

## BGS Borehole or well Record

BGS Reference  
British National Grid  
Depth:

SP50NW51 — OXFORD RELIEF ROAD SCHEME D56  
450820, 205730  
18.3m.

Continued

2/2

SP 50 NW/51 5082.0573

WM. COULSON LTD.,

### BOREHOLE LOG

Work for Oxford City Council Location Scheme D  
B.H. No. B56 Type of boring Shell and Auger  
Date(s) 19 & 20-11-69 Dia. of boring 0.20 m  
Ground Level ..... Lining tubes to 6.40 m  
Scale 50:1 C185

Description of Strata	Reduced Level	Legend	Thickness	Depth	SAMPLES Type Depth	NOTES
<b>OXFORD CLAY</b> <i>Stiff becoming hard bluish grey calcareous, shaly clay with selenite, iron pyrites and fossils.</i>					B { 10.06	
					10.67	
					10.97	
					(95) { 11.43	
					11.59	
					B { 12.20	
					12.50	
					(98) { 12.96	
					13.11	
					B { 13.72	
					14.17	
					(93) { 14.63	
					B { 15.24	
					15.69	
					(97) { 16.15	
<b>Borehole Completed.</b>					16.46	
					B { 17.07	
					17.22	
					(89) { 17.68	
					B { 18.30	
				18.30		
						<b>Water level:-</b> 1st. day 1st. encountered 2.74 m. p.m. 2.13 m. 2nd. day. Cut off by casing.

#### ABBREVIATIONS

U/L No. of

S S.P.T. CORE

REMARKS:-  
S.W.L. 2.93 m.

## BGS Borehole or well Record

BGS Reference  
British National Grid  
Depth:

SP50NW52 — OXFORD RELIEF ROAD SCHEME D57  
450890, 205740  
13.57m.

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*1/2 SP 50 NW/52 5089.0574 1:236*

WM. COULSON LTD.,

### BOREHOLE LOG


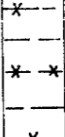

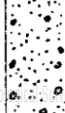
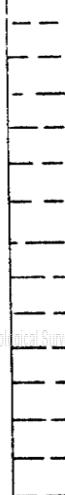
Work for *Oxford City Council* Location *Scheme 'D'*

B.H. No. *B 57* Type of boring *Shell and Auger*

Date(s) *22 & 24 - 11 - 69* Dia. of boring *0.20 m*

Ground Level *56.32* Lining tubes *to 5.49 m*

Scale *50:1* C185

Description of Strata	Reduced Level	Legend	Thickness	Depth	SAMPLES Type Depth	NOTES
<i>FILL - ash, brick, silt, clay.</i>			<i>1.60</i>		<i>B { C 0.76 1.22</i>	<i>N=10</i>
<i>Soft brown organic silty CLAY.</i>	<i>54.7</i>		<i>1.55</i>	<i>1.60</i>	<i>(21) { 1.83 2.29 B { 2.44 2.74</i>	
<i>Medium yellow brown SAND and fine and medium GRAVEL.</i>	<i>53.2</i>		<i>0.74</i>	<i>3.15</i>	<i>B { C 3.35 3.81</i>	<i>N=12</i>
<i>Medium yellow brown blowing SAND and fine and medium GRAVEL.</i>			<i>1.36</i>	<i>3.89</i>	<i>B { 4.27 4.57</i>	
<i>OXFORD CLAY. Stiff becoming hard bluish grey calcareous, shaly clay with selenite, iron pyrites and fossils.</i>	<i>51.1</i>		<i>8.32</i>	<i>5.25</i>	<i>(81) { 5.49 5.94 B { 6.40 6.71 7.01 (89) { 7.47 7.62 B { 7.93 8.54 (95) { 8.99 9.15 B { 9.45</i>	

*Borehole Continued.*

ABBREVIATIONS  
Samplest. 1 = Jar U4. No. of S S.P.T. CORE

REMARKS:-

## BGS Borehole or well Record

BGS Reference  
British National Grid  
Depth:

SP50NW52 — OXFORD RELIEF ROAD SCHEME D57  
450890, 205740  
13.57m.

Continued

7/2

SP 50 NW/52 5089.0574

WM. COULSON LTD.,

### BOREHOLE LOG

Work for. Oxford City Council Location Scheme 'D'  
B.H. No. B 57 Type of boring Shell and Auger  
Date(s) 22 & 24 - 11 - 69 Dia. of boring 0.20 m  
Ground Level ..... Lining tubes to 5.49 m.  
Scale 50:1 C185

Description of Strata	Reduced Level	Legend	Thickness	Depth	SAMPLES		NOTES
					Type	Depth	
OXFORD CLAY. Stiff becoming hard bluish grey calcareous, shaly clay with selenite, iron pyrites and fossils.					(103)	10.36	
						10.52	
					B	10.67	
						10.98	
			8.32			11.59	
					(105)	12.04	
						12.50	
					B	12.80	
						13.11	
				13.57	(110)	13.56	
Borehole Completed.							Water level :- 1st. day. 1st. encountered 3.84 m. p.m. nil. 2nd. day. nil.


#### ABBREVIATIONS

U4. No. of




S P.T. CORE

#### REMARKS:-

SWL. 1.94 m.

