Southern Testing ST Consult

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Start - End Date	Project ID:	Hole Type:	WLS1
	j14219	WLS	Sheet 1 of 1

Project Name:	1 St James Road	Remarks:	Co-ordinates:	Level:	Logger:
					JAC
Location:	Hampton Hill, London	Falling head soakage test carried out.			
Client:	Hampton Hick Ltd				

Well	Water Strikes	Samples and Insitu Testing			Level (m AOD)	Thickness (m)	Legend	Depth (m bgl)	Stratum Description
		Depth (m bgl)	Type	Results					
		0.15	ES			(0.30)		0.30	Brown silty slightly gravelly SAND. Gravel is fine to coarse brick, flint and rootlets. (TOPSOIL)
		0.40	ES			(0.40)		0.70	Orange brown silty gravelly SAND. GRavel is fine to coarse subangular to subrounded flint.
		0.80	D						Very dense brown silty sandy GRAVEL. Gravel is fine to coarse subangular to subrounded flint.
		1.00	SPT(S)	N=48 (4,7/10,13,11,14)					
		1.50	B						
		2.00	SPT(S)	N=61 (12,12/13,13,15,20)		(2.30)			
		3.00	SPT(S)	N=50 (12,11/50 for 275mm)				3.00	End of Borehole at 3.00m

1 2 3 4 5

Hole Details		Casing Details		Waterstrike (m bgl)						Standing/Chiselling (m bgl)			
Depth (m bgl)	Dia. (mm)	Depth (m bgl)	Dia. (mm)	Date	Depth Strike	Depth Casing	Depth Sealed	Rose to:	Time (mins)	From	To	Time	Remarks

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Start - End Date	Project ID:	Hole Type:	WLS2
	j14219	WLS	Sheet 1 of 2

Project Name:	1 St James Road	Remarks:	Co-ordinates:	Level:	Logger:
Location:	Hampton Hill, London				
Client:	Hampton Hick Ltd				

Well	Water Strikes	Samples and Insitu Testing: Depth (m bgl)	Type	Results	Level (m AOD)	Thickness (m)	Legend	Depth (m bgl)	Stratum Description
		0.10	ES			(0.30)			Brown silty gravelly SAND. Gravel is fine to coarse subangular to subrounded flint with rootlets. (TOPSOIL)
								0.30	
		0.50	ES			(0.30)			Orange brown silty gravelly SAND. Gravel is fine to coarse subangular to subrounded flint.
		0.70	B					0.60	
						(0.30)			Very dense brown and grey sandy GRAVEL. Gravel is fine to coarse subangular to subrounded flint.
		1.00	SPT(S)	N=62 (7,11/12,14,18,18)				0.90	Very dense orange brown very sandy GRAVEL. Gravel is fine to coarse subangular to subrounded flint.
		1.50	ES						
		2.00 - 2.50	B			(2.10)			
		2.00	SPT(S)	N=60 (10,12/14,14,16,16)					
		3.00	SPT(S)	N=64 (11,11/14,14,18,18)				3.00	Very dense range brown gravelly SAND. Gravel is fine to coarse sub angular to subrounded flint. *2.90-3.00m colour is dark brown/black.*
						(0.30)		3.30	
									Very dense orange brown very sandy GRAVEL. Gravel is fine to coarse subangular to subrounded flint.
		4.00	SPT(S)	N=66 (12,15/16,16,16,18)		(1.50)			
		4.50	ES						
		4.80	HP	UCS(kPa)=300				4.80	Very stiff brownish grey silty CLAY.
		5.00	D						

Hole Details		Casing Details		Waterstrike (m bgl)						Standing/Chiselling (m bgl)			
Depth (m bgl)	Dia. (mm)	Depth (m bgl)	Dia. (mm)	Date	Depth Strike	Depth Casing	Depth Sealed	Rose to:	Time (mins)	From	To	Time	Remarks
					2.80				0				

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Start - End Date	Project ID:	Hole Type:	WLS2
	j14219	WLS	Sheet 2 of 2

