wales Bridge					Road type		Motorway	Motorway		
Coring Da	ate		13/03/2024			Traffic Direct	ion	Eastbound	Eastbound	
Coring Tir	me		01:35	Date Logged	19/03/2024	Carriageway		Cable Sta	Cable Stay Bridge	
Core Ref.			CS-E05	Network Reference	N/A	Carriageway	location	Lane 1		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good			•	·					
			ayers			Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	50	50	WC/HRA	N	<20	CR	Y		
2	50	90	40	RB / HRA	N	<15	CR	Y		
3	90	100	10	Cemented Sand	N	N/A	N/A	Y	Sand Carpet (APL)	
Material:	HRA = Hot re		3M = Dense bitum		aggregate). RB = R n. HDM = Heavy Du					

TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	CS-E05







