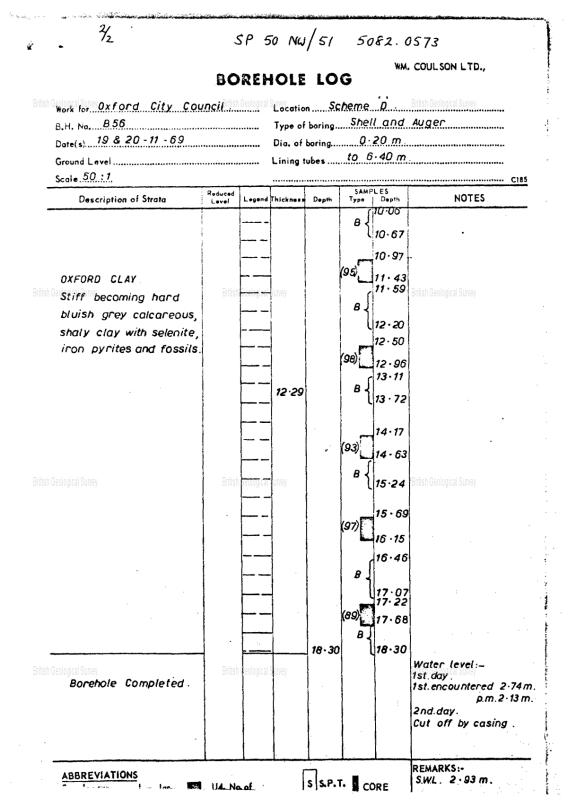


### **BGS Borehole or well Record**

BGS Reference British National Grid Depth: SP50NW51 — OXFORD RELIEF ROAD SCHEME D56 450820, 205730 18.3m.

### Continued

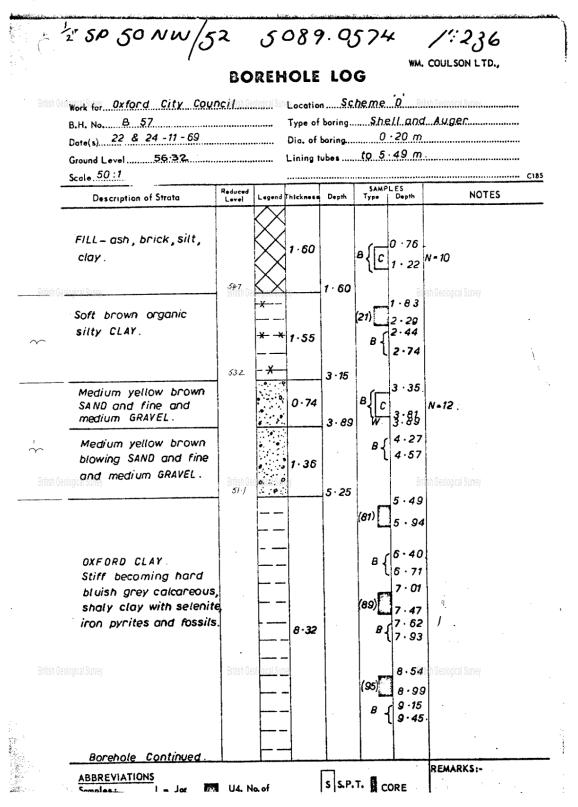




### **BGS Borehole or well Record**

BGS Reference British National Grid Depth: SP50NW52 — OXFORD RELIEF ROAD SCHEME D57 450890, 205740 13.57m.