			Merebrook Consulting Limited Tel: 01773 829988 Fax: 01773 829393 email: consulting@merebrook.co.uk		<b>Plant:</b> 		Trialpit No <b>MTP101</b>	
<b>Project Name</b> Oxpens Lane			<b>Project No.</b> 18605		<b>Co-ords:</b> -		Sheet 1 of 1	
<b>Location:</b> Oxford			<b>Dimensions (m):</b> 		<b>Depth (m)</b> 3.00		<b>Date</b> 15/04/2014	
<b>Client:</b> Lambert Smith Hampton							<b>Scale</b> 1:25	
							<b>Logged By</b> MSG	

Samples & In Situ Testing			Depth in metres (thickness)	Legend	Stratum Description	
Depth (m)	Type	Results				
0.20	D,J		(0.40)		Grass over dark brown soft clayey TOPSOIL.	
0.50	D,J		0.40 (0.60)		Very soft grey mottled orange CLAY.	
1.00	D,J		1.00  (2.00)		Wet yellowish brown SAND AND GRAVEL. Sands were coarse to fine. Gravels comprised coarse to fine, sub angular to rounded.	1
			3.00	Trialpit Complete at 3.00 m		3
						4

<b>Remarks:</b>		IVN - in-situ hand vane IPP - in-situ pocket penetrometer PID - in-situ photoionization detector	D - small disturbed sample (tub) J - amber glass jar (250ml) V - amber glass jar (60ml) B - bulk disturbed sample
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**Project Name**

Oxpens Lane

**Project No.**

18605

**Co-ords**

-

**Hole Type**

WLS

**Location:** Oxford

**Level**

-

**Scale**

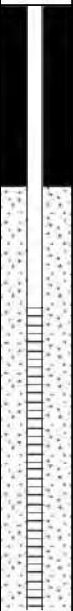


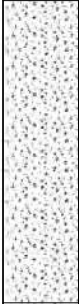

1:25

**Client:** Lambert Smith Hampton

**Dates:** 16/04/2014

**Logged By**

MSG

Well	Water Strike	Samples & In Situ Testing			Depth in metres (thickness)	Legend	Stratum Description	
		Depth (m)	Type	Results				
		0.20	D,J		(0.50)		Grass over firm dark brown silty sandy MADE GROUND with gravels. Gravels comprised coarse to fine, sub angular to angular bricks and glass.	
		0.50	D,J		0.50		Very soft grey mottled orange CLAY.	
		1.00	CPT	N=9	1.00		Yellowish brown clayey SAND AND GRAVEL. Comprised coarse sand and coarse to fine, subangular to angular flint gravels.	1
		1.00	D,J	(0,1,1,2,2,4)	(1.00)			
					2.00			2
		3.00	CPT	N=37	(3.00)		Yellowish brown sandy GRAVEL.	3
				(14,10,11,10,8,8)				
		4.00	CPT	N=14				4
				(11,4,2,3,4,5)				
End of Window Sample at 5.00 m								

**Remarks:**

IVN - in-situ hand vane  
IPP - in-situ pocket penetrometer  
SPT - in-situ standard penetration test  
PID - in-situ photoionization detector

D - small disturbed sample (tub)  
J - amber glass jar (250ml)  
V - amber glass jar (60ml)  
B - bulk disturbed sample

**Project Name**

Oxpens Lane

**Project No.**

18605

**Co-ords**

-

**Hole Type**

WLS

**Location:** Oxford

**Level**

-

**Scale**


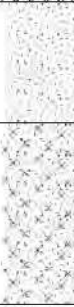


1:25

**Client:** Lambert Smith Hampton

**Dates:** 16/04/2014

**Logged By**

MSG


Well	Water Strike	Samples & In Situ Testing			Depth in metres (thickness)	Legend	Stratum Description	
		Depth (m)	Type	Results				
		0.60	D,J		(1.60)		Grass over firm dark brown silty sandy MADE GROUND with gravels. Gravels comprised coarse to fine, sub angular to angular bricks and glass.	1
		1.60	D,J		1.60		Reddish brown coarse SAND.	
		2.00	CPT	N=8	(0.40)			
		2.00	D,J	(2,2,2,2,2,2)	2.00		Black silty SAND	2
		2.60	D,J		(0.60)			
		2.60			2.60		Soft black mottled grey CLAY.	3
		4.00	CPT	N=29	(1.20)			
		4.00		(7,8,7,8,6,8)	3.80		Orange brown SAND AND GRAVEL.	4
					4.00		End of Window Sample at 4.00 m	

**Remarks:**

IVN - in-situ hand vane  
IPP - in-situ pocket penetrometer  
SPT - in-situ standard penetration test  
PID - in-situ photoionization detector

D - small disturbed sample (tub)  
J - amber glass jar (250ml)  
V - amber glass jar (60ml)  
B - bulk disturbed sample



