

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH							Borehole No: WS1		
Client: Highgate School					Coordinates: 527890E, 187800N		Sheet 1 of 1		
Engineer: Pringuer-James Consulting Engineers Ltd					Ground Level: +105.75mOD		Report No: 9916A/MR		
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation	
	Type	Depth (m)		Depth (m)	Level (m)				
BH commenced: 17/12/2018				0.20	105.55		Grass over TOPSOIL. Occasional live roots.		
BH diameter 90mm GL to 1m, reducing with depth	D	0.30		0.45	105.30		MADE GROUND: dark grey black ashy slightly silty sandy gravel. Gravel is fine to coarse, angular to subrounded clinker and brick. Occasional ash pockets.		
	D	0.50		0.60	105.15		MADE GROUND: firm brown mottled grey brown slightly silty slightly gravelly clay. Gravel is fine to medium angular to subrounded flint and brick. Rare ash pockets and rare live roots. Slight organic odour.		
Water seepage at about 1.00m	HV	0.50	50				Firm locally soft orange brown and blue grey silty sandy CLAY with rare flint gravel. Occasional partings and lenses of silt and sand. Rare pockets of clayey silt.		
	HV	0.65	60						
	D	0.70							
	D	0.85							
	HV	0.85	50						
	D	0.95							
	HV	0.95	55						
	D	1.00							
	SPT/S	1.00	N=8						
	D	1.30							
	HV	1.30	40						
	HV	1.50	40						
	D	1.60							
	HV	1.70	44						
	D	1.90		1.85	103.90			Orange brown mottled grey clayey silty GRAVEL / gravelly CLAY. Gravel is fine to coarse subangular to subrounded flint. Firm locally soft orange brown and brown silty sandy CLAY. Occasional partings and lenses of silt and sand. Rare pockets of clayey silt.	
	HV	1.95	44	2.00	103.75				
	D	2.00							
	SPT/S	2.00	N=7						
D	2.30								
HV	2.50	35							
D	2.60								
HV	2.80	60							
D	2.95								
D	3.00								
SPT/S	3.00	N=8							
D	3.30								
HV	3.30	45							
D	3.60								
HV	3.60	50							
HV	3.80	50	3.80	101.95		Firm dark grey sandy silty to very silty CLAY with occasional silt and sand partings. <i>becoming slightly sandy below about 4.00m</i> <i>rare shells at about 4.60m</i>			
D	3.90								
D	4.00								
SPT/S	4.00	N=11							
D	4.60								
No recovery from 4.00m to 4.50m	D	4.80							
	HV	4.80	70						
	D	5.00							
	SPT/S	5.00	N=18						
BH complete: 17/12/2018 BH depth: 5.45m Water depth: dry 35mm ID monitoring pipe installed to 5.00m				5.45	100.30		End of hole at 5.45m		
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet								Borehole type: Dynamic Sampler	
Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)								Borehole No: WS1	

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH							Borehole No: WS2	
Client: Highgate School					Coordinates: 527878E, 187783N		Sheet 1 of 1	
Engineer: Pringuer-James Consulting Engineers Ltd					Ground Level: +106.70mOD		Report No: 9916A/MR	
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation
	Type	Depth (m)		Depth (m)	Level (m)			
BH commenced: 17/12/2018							MADE GROUND: asphalt.	
Water inflow at about 0.30m to 1.00m (fast) BH diameter 90mm GL to 1m, reducing with depth	D	0.20		0.15	106.55		MADE GROUND dark grey mottled black ashy slightly silty gravel. Gravel is fine to coarse, angular to subrounded clinker and brick. MADE GROUND: soft locally very soft brown mottled green grey slightly sandy silty clay. Rare brick fragments. Slight organic odour. MADE GROUND: soft dark brown mottled grey brown slightly sandy silty clay / clayey silt. Rare brick, flint and clinker gravel. Rare ash. Slight organic odour. Soft becoming firm brown and blue grey mottled orange brown silty CLAY. Rare flint gravel.	
	D	0.35		0.30	106.40			
	HV	0.35	38	0.40	106.30			
	D	0.50						
	HV	0.50	30	0.60	106.10			
	D	0.65						
	HV	0.70	30					
	D	0.85						
	HV	0.95	40					
	D	1.00						
No recovery from 2.00m to 2.30m	SPT/S	1.00	N=8					
	HV	1.25	50					
	D	1.30		1.30	105.40		Soft to firm orange brown mottled blue grey slightly sandy silty CLAY. Rare partings of silt and sand.	
	HV	1.45	40					
	HV	1.55	38					
	D	1.60						
	HV	1.75	40					
	D	1.90		1.85	104.85		<i>rare gravel below about 1.75m.</i>	
	D	2.00					Loose pale grey and orange brown clayey silty GRAVEL / gravelly CLAY. Gravel is fine to coarse angular to subrounded flint. Rare sand.	
	SPT/S	2.00	N=7					
No recovery from 4.00m to 4.70m				2.30	104.40		Soft locally firm brown mottled orange brown and blue grey silty sandy CLAY. Occasional partings of silt and sand.	
	D	2.50						
	HV	2.50	20					
	HV	2.70	35					
	D	2.75						
	D	2.95						
	HV	2.95	42					
	D	3.00						
	SPT/S	3.00	N=11					
	D	3.40						
D	3.60							
HV	3.65	30						
No recovery from 4.00m to 4.70m	D	3.95		3.90	102.80		Firm becoming stiff dark grey silty sandy CLAY. Occasional silt and sand partings.	
	D	4.00						
	SPT/S	4.00	N=13					
	HV	4.00	58					
	D	4.80						
	SPT/S	5.00	N=17					
BH complete: 17/12/2018 BH depth: 5.45m Water depth: dry 35mm ID monitoring pipe installed to 5.00m				5.45	101.25		End of hole at 5.45m	
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet								Borehole type: Dynamic Sampler
Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)								Borehole No: WS2