### Page 1

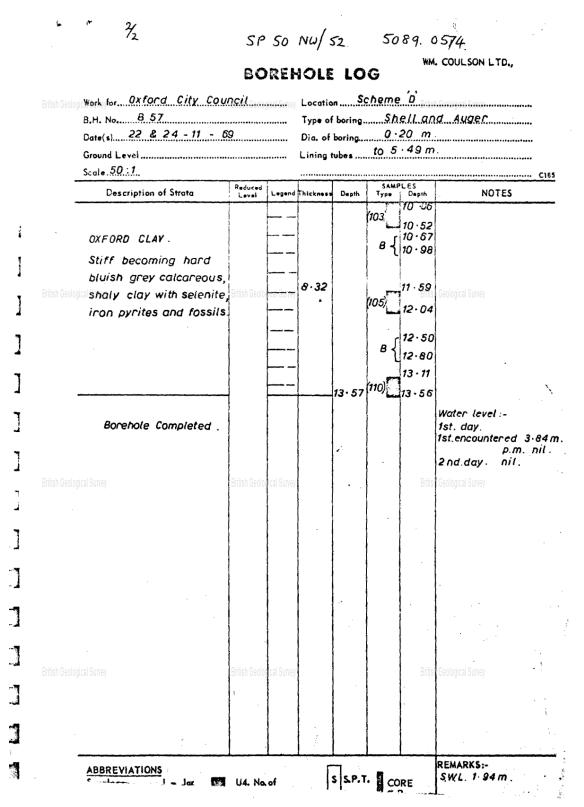




#### **BGS Borehole or well Record**

BGS Reference British National Grid Depth: SP50NW52 — OXFORD RELIEF ROAD SCHEME D57 450890, 205740 13.57m.

#### Continued



mere	ebro		Merebrook Cor Tel: 01773 829 Fax: 01773 829	9393			Plant:			Trialpit No MTP101	
			email: consulti	ng@mei	rebroc	ok.co.uk	Co-ords: -			Sheet 1 of 1	1
Project					Proj	ect No.	Dimensions (m)	):		Date	
Oxpens	s Lan	e			1860	)5		-		15/04/2014	
Locatio	on: (	Dxford					<b>Depth (m)</b> 3.00			<b>Scale</b> 1:25	
Client:		ambert Smit	h Hampton							Logged By MSG	′
Samp Depth (m)	les & li Type	n Situ Testing Results	Depth in met (thickness	tres s) Leg	gend		Stratum	Description			
0.20	D,J D,J			0.40			brown soft clayey TOPSC	DIL.			
1.00	D,J		(0.60)	1.00		Wet yellowish b comprised coars	rown SAND AND GRAVE se to fine, sub angular to r	L. Sands were coars ounded.	se to fine. Grav	els	1
			(2.00)	3.00			Trialpit Comp	elete at 3.00 m			2
											4
Remarks	s:				I		IVN - in-situ hand vane IPP - in-situ pocket penetr PID - in-situ photoionizatio	ometer on detector			D)

mere	ebro		Merebrook Co Tel: 01773 829 Fax: 01773 82	nsulting 9988 9393	Limite	ed	Plant:			Trialpit No	
			email: consulti	ng@me	rebroo	ok.co.uk	Co-ords: -			Sheet 1 of	1
Project					Proj	ect No.	Dimensions (m)	):		Date	
Oxpens	s Lan	e			1860	05		-		15/04/2014	ŀ
Locatio	on: (	Dxford					<b>Depth (m)</b> 3.00			<b>Scale</b> 1:25	
Client:		_ambert Smit	h Hampton							Logged By MSG	у
Samp Depth (m)	Ies & Ir Type	n Situ Testing Results	Depth in met (thickness	tres s) Leg	gend		Stratum	Description			
0.20	D,J D,J		(0.40) 0	0.40			brown soft clayey TOPSC	DIL.		-	
1.00	D,J			1.00		Wet yellowish b comprised coars	rown SAND AND GRAVE se to fine, sub angular to r	L. Sands were coars ounded.	se to fine. Grav	rels	- 1
			(2.00)	3.00			Trialpit Comp	lete at 3.00 m		- - - - - - - - - - - - - - - - - - -	· · · · · · · · · · · · · · · · · · ·
										- - - - - - - - - - - - - - - - - - -	
Remarks	s:			I	I		IVN - in-situ hand vane IPP - in-situ pocket penetr PID - in-situ photoionizatio	ometer on detector			b)