					Cable Percussive Borehole Log			Borehole No.  BH 03							
Project Location: Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					Co-ords: 450673E - 205813N			Project Number: 20.10.004a							
					Level: 58.00 mAOD			Logged By: Ben Lee							
					Dates: 20-10-2020			to BS 5930:2015							
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description							
		Depth (m)	Type	Result											
		0.50	D	N=11 (6/3,3,2,3)	1.20	56.80		MADE GROUND Grey brown locally clayey gravelly SAND. Gravel is fine to coarse sub-angular red brick, granite and clinker	1						
		1.00	D												
		1.20 - 2.00	B								MADE GROUND Very soft and soft, dark brown and brown and locally black, sandy gravelly CLAY. Gravel is fine to coarse sub-angular concrete,	2			
		1.20	SPT(C)												
		1.50	D	N=16 (7/4,4,4,4)	2.75	55.25		ALLUVIUM Very Soft brown silty slightly gravelly CLAY. Gravel is fine to medium sub-angular flint and quartzite	3						
		2.00	D												
		2.50	D				N=22 (7/5,5,6,6)	4.30	53.70		NORTHMOOR SAND AND GRAVEL MEMBER Medium dense light brown slightly sandy fine to coarse sub-angular to sub-rounded quartzite, siltstone and chalk GRAVEL	5			
		2.50	SPT(C)												
		3.00	D	N=26 (8/6,6,7,7)	7.70	50.30					OXFORD CLAY FORMATION Stiff and very stiff grey CLAY with extremely thinly bedded silt lenses	8			
		3.50	D												
		3.50	SPT(C)				Ublows= 90				siltstone between 8.8m and 9.2m depth	9			
		4.00	D												
		4.50 - 5.00	B	50 for 95mm (22/17,33 for 20mm)											10
		4.50	SPT(C)												
		5.00	D												
		5.50	D												
		5.50	SPT(C)												
		6.00	D												
		6.50	D												
		6.50	SPT(C)												
		7.00	D												
		7.50	D												
		7.50 - 8.00	B												
		7.50	SPT(C)												
		8.00	D												
8.50	D														
8.50 - 8.95	U														
9.00	D														
		9.50	D												
		9.50	SPT(C)												
Borehole Diameter: Hand excavated to 1.2m depth; 150mm thereafter					Casing Depth: 8.00m										
Chiselling: 8.80m to 9.20m (0.5 hr) and 16.70m to 17.10m (1 hr)															
Instrumentation: Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.															
Groundwater: Groundwater struck at 4.60m; rising to 3.14m after 20 minutes monitoring															
Remarks: Co-ords and level extrapolated from client provided survey.															
Listers Geotechnical Consultants LTD www.listersgeotechnics.co.uk Tel: 01327 860060										Sheet 1 of 3					



					Cable Percussive Borehole Log				Borehole No. BH 03	
Project Location: Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					Co-ords: 450673E - 205813N  Level: 58.00 mAOD  Dates: 20-10-2020				Project Number: 20.10.004a	
									Logged By: Ben Lee to BS 5930:2015	
					Well	Water Strikes	Sample and In Situ Testing			Depth (m)
Depth (m)	Type	Result								
		10.00	D						OXFORD CLAY FORMATION Stiff and very stiff grey CLAY with extremely thinly bedded silt lenses   <	

		Cable Percussive Borehole Log					Borehole No. <b>BH 03</b>		
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					<b>Co-ords:</b> 450673E - 205813N  <b>Level:</b> 58.00 mAOD  <b>Dates:</b> 20-10-2020		<b>Project Number:</b> 20.10.004a		
							<b>Logged By:</b> Ben Lee to BS 5930:2015		
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
		21.00	D					OXFORD CLAY FORMATION Stiff and very stiff grey CLAY with extremely thin bedded silt lenses	21
		21.50	SPT(C)	N=50 (17/10,13,13,14)					22
		22.00	D						23
		22.50 - 22.95	U	Ublows= 100					24
		23.00	D						25
		24.00	D						26
		24.50	D						27
		24.50 - 24.95	D						28
		24.50	SPT(C)	N=47 (17/10,12,12,13)	25.00	33.00			29
		25.00	D				End of Borehole at 25.00m		30
<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter					<b>Casing Depth:</b> 8.00m				
<b>Chiselling:</b> 8.80m to 9.20m (0.5 hr) and 16.70m to 17.10m (1 hr)									
<b>Instrumentation:</b> Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.									
<b>Groundwater:</b> Groundwater struck at 4.60m; rising to 3.14m after 20 minutes monitoring									
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey.									
<b>Listers Geotechnical Consultants LTD</b> <a href="http://www.listersgeotechnics.co.uk">www.listersgeotechnics.co.uk</a> <b>Tel: 01327 860060</b>								Sheet 3 of 3	

					Cable Percussive Borehole Log			Borehole No. BH 04	
Project Location: Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					Co-ords: 450759E - 205822N			Project Number: 20.10.004a	
					Level: 57.28 mAOD			Logged By: Ben Lee	
					Dates: 19-10-2020			to BS 5930:2015	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
					0.10	57.18		FILL	
	▼				0.40	56.88		Asphalt	
		0.50 - 0.60	D					FILL	
								Concrete	
		1.00 - 1.10	D					MADE GROUND	
		1.20 - 1.60	D					Loose dark brown clayey sandy fine to coarse sub-angular siltstone, sandstone, concrete and less commonly clinker GRAVEL with occasional re-bar and pockets of dark brown slightly organic clay	1
	▼	1.20	SPT(C)	N=4 (4/1,1,1,1)					
		1.50 - 1.60	D		1.70	55.58		ALLUVIUM	
		2.00 - 2.45	D					Very soft and soft brown mottled black and grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium sub-angular flint, quartzite, siltstone, sandstone and chalk	2
		2.00	SPT(C)	N=6 (4/1,1,2,2)					
		2.50 - 2.60	D						
	☒	3.00 - 3.45	D		3.10	54.18		NORTHMOOR SAND AND GRAVEL MEMBER	3
		3.00 - 3.50	B					Medium dense light brown sandy fine to coarse sub-angular to sub-rounded quartzite, siltstone and chalk GRAVEL	
		3.00	SPT(C)	N=16 (5/3,4,4,5)					
		3.50 - 3.60	D						
		4.00 - 4.45	D						4
		4.00	SPT(C)	N=16 (6/3,4,4,5)					
		4.50 - 4.60	D						
		5.00 - 5.45	D						5
		5.00	SPT(C)	N=18 (7/4,4,5,5)					
		5.50 - 5.60	D						
		6.00 - 6.45	D						6
		6.00	SPT(C)	N=20 (7/4,5,5,6)					
		6.50 - 6.60	D						
		7.00 - 7.45	D						7
		7.00	SPT(C)	N=25 (9/5,6,7,7)					
		7.50 - 7.60	D		7.50	49.78		OXFORD CLAY FORMATION	
		8.00 - 8.45	D					Firm, becoming stiff below 9m depth, grey CLAY with extremely thinly bedded silt lenses	8
		8.00	SPT(S)	N=23 (9/5,5,6,7)					
		8.50 - 8.60	D						
		9.00 - 9.50	U	Ublows= 65					9
		9.50 - 9.60	D						
		10.00 - 10.45	D						10
Borehole Diameter: Hand excavated to 1.2m depth; 150mm thereafter					Casing Depth: 9.00m				
Chiselling: 14.00m to 14.50m (1 hr) and 17.10m to 17.50m (1 hr)									
Instrumentation: Finished with 300mm of asphalt over 200mm concrete at surface. Bentonite backfill 0.50 to 8.5m depth; backfilled with arising 8.5m to 25m depth.									
Groundwater: Groundwater struck at 0.40m; standing at 0.40m after 20 minutes monitoring. Inflows at 3.00m; standing at 1.50m after 20 minutes monitoring									
Remarks: Co-ords and level extrapolated from client provided survey.									
Listers Geotechnical Consultants LTD www.listersgeotechnics.co.uk Tel: 01327 860060									
Sheet 1 of 3									