Project Name:	1 St James Road	Remarks:	Co-ordinates:	Level:	Logger:
Location:	Hampton Hill, London				
Client:	Hampton Hick Ltd				

Well	Water Strikes	Samples and Insitu Testing: Depth (m bgl)	Type	Results	Level (m AOD)	Thickness (m)	Legend	Depth (m bgl)	Stratum Description
			HP SPT(S)	UCS(kPa)=300 14 (2,3/3,,5,6)		(0.65)		5.45	Very stiff brownish grey silty CLAY. End of Borehole at 5.45m

Hole Details		Casing Details		Waterstrike (m bgl)					Standing/Chiselling (m bgl)			
Depth (m bgl)	Dia. (mm)	Depth (m bgl)	Dia. (mm)	Date	Depth Strike	Depth Casing	Depth Sealed	Rose to:	Time (mins)	From	To	Time	Remarks
					2.80				0				

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Start - End Date	Project ID:	Hole Type:	WLS3
	j14219	WLS	Sheet 1 of 2

Project Name:	1 St James Road	Remarks:	Co-ordinates:	Level:	Logger:
					JAC
Location:	Hampton Hill, London				
Client:	Hampton Hick Ltd				

Well	Water Strikes	Samples and Insitu Testing: Depth (m bgl)	Type	Results	Level (m AOD)	Thickness (m)	Legend	Depth (m bgl)	Stratum Description
		0.10	ES			(0.30)			Brown silty gravelly SAND. Gravel is fine to coarse subangular to subrounded flint (TOPSOIL)
								0.30	
		0.50	ES			(0.30)			Brown silty gravelly SAND. Gravel is fine to coarse subangular to subrounded flint.
								0.60	
		1.00	ES SPT(S)	N=56 (7,12/14,14,15,13)					Very dense orange brown and grey very sandy GRAVEL. Gravel is fine to coarse subangular to subrounded flint.
		2.00	D SPT(S)	54 (13,18/54 for 225mm)					
	▼					(4.20)			
		3.00	SPT(S)	50 (12,12/50 for 220mm)					
		4.00	ES SPT(S)	50 (10,14/50 for 220mm)					
		4.80	HP	UCS(kPa)=300				4.80	Very stiff brown mottled grey silty slightly sandy CLAY.
		5.00	HP	UCS(kPa)=300					

1 2 3 4 5

Hole Details		Casing Details		Waterstrike (m bgl)						Standing/Chiselling (m bgl)			
Depth (m bgl)	Dia. (mm)	Depth (m bgl)	Dia. (mm)	Date	Depth Strike	Depth Casing	Depth Sealed	Rose to:	Time (mins)	From	To	Time	Remarks
					2.80				0				

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Start - End Date	Project ID:	Hole Type:	WLS3
	j14219	WLS	Sheet 2 of 2

Project Name:	1 St James Road	Remarks:	Co-ordinates:	Level:	Logger:
					JAC
Location:	Hampton Hill, London				
Client:	Hampton Hick Ltd				

Well	Water Strikes	Samples and Insitu Testing			Level (m AOD)	Thickness (m)	Legend	Depth (m bgl)	Stratum Description
		Depth (m bgl)	Type	Results					
			SPT(S)	N=26 (4,4/8,6,6,6)					Very stiff brown mottled grey silty slightly sandy CLAY.
		5.20	D						
		5.50	HP	UCS(kPa)=400		(1.20)			
								6.00	End of Borehole at 6.00m

Hole Details		Casing Details		Waterstrike (m bgl)					Standing/Chiselling (m bgl)			
Depth (m bgl)	Dia. (mm)	Depth (m bgl)	Dia. (mm)	Date	Depth Strike	Depth Casing	Depth Sealed	Rose to:	Time (mins)	From	To	Time	Remarks
					2.80				0				

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Start - End Date	Project ID:	Hole Type:	WLS4
	j14219	WLS	Sheet 1 of 1