			(VZI	Merebrook Const Tel: 01773 82998 Fax: 01773 8293 email: consulting	93	.uk	Equipment and Methods	Window Sample MWS101 Sheet 1 of 1	N
	ect N		-		Project	No.	Co-ords	Hole Type	
-	ens L				18605		-	WLS	
-		: Oxford					Level	<b>Scale</b> 1:25	
Clier	nt:	Lambe	rt Sm	ith Hampton			Dates: 16/04/2014	Logged By MSG	
Well	Water Strike	Sample Depth (m)	es & II Type	n Situ Testing Results	Depth in metres (thickness)	Legend	Stratum Descr	iption	
		0.20	D,J		(0.50)		Grass over firm dark brown sitly sandy MA Gravels comprised coarse to fine, sub ang and glass.	DE GROUND with gravels. ular to angular bricks	
	2	0.50	D,J		0.50		Very soft grey mottled orange CLAY.		
					(0.50)				
		1.00 1.00	CPT D,J	N=9 (0,1,1,2,2,4)	1.00		Yellowish brown clayey SAND AND GRAV and coarse to fine, subangular to angular f	EL. Comprised course sand lint gravels.	
					(1.00)				
					2.00		Yellowish brown sandy GRAVEL.		
		3.00	СРТ	N=37 (14,10,11,10,8,8)					
		4.00	СРТ	N=14	(3.00)				
				(11,4,2,3,4,5)					
			Туре	Results			End of Window Sample a		1
Rema	arks:	:					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 J - amber glass jar (250ml) V - amber glass jar (60ml) B - bulk disturbed sample	

Tel: 01773 829988 Fax: 01773 829393 email: consulting@merebrook.co.uk	<b>MWS102</b> Sheet 1 of 1
den den sinder someren	Sheet 1 of 1
Project Name Project No. Co-ords	Hole Type WLS
Oxpens Lane 18605 - Location: Oxford Level	
Location: Oxford Level	<b>Scale</b> 1:25
	Logged By
Client: Lambert Smith Hampton Dates: 16/04/2014	MSG
Well         Water         Samples & In Situ Testing         Depth in metres         Legend         Stratum I	
Stratum I Stratum I Stratum I	
Grass over firm dark brown sitly sand Gravels comprised coarse to fine, su	b angular to angular bricks
and glass.	
	-
	-
0.60 D,J	-
(1.60)	-
	-
	-1
	-
	-
	-
	-
Reddish brown coarse SAND.	-
(0.40)	-
	T <sub>2</sub>
2.00         CPT         N=8         2.00         Black silty SAND           2.00         D,J         (2,2,2,2,2,2)         2.00         Black silty SAND	2
	-
(0.60)	-
	-
2.60 D,J 2.60 Soft black mottled grey CLAY.	
	-
	-
	-3
	-
(1.20)	-
	-
	-
	-
3.80	-
Orange brown SAND AND GRAVEL	
4.00 CPT N=29 4.00 End of Window Sa	
	-
	-
	-
	-
	r
	-
Type Results	
Remarks: IVN - in-situ hand vane	D - small disturbed sample (tub)
IPP - in-situ pocket penetrometer SPT - in-situ standard penetration	J - amber glass jar (250ml) test V - amber glass jar (60ml)
PID - in-situ photoionization detect	or B - bulk disturbed sample

HoleBASE 3.1 (Bid 426.46) Standard Borehole Log v2 dated 27th Nov 03

Borehole No.