					Cable Percussive Borehole Log			Borehole No. BH 04					
Project Location: Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					Co-ords: 450759E - 205822N  Level: 57.28 mAOD  Dates: 19-10-2020			Project Number: 20.10.004a					
								Logged By: Ben Lee to BS 5930:2015					
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Result									
		10.00	SPT(S)	N=29 (11/6,7,8,8)	16.00	41.28		OXFORD CLAY FORMATION Firm, becoming stiff below 9m depth, grey CLAY with extremely thinly bedded silt lenses	11				
		10.50 - 10.60	D										
		11.50 - 11.95	U	Ublows= 82									12
		12.00 - 12.10	D										
		13.00 - 13.45 13.00	D SPT(S)	N=35 (11/8,8,9,10)									
		14.00 - 14.10	D										
		14.50 - 14.95	U	Ublows= 90									14
		15.50 - 15.60	D										15
		16.00 - 16.45 16.00	D SPT(S)	N=38 (13/8,9,10,11)									16
		17.00 - 17.10	D										17
		18.50 - 18.60	D										18
		19.00 - 19.45 19.00	D SPT(S)	N=49 (16/10,11,13,15)									19
		20.00 - 20.10	D										20
Borehole Diameter: Hand excavated to 1.2m depth; 150mm thereafter					Casing Depth: 9.00m								
Chiselling: 14.00m to 14.50m (1 hr) and 17.10m to 17.50m (1 hr)													
Instrumentation: Finished with 300mm of asphalt over 200mm concrete at surface. Bentonite backfill 0.50 to 8.5m depth; backfilled with arising 8.5m to 25m depth.													
Groundwater: Groundwater struck at 0.40m; standing at 0.40m after 20 minutes monitoring. Inflows at 3.00m; standing at 1.50m after 20 minutes monitoring													
Remarks: Co-ords and level extrapolated from client provided survey.													
Listers Geotechnical Consultants LTD www.listersgeotechnics.co.uk Tel: 01327 860060									Sheet 2 of 3				