Project Name:	1 St James Road	Remarks:	Co-ordinates:	Level:	Logger:
					JAC
Location:	Hampton Hill, London				
Client:	Hampton Hick Ltd				

Well	Water Strikes	Samples and Insitu Testing: Depth (m bgl)	Type	Results	Level (m AOD)	Thickness (m)	Legend	Depth (m bgl)	Stratum Description
		0.10	ES			(0.30)		0.30	Brown silty gravelly SAND. Gravel is fine to coarse subangular to subrounded flint (TOPSOIL)
		0.50	ES						Very dense orange brown and grey very sandy GRAVEL. Gravel is fine to coarse subangular to subrounded flint.
		1.00	B SPT(S)	N=49 (4,8/10,11,14,14)		(1.70)			
		2.00	B SPT(S)	N=58 (10,12/14,14,14,16)				2.00	End of Borehole at 2.00m

Hole Details		Casing Details		Waterstrike (m bgl)						Standing/Chiselling (m bgl)			
Depth (m bgl)	Dia. (mm)	Depth (m bgl)	Dia. (mm)	Date	Depth Strike	Depth Casing	Depth Sealed	Rose to:	Time (mins)	From	To	Time	Remarks

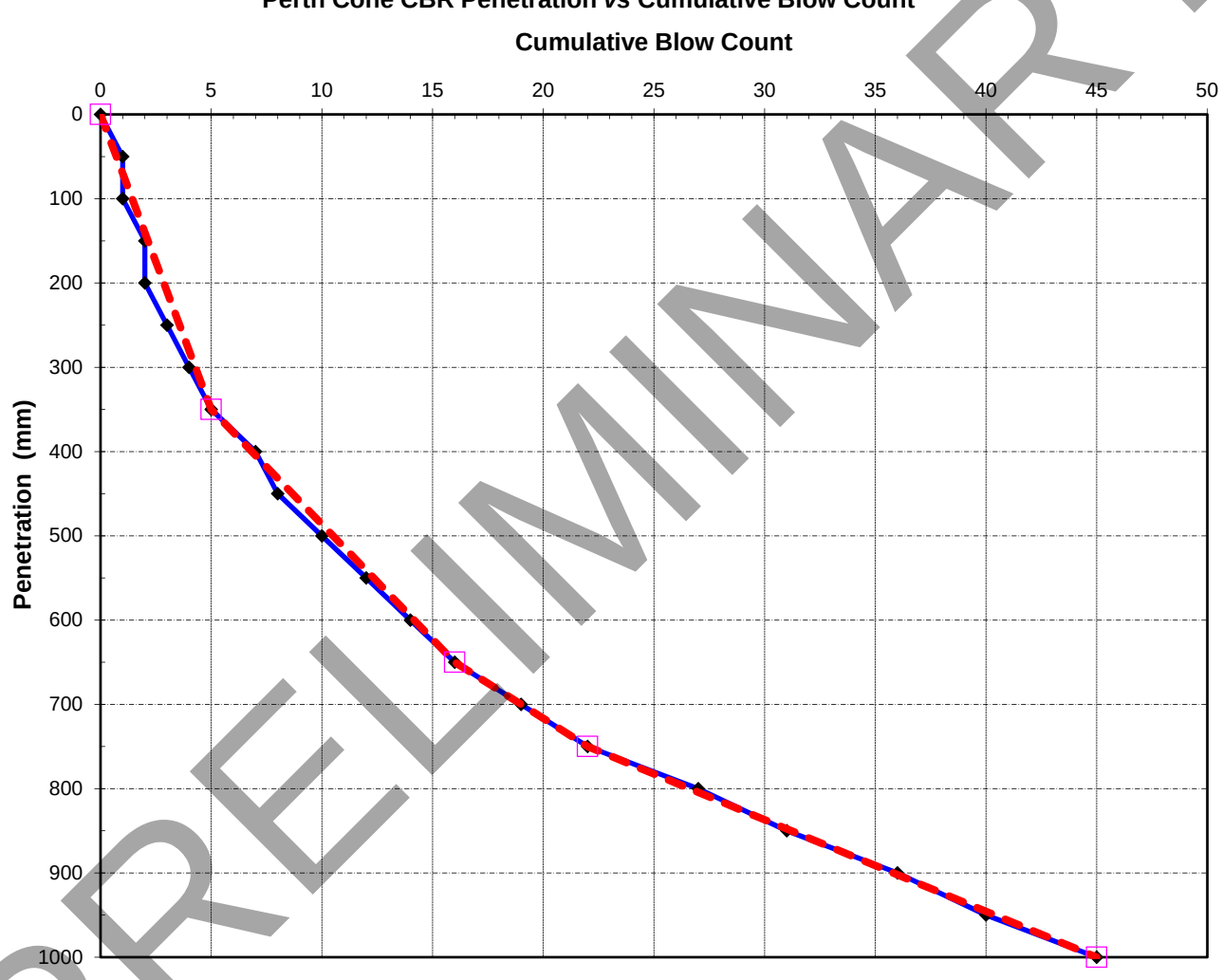
Dynamic Cone Penetrometer (DCP) Test Results