Incla	at Lacat'	on: 01-	diagont to f	including Outrad !			Co order	450672E 205942N	Project Numbe
roje	ct Locati		djacent to 8 d, OX1 1R)	& including Oxford I (	ce Rink, O	kpens Rd,	Co-ords:	450673E - 205813N	20.10.004a
							Level:	58.00 mAOD	Logged By: Ben Lee
							Dates:	20-10-2020	to BS 5930:201
Vell	Water Strikes			Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	n
	Ourices	Depth (m)	Туре	Result	(11)			MADE GROUND	
		0.50	D					Grey brown locally clayey gravel Gravel is fine to coarse sub-angu granite and clinker	
		1.00 1.20 - 2.00 1.20 1.50	D B SPT(C) D	N=11 (6/3,3,2,3)	1.20	56.80		MADE GROUND Very soft and soft, dark brown ar locally black, sandy gravelly CLA to coarse sub-angular concrete,	
		2.00	D					to coarse sub-angular concrete,	
		2.50 2.50	D SPT(C)	N=16 (7/4,4,4,4)	2.75	55.25		ALLUVIUM	
		3.00 3.50	D					Very Soft brown silty slightly grav Gravel is fine to medium sub-ang quartzite	
		3.50 3.50	SPT(C)	N=22 (7/5,5,6,6)					
		4.00			4.30	53.70			
		4.50 - 5.00 4.50 5.00	B SPT(C) D	N=28 (7/6,6,8,8)				NORTHMOOR SAND AND GRA Medium dense light brown slight coarse sub-angular to sub-round siltstone and chalk GRAVEL	y sandy fine to
		5.50 5.50	D SPT(C)	N=26 (8/6,6,7,7)					
		6.00	D						
		6.50 6.50	D SPT(C)	N=27 (9/6,6,8,7)					
		7.00	D						
	-	7.50 7.50 - 8.00 7.50 8.00	D B SPT(C) D	N=24 (9/6,6,6,6)	7.70	50.30		OXFORD CLAY FORMATION Stiff and very stiff grey CLAY with thinly bedded silt lenses	n extremely
		8.50 8.50 - 8.95	DU	Ublows= 90					
		9.00	D					siltstone between 8.8m and 9.2m	depth
	-	9.50 9.50	D SPT(C)	50 for 95mm (22/17,33 for 20mm)					
hise	nole Dian Illing: Imentatio	8.8	30m to 9.20	ted to 1.2m depth; 1 0m (0.5 hr) and 16.7 kfill GL to 8m depth	0m to 17.1	0m (1 hr)	ng 8m to 25	Casing Depth: 8.00m	I
Grou	ndwater:	Gr	oundwater	struck at 4.60m; ris	ing to 3.14	m after 20	minutes m	onitoring	
tema	rks:	Co	o-ords and l	evel extrapolated fr	om client p	rovided su	IIVev.		

				Cable	Perc	uss	ive I	Borehole Log	Borehole BH 03	
Projec	ct Locat			including Oxford lo	ce Rink, Oxpe	ens Rd,	Co-ords:	450673E - 205813N	Project Nur 20.10.00	
		Oxford,	OX1 1RX	(			Level:	58.00 mAOD	Logged E	
							Level.	56.00 MAOD	Ben Lee	-
							Dates:	20-10-2020	to BS 5930:	2015
Well	Water	Sample	e and In S	Situ Testing	Depth	Level	Legend	Stratum Descript	on	
	Strikes	Depth (m)	Туре	Result	(m)	(m)	Logona			
		10.00	D					OXFORD CLAY FORMATION Stiff and very stiff grey CLAY wi	th extremely	11 12 13 14 15
		10.50 - 10.95	U	Ublows= 100				thinly bedded silt lenses		
		11.00								
		11.00	D							11
		12.00	D							12
		40.50		N=40						
		12.50	SPT(C)	N=42 (16/9,10,11,12)						
		13.00	D							13
		13.50 - 13.95	U	Ublows= 100						
		14.00								
		14.00	D							14
		15.00	D							15
		45 50 45 05								
		15.50 - 15.95 15.50	D SPT(C)	N=40						
		16.00	D	(16/9,9,10,12)						16
		16.50 - 16.70	U	Ublows= 100						
		47.00						siltstone between 16.7m and 17.	1m depth	
		17.00	D							17
		18.00	D							18
		18.50	D							
		18.50	SPT(C)	N=45						
		19.00	D	(16/10,11,12,12)						19
		19.50 - 19.95	U	Ublows= 100						
		20.00	D							20
				ad to 1 am darity 1	E0mm there	ftor		Cooling Dorth: 9.00		20
	ole Diar Iling:			ed to 1.2m depth; 1 m (0.5 hr) and 16.7				Casing Depth: 8.00m		
	mentati			kfill GL to 8m depth			ng 8m to 2	5m depth.		
rour	dwater:	Grou	indwater	struck at 4.60m; ris	ing to 3 14m	after 20	minuteem	onitorino		
Jour	awater:	Gibl	anowater	auduk at 4.00m, fis	ing to 5, 1411 a	aner 20	minutes m	omoning		
ema	rks:	Co-c	ords and l	evel extrapolated fr	om client prov	ided su	rvey.			
	-					_				-