					Cable Percussive Borehole Log			Borehole No. <b>BH 04</b>			
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					<b>Co-ords:</b> 450759E - 205822N  <b>Level:</b> 57.28 mAOD  <b>Dates:</b> 19-10-2020			<b>Project Number:</b> 20.10.004a			
								<b>Logged By:</b> Ben Lee to BS 5930:2015			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Result							
		20.50 - 20.90	U	Ublows= 100	22.00	35.28		OXFORD CLAY FORMATION Stiff grey CLAY with extremely thinly bedded silt lenses	21		
		21.50 - 21.60	D								
		22.00 - 22.38	D					OXFORD CLAY FORMATION Hard grey CLAY with extremely thinly bedded silt lenses	22		
		22.00	SPT(S)	50 for 225mm (18/12,14,16,8 for 0mm)							
		23.00 - 23.10	D						23		
		23.50 - 23.70	U	Ublows= 100							
		24.50 - 24.60	D								
		25.00 - 25.35	D		25.00	32.28		End of Borehole at 25.00m	25		
		25.00	SPT(S)	52 for 200mm (21/15,19,18 for 50mm)							
									26		
									27		
									28		
									29		
									30		
<table border="1"> <tr> <td> <b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter  <b>Chiselling:</b> 14.00m to 14.50m (1 hr) and 17.10m to 17.50m (1 hr)  <b>Instrumentation:</b> Finished with 300mm of asphalt over 200mm concrete at surface. Bentonite backfill 0.50 to 8.5m depth; backfilled with arising 8.5m to 25m depth.  <b>Groundwater:</b> Groundwater struck at 0.40m; standing at 0.40m after 20 minutes monitoring. Inflows at 3.00m; standing at 1.50m after 20 minutes monitoring  <b>Remarks:</b> Co-ords and level extrapolated from client provided survey.         </td> <td> <b>Casing Depth:</b> 9.00m         </td> </tr> </table>										<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter <b>Chiselling:</b> 14.00m to 14.50m (1 hr) and 17.10m to 17.50m (1 hr) <b>Instrumentation:</b> Finished with 300mm of asphalt over 200mm concrete at surface. Bentonite backfill 0.50 to 8.5m depth; backfilled with arising 8.5m to 25m depth. <b>Groundwater:</b> Groundwater struck at 0.40m; standing at 0.40m after 20 minutes monitoring. Inflows at 3.00m; standing at 1.50m after 20 minutes monitoring <b>Remarks:</b> Co-ords and level extrapolated from client provided survey.	<b>Casing Depth:</b> 9.00m
<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter <b>Chiselling:</b> 14.00m to 14.50m (1 hr) and 17.10m to 17.50m (1 hr) <b>Instrumentation:</b> Finished with 300mm of asphalt over 200mm concrete at surface. Bentonite backfill 0.50 to 8.5m depth; backfilled with arising 8.5m to 25m depth. <b>Groundwater:</b> Groundwater struck at 0.40m; standing at 0.40m after 20 minutes monitoring. Inflows at 3.00m; standing at 1.50m after 20 minutes monitoring <b>Remarks:</b> Co-ords and level extrapolated from client provided survey.	<b>Casing Depth:</b> 9.00m										
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		Cable Percussive Borehole Log					Borehole No. <b>BH 05</b>		
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX		<b>Co-ords:</b> 450795E - 205714N					<b>Project Number:</b> 20.10.004a		
		<b>Level:</b> 57.00 mAOD					<b>Logged By:</b> Ben Lee		
		<b>Dates:</b> 15-10-2020 to 16-10-2020					to BS 5930:2015		
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
		0.30			0.30	56.70		FILL	<div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> <div>9</div> <div>10</div>
		0.50	D		0.80	56.20		Multicoloured medium sub-angular to angular red brick, flint, concrete, ceramic tile, and granite GRAVEL over a fabric membrane	
		1.00	D					MADE GROUND	
		1.20	SPT(S)	N=0 (1/0,0,0,0)				Brown clayey sandy fine to coarse red brick and concrete GRAVEL with low red brick and concrete cobble content	
		1.50	D					MADE GROUND	
		2.00	D					Soft dark brown mottled grey silty sandy gravelly CLAY. Gravel is fine to medium sub-angular quartzite, limestone and less commonly coal ash and clinker	
		2.00	SPT(S)	N=3 (1/0,1,1,1)	2.20	54.80			
		2.50	D					ALLUVIUM	
		3.00	D					Very soft grey brown mottled greenish grey and black slightly gravelly silty CLAY. Gravel is fine to coarse sub-angular flint	
		3.00	SPT(S)	N=27 (6/5,7,7,8)	3.20	53.80			
		3.50	D					NORTHMOOR SAND AND GRAVEL MEMBER	
		4.00	D					Medium dense light brown slightly clayey sandy fine to coarse sub-angular to sub-rounded quartzite and chalk GRAVEL	
		4.00	SPT(C)	N=30 (10/6,7,8,9)					
		4.50	D						
		5.00	D						
		5.00	SPT(C)	N=25 (11/6,4,7,8)					
		5.50	D						
		6.00	D						
		6.00	SPT(C)	N=24 (8/6,7,5,6)					
		6.50	D						
7.00	D			7.00	50.00				
7.00	SPT(S)	N=21 (7/4,5,6,6)					OXFORD CLAY FORMATION		
7.50	D						Stiff grey CLAY with extremely thinly bedded silt lenses		
8.00	D								
8.00	SPT(S)	N=22 (8/5,5,5,7)							
8.50	D								
9.00	D								
9.00 - 9.45	U	Ublows= 80							
9.50	D								
10.00	D								