Test No: DCP1

Chainage:
Start Layer:
Soil Condition:
Notes:

Tested By: JAC
Checked By: JAC
Test Date: 30-Mar-20

Perth Cone CBR Penetration *vs* Cumulative Blow Count



Evaluated CBR Values from DCP Test Results

Layer No	From *(mm)*	To *(mm)*	Depth *(mm)*	Blow Count	No. of Blows	DCP *mm/blow*	CBR *%*	Soil Type	Remarks
1	0	350	350	5	5	70.0	1.9		
2	350	650	300	16	11	27.3	6.2		
3	650	750	100	22	6	16.7	12		
4	750	1000	250	45	23	10.9	20		

Client:	**Hampton Hick Ltd**	**Job No:** J14219	
Site:	**1 St James' Road**	**Date:**	**Fig.**

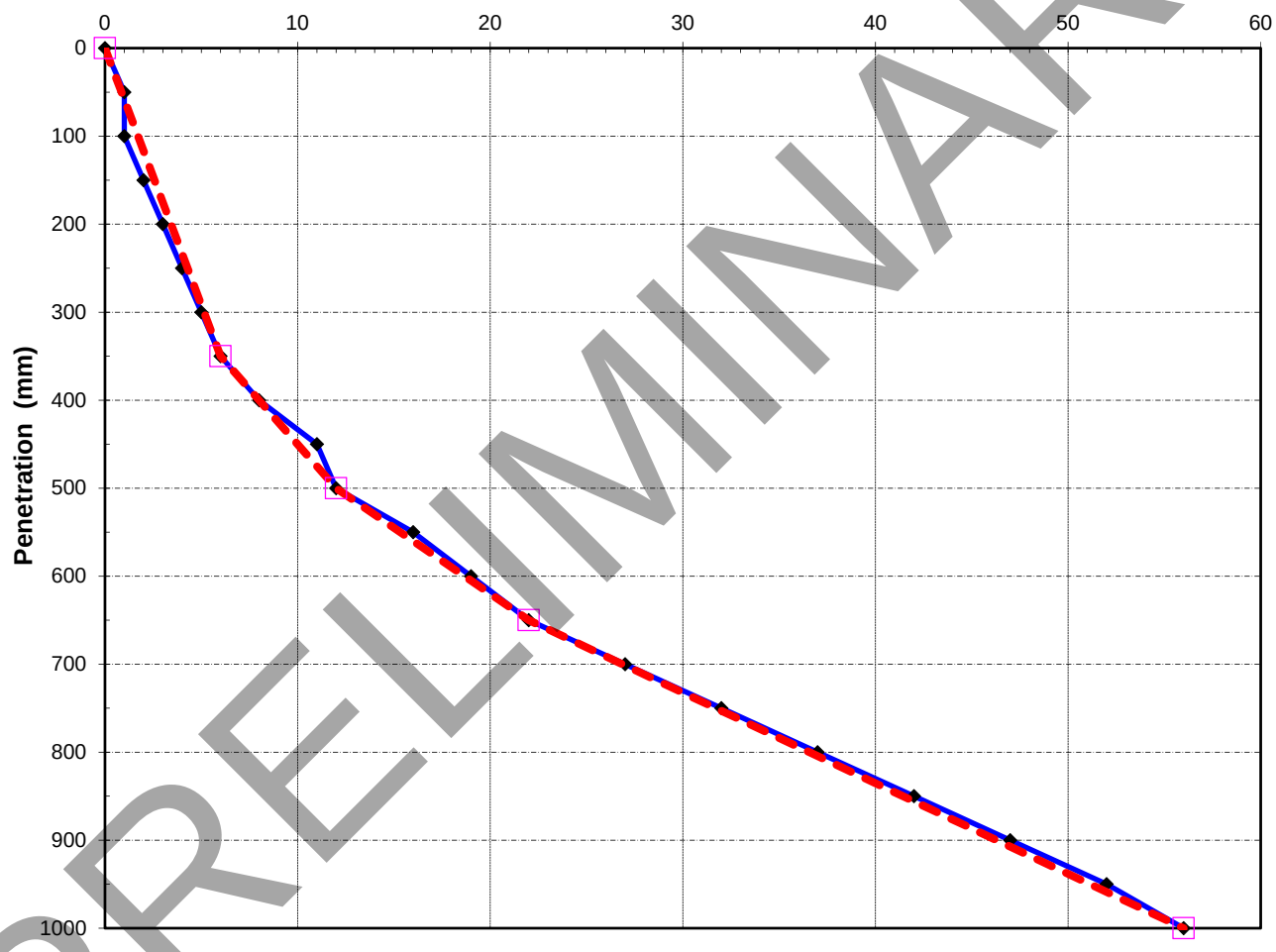
Dynamic Cone Penetrometer (DCP) Test Results