				Cable	Per	cuss	sive E	Borehole Log	Borehole BH 03	
Proje	t Locat			& including Oxford Ic	ce Rink, Ox	pens Rd,	Co-ords:	450673E - 205813N	Project Nun 20.10.004	
		Oxford,	OX1 1R	×.			Level:	58.00 mAOD	Logged E	
							Deter	20-10-2020	Ben Lee	
						1	Dates:	20-10-2020	to BS 5930:	2015
Well	Water Strikes	Sample Depth (m)	e and In Type	Situ Testing Result	Depth (m)	Level (m)	Legend	Stratum Descript	ion	
		Deptir (iii)	Type	Nesur				OXFORD CLAY FORMATION Stiff and very stiff grey CLAY wi thinly bedded silt lenses	th extremely	
		21.00	D							21
		21.50	SPT(C)	N=50 (17/10,13,13,14)						
		22.00	D							
		.22.50 - 22.95	U	Ublows= 100						
		23.00	D							2
		24.00	D							2
		24.50 24.50 - 24.95 24.50	D D SPT(C)	N=47						
		25.00	D	(17/10,12,12,13)	25.00	33.00		End of Borehole at 25	i.00m	2
										2
										2
										2
										2
										3
nise stru	ole Dian Iling: mentati ndwater:	8.80 on: Ben	m to 9.20 tonite bac	ted to 1.2m depth; 1 Dm (0.5 hr) and 16.7 ckfill GL to 8m depth struck at 4.60m; risi	0m to 17.10 ; backfilled	0m (1 hr) with arisir				
ema	rks:	Co-c	ords and	level extrapolated fro	om client pr	rovided su	rvey.			
	List	ers Geotechn	ical Con	sultants LTD ww	w.listersge	otechnic	s.co.uk	Tel: 01327 860060	Sheet 3 of 3	-

				Cable	Per	cuss	sive I	Borehole Log	Borehole N	
									BH 04	
ojeo	t Locati		acent to a OX1 1R	& including Oxford Io	ce Rink, O	xpens Rd,	Co-ords:	450759E - 205822N	Project Num 20.10.004	
		exierd,	0/1110	× ·			Level:	57.28 mAOD	Logged B	y:
									Ben Lee	,
							Dates:	19-10-2020	to BS 5930:2	201
Vell	Water	Sample	e and In S	Situ Testing	Depth	Level	Legend	Stratum Descripti	on	Γ
	Strikes	Depth (m)	Туре	Result	(m) 0.10	(m) 57.18		FILL		+
	▼				0.40	56.88		Asphalt		1
		0.50 - 0.60	D		0.40	00.00		FILL Concrete		A
		1.00 - 1.10	D					MADE GROUND Loose dark brown clayey sandy	fine to coarse	
		1.20 - 1.60	D					sub-angular siltstone, sandstone	e, concrete and	
	⊻	1.20 1.50 - 1.60	SPT(C) D	N=4 (4/1,1,1,1)				less commonly clinker GRAVEL re-bar and pockets of dark brow		
		1.50 - 1.60			1.70	55.58		organic clay		
		2.00 - 2.45	D					ALLUVIUM Very soft and soft brown mottled		
		2.00	SPT(C)	N=6 (4/1,1,2,2)				slightly sandy slightly gravelly C fine to medium say sightly gravelly first		
		2.50 - 2.60	D					siltstone, sandstone and chalk	Contract of States	
		3.00 - 3.45	D							
		3.00 - 3.50	В		3.10	54.18		NORTHMOOR SAND AND GR		1
		3.00 3.50 - 3.60	SPT(C) D	N=16 (5/3,4,4,5)				Medium dense light brown sand sub-angular to sub-rounded qua		
								and chalk GRAVEL		
		4.00 - 4.45 4.00	D SPT(C)	N=16 (6/3,4,4,5)						
		4.50 - 4.60	D							
		5.00 - 5.45	D							
		5.00 5.50 - 5.60	SPT(C)	N=18 (7/4,4,5,5)						
		6.00 - 6.45 6.00	D SPT(C)	N=20 (7/4,5,5,6)						
		6.50 - 6.60	D							
		7.00 - 7.45	D							
		7.00	SPT(C)	N=25 (9/5,6,7,7)						
		7.50 - 7.60	D		7.50	49.78		OXFORD CLAY FORMATION Firm, becoming stiff below 9m d	epth, grev CLAY	
		8.00 - 8.45 8.00	D SPT(S)	N=23 (9/5,5,6,7)				with extremely thinly bedded sill		
		8.50 - 8.60	D							
		9.00 - 9.50	U	Ublows= 65						
		9.50 - 9.60	D							
		10.00 - 10.45								1
	ole Dian			ted to 1.2m depth; 1				Casing Depth: 9.00m		
	lling: mentatic	on: Finis	shed with		over 200mr	m concrete	at surface	a. Bentonite backfill 0.50 to		
our	dwater:	Grou	undwater		inding at 0.	40m after		s monitoring. Inflows at		-
ma	rks:			ing at 1.50m after 20 level extrapolated fro			irvev.			
	1.0	004								