<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter		<b>Casing Depth:</b> 8.00m							
<b>Chiselling:</b>									
<b>Instrumentation:</b> Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.									
<b>Groundwater:</b> Groundwater struck at 2.00m; standing at 1.00m after 20 minutes monitoring									
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey.									
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					Cable Percussive Borehole Log			Borehole No. BH 05	
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					<b>Co-ords:</b> 450795E - 205714N  <b>Level:</b> 57.00 mAOD  <b>Dates:</b> 15-10-2020 to 16-10-2020			<b>Project Number:</b> 20.10.004a	
								<b>Logged By:</b> Ben Lee to BS 5930:2015	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
		10.00	SPT(S)	N=29 (11/6,7,8,8)	11.00	46.00		OXFORD CLAY FORMATION Stiff grey CLAY with extremely thinly bedded silt lenses	11 12 13 14 15 16 17 18 19 20
		10.50	D						
		11.00	D						
		11.50 - 11.95	U	Ublows= 90					
		12.00	D						
		12.50	D						
		13.00	SPT(S)	N=34 (12/7,8,9,10)					
		13.50	D						
		14.00	D						
		14.50 - 14.95	U	Ublows= 110					
		15.00	D						
		15.50	D						
		16.00	SPT(S)	N=44 (15/10,10,11,13)					
		16.50	D						
		17.00	D						
		17.50 - 17.95	U	Ublows= 115					
		18.00	D						
		18.50	D						
		19.00	SPT(S)	N=46 (15/10,10,12,14)					
19.50	D								
20.00	D								
<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter					<b>Casing Depth:</b> 8.00m				
<b>Chiselling:</b>									
<b>Instrumentation:</b> Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.									
<b>Groundwater:</b> Groundwater struck at 2.00m; standing at 1.00m after 20 minutes monitoring									
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey.									
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		Cable Percussive Borehole Log						Borehole No. <b>BH 05</b>	
<b>Project Location:</b>		Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX				<b>Co-ords:</b>		450795E - 205714N	
						<b>Level:</b>		57.00 mAOD	
						<b>Dates:</b>		15-10-2020 to 16-10-2020	
						<b>Project Number:</b>		20.10.004a	
						<b>Logged By:</b>		Ben Lee to BS 5930:2015	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
		20.00 - 20.50	U	Ublows= 120				OXFORD CLAY FORMATION Very stiff grey CLAY with extremely thinly bedded silt lenses	21
		21.00	D						
		21.50	D						
		22.00	SPT(S)	50 for 265mm (16/10,12,15,13 for 40mm)	22.00	35.00		OXFORD CLAY FORMATION Hard grey CLAY with extremely thinly bedded silt lenses	22
		22.50	D						
		23.00	D						
		24.00	D						
		24.50	D						
		25.00	D		25.00	32.00			25
		25.00	SPT(S)	50 for 195mm (24/15,18,17 for 45mm)				End of Borehole at 25.00m	
									26
									27
									28
									29
									30
<b>Borehole Diameter:</b>		Hand excavated to 1.2m depth; 150mm thereafter				<b>Casing Depth:</b>		8.00m	
<b>Chiselling:</b>									
<b>Instrumentation:</b>		Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.							
<b>Groundwater:</b>		Groundwater struck at 2.00m; standing at 1.00m after 20 minutes monitoring							
<b>Remarks:</b>		Co-ords and level extrapolated from client provided survey.							
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					Cable Percussive Borehole Log			Borehole No. <b>BH 06</b>	
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					<b>Co-ords:</b> 450866E - 205709N  <b>Level:</b> 56.20 mAOD  <b>Dates:</b> 19-10-2020			<b>Project Number:</b> 20.10.004a	
								<b>Logged By:</b> Ben Lee to BS 5930:2015	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
		0.00	D		0.30	55.90		TOPSOIL Grass over dark brown sandy slightly organic CLAY with rootlets	1
		0.20	D						
		0.70	D		1.25	54.95		ALLUVIUM Very soft grey brown mottled black organic silty CLAY	2
		1.30	D						
		1.30	SPT		2.10	54.10		NORTHMOOR SAND AND GRAVEL MEMBER Medium dense buff brown sandy fine to coarse sub-angular to sub-rounded quartzite, flint and chalk GRAVEL	3
		1.30 - 1.50	B						
		1.80	SPT(S)	N=4 (2/1,1,1,1)	6.65	49.55		OXFORD CLAY FORMATION Firm, becoming stiff below 8m depth, grey CLAY with extremely thinly bedded silt lenses	7
		2.20	D						
		2.50	SPT(C)	N=16 (5/4,4,4,4)	8.20				8
		2.70	D						
		3.00 - 3.50	B		8.50 - 8.95				9
		3.50	SPT(C)	N=16 (6/4,4,4,4)					
		3.70	D		9.20				10
		4.20	D						
		4.50	SPT(C)	N=18 (7/4,5,5,4)					
		4.70	D						
		5.20	D						
		5.50	SPT(C)	N=20 (7/5,5,5,5)					
		5.70	D						
		6.20	D						
6.50	SPT(C)	N=18 (7/5,4,4,5)							
6.70	D								
7.00 - 7.50	B								
7.20	D								
7.50 - 7.95	U	Ublows= 80							
8.20	D								
8.50 - 8.95	D								
8.50	SPT(C)	N=24 (7/5,6,6,7)							
8.70	D								
9.20	D								
9.70	D								
10.00	SPT(C)	N=0 (25/0,0,0,0)							