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH						Borehole No: WS3			
Client: Highgate School				Coordinates: 527973E, 187731N		Sheet 1 of 1			
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +109.25mOD		Report No: 9916A/MR			
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation	
	Type	Depth (m)		Depth (m)	Level (m)				
BH commenced: 17/12/2018				0.20	109.05		Grass over TOPSOIL. Occasional live roots.		
BH diameter 90mm GL to 1m, reducing with depth	D	0.40					MADE GROUND: dark brown / dark grey slightly clayey, slightly silty gravel. Gravel is fine to coarse, angular to subrounded igneous rock and flint.		
	HV	0.60	20	0.60	108.65		MADE GROUND: soft becoming firm dark grey brown and brown grey slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to subrounded flint, brick, igneous rock and clinker. Slight organic odour. <i>becoming dark green grey below about 0.85m.</i>		
	D	0.65							
	HV	0.80	45						
	D	0.90							
	D	1.00							
	SPT/S	1.00	N=8	1.10	108.15		Firm orange brown and blue grey slightly sandy silty CLAY with rare flint gravel. Occasional partings of silt and sand.		
	HV	1.20	55				<i>becoming sandy below about 1.40m.</i>		
	D	1.30							
	HV	1.40	65						
	D	1.60							
HV	1.70	65							
Water seepage at about 2.20m to 2.25m; sand lense	D	1.90		1.80	107.45		Orange brown and blue grey slightly silty gravelly CLAY / clayey GRAVEL. Gravel is fine to coarse, angular to rounded flint.		
	D	2.00		2.00	107.25		Soft to firm orange brown and blue grey silty to very silty sandy to very sandy CLAY. Occasional partings and pockets of clayey silt and sand.	2	
	SPT/S	2.00	N=8						
	HV	2.20	35						
	D	2.30							
	D	2.60					<i>locally grades to very clayey sand below about 2.70m.</i>		
	D	2.90							
	HV	2.90	36						
	D	3.00							
	SPT/S	3.00	N=12						
	No recovery from 3.00m to 3.45m Water inflow at about 3.00m to 3.50m (fast)	D	3.60						
HV		3.60	40						
D		3.80							
HV		3.90	40						
D		4.00		3.80	105.45		Firm dark grey silty sandy CLAY. Rare silt and sand partings.		4
SPT/S		4.00	N=12						
D		4.80							
HV		4.80	55						
D		5.00							
SPT/S		5.00	N=14						
BH complete: 17/12/2018 BH depth: 5.45m Water depth: 3.50m 35mm ID monitoring pipe installed to 5.00m					5.45	103.80		End of hole at 5.45m	
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet								Borehole type: Dynamic Sampler	
Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)								Borehole No: WS3	

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH						Borehole No: WS4		
Client: Highgate School				Coordinates: 527960E, 187718N		Sheet 1 of 1		
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +109.70mOD		Report No: 9916A/MR		
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation
	Type	Depth (m)		Depth (m)	Level (m)			
BH commenced: 17/12/2018							Grass over TOPSOIL. Occasional live roots.	
BH diameter 90mm GL to 1m, reducing with depth	HV	0.25	30	0.20	109.50		MADE GROUND: soft dark brown / dark grey slightly gravelly silty clay. Gravel is fine to coarse angular to subrounded flint, brick, concrete, quartzite and glass. Locally slightly sandy.	
	D	0.30						
	D	0.50						
	D	0.50	30					
	D	0.70						
	D	0.90		0.85	108.85		MADE GROUND: firm dark green grey silty to very silty clay with rare gravel-sized brick and clinker.	
	HV	0.90	60	1.00	108.70			
	SPT/S	1.00	N=8					
	HV	1.20	65				Firm orange brown and blue grey slightly sandy silty CLAY with rare flint gravel. Rare parting of silt and sand.	
	D	1.30						
	HV	1.50	45					
	D	1.60						
	HV	1.85	46				Loose to medium dense orange brown mottled dark orange brown very clayey GRAVEL / gravelly CLAY. Gravel is fine to coarse subangular to subrounded flint.	
	D	1.90		2.00	107.70			
	SPT/S	2.00	N=10					
D	2.20		2.35	107.35		Soft locally firm orange brown mottled brown and blue grey sandy silty to very silty CLAY. Occasional partings of silt and sand.		
D	2.50							
HV	2.50	30						
HV	2.70	35						
D	2.80							
HV	2.90	30						
D	3.00							
SPT/S	3.00	N=15						
D	3.20							
	D	3.50						
HV	3.60	45	3.60	106.10		Firm dark grey slightly sandy to sandy silty CLAY. Rare partings of silt and sand.		
D	3.80							
HV	3.80	42						
D	4.00							
SPT/S	4.00	N=14						
BH complete: 17/12/2018 BH depth: 5.00m, no recovery between 4.45m to 5.00m Water depth: 3.50m 35mm ID monitoring pipe installed to 4.00m				5.00	104.70		End of hole at 5.00m	
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet								Borehole type: Dynamic Sampling
Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)								Borehole No: WS4