									Borehole	No.
				Cable	Per	cuss	sive I	Borehole Log	BH 04	ŀ
rojec	t Locat		acent to OX1 1R	k including Oxford Ic	e Rink, Ox	opens Rd,	Co-ords:	450759E - 205822N	Project Nun 20.10.004	
		exierd,	0,11 110				Level:	57.28 mAOD	Logged B	By:
									Ben Lee	
							Dates:	19-10-2020	to BS 5930:2	2015
Vell	Water	Sample	e and In	Situ Testing	Depth	Level	Legend	Stratum Descript	ion	
	Strikes	Depth (m) 10.00	Type	Result	(m)	(m)		OXFORD CLAY FORMATION		
		10.50 - 10.60		N=29 (11/6,7,8,8)				Firm, becoming stiff below 9m of with extremely thinly bedded si		1.
		11.50 - 11.95	U	Ublows= 82						
		12.00 - 12.10	D							1
		13.00 - 13.45	D							ă
		13.00	SPT(S)	N=35 (11/8,8,9,10)						
										1 1
		14.00 - 14.10	D					siltstone between 14m and 14.5	n depth	11
		14.50 - 14.95	υ	Ublows= 90						
										1
		15.50 - 15.60	D							
		16.00 - 16.45	D		16.00	41.28				1
		16.00	SPT(S)	N=38				OXFORD CLAY FORMATION Stiff grey CLAY with extremely	thinly bedded silt	.
				(13/8,9,10,11)				lenses		
		17.00 - 17.10	D					siltstone between 17.1m and 17.	5m denth	1
									om dopar	
										1
		18.50 - 18.60	D							
		19.00 - 19.45	D							1
		19.00	SPT(S)							1
				(16/10,11,13,15)						
		20.00 - 20.10	D							2
				ted to 1.2m depth; 1				Casing Depth: 9.00m		
	ling: mentatio			.50m (1 hr) and 17.1				e. Bentonite backfill 0.50 to		
strui	neman			backfilled with arising				S. Demonite Dackin 0.50 to		
roun	dwater:	Grou	undwater	struck at 0.40m; sta	nding at 0.	40m after	20 minutes	s monitoring. Inflows at		
emai	ke.			ing at 1.50m after 20 level extrapolated fro			DIAN			
an al		00-0	and and	is the exclapsion of the	an onen p	Straca su				

Borehole No.

Well       Water Strikes       Sample and In Situ Testing         Well       Understand       Understand         Well       20.50 - 20.90       U       Ublows= 100	ce Rink, Ox Depth (m)	Level (m)	Co-ords: Level: Dates: Legend	57.28 mAOD 19-10-2020 Stratum Descripti	Project Numl 20.10.0044 Logged By Ben Lee to BS 5930:20	a <b>y</b> :
Water Strikes         Sample and In Situ Testing           Depth (m)         Type         Result			Dates:	19-10-2020 Stratum Descripti	Ben Lee to BS 5930:20	-
Strikes Depth (m) Type Result				Stratum Descripti	to BS 5930:2	
Strikes Depth (m) Type Result				Stratum Descripti		.013
Strikes Depth (m) Type Result			Legend	·	on	Γ
				OXFORD CLAY FORMATION Stiff grey CLAY with extremely t lenses	hinly bedded silt	2
21.50 - 21.60 D						
22.00 - 22.38 D 22.00 SPT(S) 50 for 225mm (18/12,14,16,8 for 0mm)	22.00	35.28		OXFORD CLAY FORMATION Hard grey CLAY with extremely silt lenses	thinly bedded	22
23.00 - 23.10 D						23
23.50 - 23.70 U Ublows= 100						24
24.50 - 24.60 D						
25.00 - 25.35 D 25.00 SPT(S) 52 for 200mm (21/15,19,18 for 50mm)	25.00	32.28		End of Borehole at 25.	00m	2
						20
						2
						28
						2
						30
iorehole Diameter:       Hand excavated to 1.2m depth; 1         thiselling:       14.00m to 14.50m (1 hr) and 17.1         instrumentation:       Finished with 300mm of asphalt of 8.5m depth; backfilled with arising         iroundwater:       Groundwater struck at 0.40m; standing at 1.50m after 20	10m to 17.5 over 200mn g 8.5m to 2 anding at 0.	i0m (1 hr) n concrete 5m depth. 40m after	at surface			
Remarks: Co-ords and level extrapolated fro			rvey.			
Listers Geotechnical Consultants LTD www	w.listersge	10.00	151.15 F	Tel: 01327 860060	Sheet 3 of 3	