<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter <b>Chiselling:</b> 10.00m to 10.45m (0.5 hr) and 16.30m to 16.60m (1 hr) <b>Instrumentation:</b> Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.	<b>Casing Depth:</b> 7.00m
<b>Groundwater:</b> Groundwater struck at 2.10m; rising to 1.51m after 20 minutes monitoring	
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey.	

					Cable Percussive Borehole Log			Borehole No. BH 06	
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					<b>Co-ords:</b> 450866E - 205709N  <b>Level:</b> 56.20 mAOD  <b>Dates:</b> 19-10-2020			<b>Project Number:</b> 20.10.004a	
								<b>Logged By:</b> Ben Lee to BS 5930:2015	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
		10.50 10.50 - 10.95	D U	Ublows= 100	13.00	43.20		OXFORD CLAY FORMATION Firm, becoming stiff below 8m depth, grey CLAY with extremely thinly bedded silt lenses <u>siltstone between 10m and 10.45m depth</u>	11
		11.50 12.00 - 12.45 12.00	D SPT(S)	N=28 (9/6,7,7,8)				12	
		12.50	D						
		13.50 13.50 - 13.95	D U	Ublows= 100				13	
		14.50	D					14	
		15.00	SPT(S)	N=31 (9/7,7,8,9)				15	
		16.50 16.50	D SPT(C)	50 for 105mm (19/17,33 for 30mm)				16	
		17.50	D					17	
		18.00 - 18.45	U	Ublows= 100				18	
		18.50	D					19	
		19.50 19.50 - 19.95 19.50	D SPT SPT(S)	N=45 (19/11,11,11,12)			20		
<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter <b>Chiselling:</b> 10.00m to 10.45m (0.5 hr) and 16.30m to 16.60m (1 hr) <b>Instrumentation:</b> Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.					<b>Casing Depth:</b> 7.00m				
<b>Groundwater:</b> Groundwater struck at 2.10m; rising to 1.51m after 20 minutes monitoring									
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey.									
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					Cable Percussive Borehole Log			Borehole No. <b>BH 06</b>	
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX					<b>Co-ords:</b> 450866E - 205709N			<b>Project Number:</b> 20.10.004a	
					<b>Level:</b> 56.20 mAOD			<b>Logged By:</b> Ben Lee to BS 5930:2015	
					<b>Dates:</b> 19-10-2020				
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Result					
		20.50	D		22.00	34.20		OXFORD CLAY FORMATION Very stiff grey CLAY with extremely thinly bedded silt lenses	21
		21.00 - 21.50	U	Ublows= 110					
		21.50	D						
		22.50	D						
		22.50 - 22.95	D						
		22.50	SPT(S)	N=51 (19/12,12,13,14)					
		23.50	D						
		24.00 - 24.45	U	Ublows= 110					
		24.50	D						
		25.00	D						25.00
25.00	SPT(S)	50 for 190mm (19/13,15,22 for 40mm)							
		End of Borehole at 25.00m						25	
								26	
								27	
								28	
								29	
								30	
<b>Borehole Diameter:</b> Hand excavated to 1.2m depth; 150mm thereafter					<b>Casing Depth:</b> 7.00m				
<b>Chiselling:</b> 10.00m to 10.45m (0.5 hr) and 16.30m to 16.60m (1 hr)									
<b>Instrumentation:</b> Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth.									
<b>Groundwater:</b> Groundwater struck at 2.10m; rising to 1.51m after 20 minutes monitoring									
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey.									
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		Trial Pit Log					Trial Pit No. <b>TP 03</b>	
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX						<b>Co-ords:</b> 450785E - 205749N		<b>Project Number:</b> 20.10.004a
						<b>Level:</b> 57.10 mAOD		<b>Logged By:</b> Ben Lee to BS 5930:2015
						<b>Dates:</b> 15-10-2020		
Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Result					
	0.20 - 0.80	D		0.10	57.00		FILL Multicoloured medium sub-angular to angular red brick, flint, concrete, ceramic tile, and granite GRAVEL over a fabric membrane MADE GROUND Brown clayey sandy fine to coarse red brick and concrete GRAVEL with low red brick and concrete cobble content <u>less cobbles with depth</u>	1 2 3 4
	1.00 - 1.50	D		0.70	56.40		MADE GROUND Black and brown gravelly SAND with low occasional glass bottles and ceramic pots. Gravel is fine to coarse sub-angular slag and flint	
	1.80 - 2.30	D		1.80	55.30		ALLUVIUM Very soft olive grey mottled light brown and orange brown silty CLAY with rare fine sandstone gravel and shell debris	
				2.60	54.50		End of Trial Pit at 2.60m	
<b>Method of excavation:</b> JCB 3CX						<b>Dimensions:</b> 0.60m x 1.80m x 2.60m		
<b>Stability:</b> Spalling sides throughout								
<b>Groundwater:</b> Seepages form 1.50m depth - standing at 1.95m depth after 4hrs monitoring								
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey. Backfilled with arisings on completion.								
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				Trial Pit Log			Trial Pit No. <b>TP 04</b>		
<b>Project Location:</b> Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Oxford, OX1 1RX				<b>Co-ords:</b> 450846E - 205729N  <b>Level:</b> 56.60 mAOD  <b>Dates:</b> 15-10-2020			<b>Project Number:</b> 20.10.004a		
							<b>Logged By:</b> Ben Lee to BS 5930:2015		
Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth (m)	Type	Result						
	0.05	D		0.10	56.50		TOPSOIL Grass over dark brown sandy slightly organic CLAY with rootlets	1	
	0.50	D		0.60	56.00		ALLUVIUM Orange brown clayey gravelly SAND. Gravel is fine to medium sub-angular flint, sandstone and chalk		
	1.00	D					ALLUVIUM Soft grey brown sandy slightly gravelly CLAY with occasional localised pockets of decaying matter. Gravel is fine sub-angular sandstone	2	
	1.50	D		1.60	55.00		ALLUVIUM Very soft dark grey sandy clayey SILT with rare fine shell debris		
	2.00	D		2.20	54.40		End of Trial Pit at 2.20m		3
<b>Method of excavation:</b> JCB 3CX				<b>Dimensions:</b> 0.60m x 1.80m x 2.60m				4	
<b>Stability:</b> Slightly spalling sides throughout									
<b>Groundwater:</b> Seepages at 1.60m depth									
<b>Remarks:</b> Co-ords and level extrapolated from client provided survey. Backfilled with arisings on completion.									
<b>Listers Geotechnical Consultants LTD</b> - <a href="http://www.listersgeotechnics.co.uk">www.listersgeotechnics.co.uk</a> Tel: 01327 860060								Sheet 1 of 1	