Test No: DCP2

Chainage:
Start Layer:
Soil Condition:
Notes:

Tested By: JAC
Checked By: JAC
Test Date: 30-Mar-20

Perth Cone CBR Penetration *vs* Cumulative Blow Count



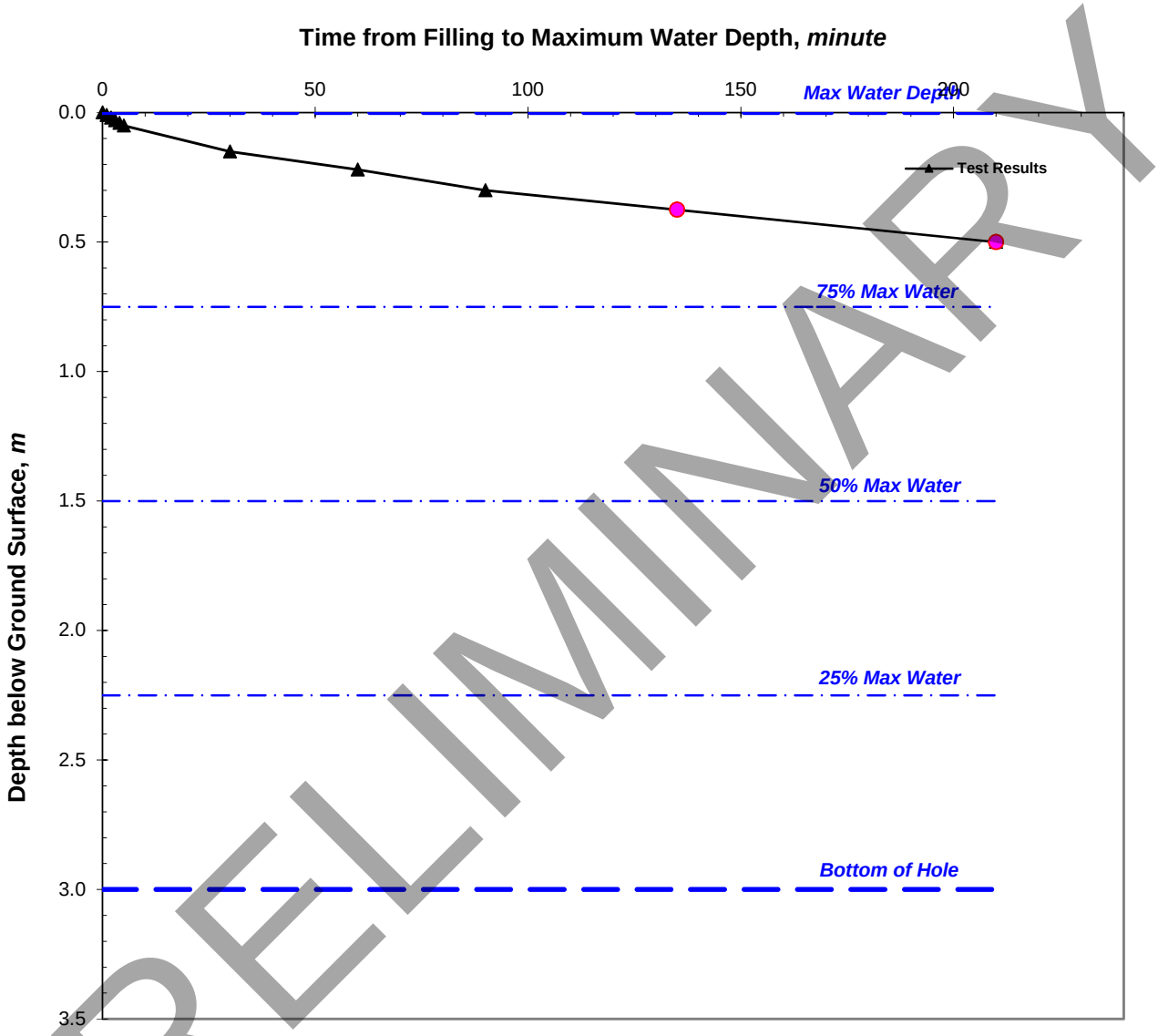
Evaluated CBR Values from DCP Test Results

Layer No	From *(mm)*	To *(mm)*	Depth *(mm)*	Blow Count	No. of Blows	DCP *mm/blow*	CBR *%*	Soil Type	Remarks
1	0	350	350	6	6	58.3	2.4		
2	350	500	150	12	6	25.0	7.0		
3	500	650	150	22	10	15.0	13		
4	650	1000	350	56	34	10.3	22		

Client:	**Hampton Hick Ltd**	**Job No:** J14219	
Site:	**1 St James' Road**	**Date:**	**Fig.**

Preliminary Falling-Head Soakage Test

Test Hole No: WLS1
Test No: Test No 1 (Initial)



Diameter of Borehole, m	0.100	Depth to Water at Start of Test, *m*	0.000
Depth to End of Borehole Casing, m		Max Water Dropdown during Test, *m*	0.500
Depth to Borehole Base, m	3.000	Total Soakage Test Time, *min*	210.0
Depth to Top of Permeable Soils, *m*		Mean Internal Discharge Area, m^2	0.813
Depth to Groundwater Surface, *m*		Discharge Rate, *litre/min*	0.013
Depth to Top of Granular Fill, *m*		Soakage Rate, *litre/m^2/min*	**0.016**
Voids Assumed within Borehole, %	100%	BRE Soil Infiltration Rate, *m/sec*	**2.68E-07**

Comments:

Water level did not fall to 75% max water depth, calculations were based on actual fall of water level achieved.
Result not compliant with BRE365 requirement since water did not fall to 25% max water depth.

Client:	Hampton Hick Ltd	**Job No:**	J14219	**Test Date:**	30/Jan/2019		
Site:	1 St James' Road, Hampton	**Tested By:**	JAC	**Engineer:**	JAC	**Fig.**	**S1**