## **Appendix G      Tables of Estimated Risk**






Receptor	Receptor Sensitivity ('0' if not present)	Pathway	Present (Y=1, N=0)	EPH & Solvents	PAHs	Inorganics and Metals	Asbestos	Biocides	Permanent Gases	Consequence	Probability/ Likelihood	Estimated Risk
Human Health - On-Site Current Users	4	Ingestion of fruit or vegetable leaf or roots	0	✓	✓	✓	x	✓	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	✓	x	x	✓	x	N/A	Unlikely	N/A
		Ingestion of water / sediments when swimming	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
		Ingestion of soil/dust indoors	0	✓	✓	✓	✓	✓	x	N/A	Unlikely	N/A
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
		Inhalation of particles (dust / soil) indoor and outdoor	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
		Inhalation of vapours/gases – outdoor	1	✓	x	x	x	x	✓	Medium	Low	Moderate
		Inhalation of vapours/gases - indoor	0	✓	x	x	x	x	✓	N/A	Unlikely	N/A
		Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
		Dermal absorption via waters (swimming / showering)	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
Human Health On-Site Future User	4	Ingestion of fruit or vegetable leaf or roots	0	✓	✓	✓	x	✓	x	N/A	Low	N/A
		Ingestion of contaminated drinking water	0	✓	✓	x	x	✓	x	N/A	Low	N/A
		Ingestion of water / sediments when swimming	1	✓	✓	x	x	✓	x	Medium	Low	Moderate
		Ingestion of soil/dust indoors	0	✓	✓	✓	✓	✓	x	N/A	Unlikely	N/A
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of particles (dust / soil) indoor and outdoor	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
		Inhalation of vapours – outdoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
		Inhalation of vapours - indoor	0	✓	x	x	x	x	✓	N/A	Unlikely	N/A
		Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Dermal absorption via waters (swimming / showering)	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
Human Health - Neighbours	5	Ingestion of fruit or vegetable leaf or roots	1	✓	✓	✓	x	✓	x	Medium	Unlikely	Low
		Ingestion of contaminated drinking water	1	✓	✓	x	x	✓	x	Medium	Unlikely	Low
		Ingestion of water / sediments when swimming	1	✓	✓	x	x	✓	x	Medium	Low	Moderate
		Ingestion of soil/dust indoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of particles (dust / soil) indoor and outdoor	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of vapours – outdoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
		Inhalation of vapours - indoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
		Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Dermal absorption via waters (swimming / showering)	1	✓	✓	✓	✓	✓	x	Medium	Low	Moderate
Human Health - Construction/ Maintenance Workers	4	Ingestion of soil/dust indoors	1	✓	✓	✓	✓	✓	x	Medium	Likely	High
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Medium	Likely	High
		Inhalation of particles (dust / soil) outdoor	1	✓	✓	✓	✓	✓	x	Medium	Likely	High
		Inhalation of vapours – outdoor	1	✓	x	x	x	x	✓	Medium	Low	Moderate
		Inhalation of vapours - indoor	0	✓	x	x	x	x	✓	N/A	Low	N/A
		Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Medium	Likely	High
Groundwater (Shallow)	2	Leaching	1	✓	✓	✓	x	✓	x	Mild	Likely	Moderate
		Migration via natural or anthropogenic	1	✓	✓	✓	x	✓	x	Mild	Likely	Moderate
Groundwater (Deep)	1	Leaching	1	✓	✓	✓	x	✓	x	Minor	Unlikely	Very Low
		Migration via natural or anthropogenic	1	✓	✓	✓	x	✓	x	Minor	Unlikely	Very Low
Surface Water	3	Direct runoff or discharges from pipes	1	✓	✓	✓	✓	✓	x	Mild	Low	Low
		Indirect via recharge from groundwater (hydraulic flow)	1	✓	✓	✓	✓	✓	x	Mild	Low	Low
		Deposition of wind blown dust	1	✓	✓	✓	✓	✓	x	Mild	Low	Low
Property - Buildings	1	Direct contact	1	✓	✓	✓	x	x	x	Minor	Unlikely	Very Low
		Explosion due to gas migration via natural / anthropogenic	1	✓	x	x	x	x	✓	Minor	Unlikely	Very Low
Ecological Systems	2	Direct deposition of particles / dust - wind blown or flood	1	✓	✓	✓	✓	✓	x	Mild	Low	Low
		Indirect - through watering	1	✓	✓	✓	x	✓	x	Mild	Low	Low
		Inhalation of gases/vapours or particulates/dust by animals	1	✓	✓	✓	✓	✓	✓	Mild	Low	Low
		Ingestion of vegetation / water / soil by animals	1	✓	✓	✓	✓	✓	x	Mild	Low	Low
Property - Animal/Crop	2	Direct (including deposition via wind or flood)	1	✓	✓	✓	✓	✓	x	Mild	Low	Low
		Indirect (through watering)	1	✓	✓	✓	x	✓	x	Mild	Low	Low
		Inhalation of gas / vapour / particulates / dust by animals	1	✓	✓	✓	✓	✓	✓	Mild	Low	Low
		Ingestion of vegetation / water / soil by animals	1	✓	✓	✓	✓	✓	x	Mild	Low	Low

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely).  
The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology.  
Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

EPH = Extractable hydrocarbons  
PAHs = Poly Aromatic Hydrocarbons  
Note For Metals there is an Inhalation pathway if Mercury is present  
Note for PAHs there are Inhalation and/or Solubility pathways for some eg Naphthalene

	Client	Footpath Upgrade and Oxpens Footbridge, Osney, Oxford [Northern Part]						Date	07/07/2021
	Oxford City Council	TABLE SUMMARISING ONSITE POLLUTANT LINKAGES AND RISK ESTIMATION						A3 Scale	NTS
								Drawn By	az
								Checked By	
Caversham Bridge House, Waterman Place, Reading, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499		HAZARD CLASSIFICATION	3	THE POTENTIAL CONTAMINANTS OF CONCERN ARE :- Agrochemicals, hydrocarbons (TPH & PAH), metals					