Borehole No.

Proje	ct Locati		acent to OX1 1R	& including Oxford Io	ce Rink, Ox	pens Rd,	Co-ords:	450795E - 205714N	Project Numb 20.10.004a
		Chidid,		-			Level:	57.00 mAOD	Logged By:
							Dates:	15-10-2020 to 16-10-2020	Ben Lee to BS 5930:20
							Dates.	10-10-2020 10 10-10-2020	10 03 3930.20
Vell	Water Strikes	Sample Depth (m)	e and In Type	Situ Testing Result	Depth (m)	Level (m)	Legend	Stratum Descriptio	n
		Deptil (III)	туре	resuit				FILL	
		0.50	D		0.30	56.70		Multicoloured medium sub-angul red brick, flint, concrete, ceramic GRAVEL over a fabric membrane	tile, and granite
	_	1.00 1.20	D SPT(S)	N=0 (1/0,0,0,0)	0.80	56.20		MADE GROUND Brown clayey sandy fine to coars concrete GRAVEL with low red b concrete cobble content	
		1.50	D					MADE GROUND Soft dark brown mottled grey silty CLAY. Gravel is fine to medium s	
		2.00 2.00	D SPT(S)	N=3 (1/0,1,1,1)	2.20	54.80		quartzite, limestone and less con and clinker ALLUVIUM	
		2.50	D					Very soft grey brown mottled gree black slightly gravelly silty CLAY.	enish grey and Gravel is fine
		3.00 3.00	D SPT(S)	N=27 (6/5,7,7,8)	3.20	53.80		to coarse sub-angular flint	
		3.50	D					NORTHMOOR SAND AND GRA Medium dense light brown slightl fine to coarse sub-angular to sub quartzite and chalk GRAVEL	y clayey sandy
		4.00 4.00	D SPT(C)	N=30 (10/6,7,8,9)					
		4.50	D						
		5.00 5.00	D SPT(C)	N=25 (11/6,4,7,8)					
		5.50	D						
		6.00 6.00	D SPT(C)	N=24 (8/6,7,5,6)					
		6.50	D						
		7.00 7.00	D SPT(S)	N=21 (7/4,5,6,6)	7.00	50.00		OXFORD CLAY FORMATION Stiff grey CLAY with extremely th	inly bedded silt
		7.50	D					lenses	
	-	8.00 8.00	D SPT(S)	N=22 (8/5,5,5,7)					inly bedded silt
		8.50	D						
		9.00 9.00 - 9.45	D U	Ublows= 80					
		9.50	D						
	-	10.00	D						
hise	nole Diar Iling: Imentatio			ted to 1.2m depth; 1			ng 8m to 25	Casing Depth: 8.00m	
Grou	ndwater:	Gro	undwater	struck at 2.00m; sta	nding at 1.	00m after	20 minutes	s monitoring	
tema	rks:	Co-	ords and	level extrapolated fro	om client p	rovided su	rvey.		
	144 Q			sultants LTD www	6 1			Tel: 01327 860060	Sheet 1 of 3

Proje	ct Locat		acent to OX1 1R	& including Oxford Io	ce Rink, Ox	oens Rd,	Co-ords:	450795E - 205714N	Project Num 20.10.004	
		Oxiora,		A and a second s			Level:	57.00 mAOD	Logged B	y:
							Dates:	15-10-2020 to 16-10-2020	Ben Lee to BS 5930:2	
							Dates.	10-10-2020 10 10-10-2020	10 03 3930.2	
Vell	Water Strikes	Depth (m)	Type	Situ Testing Result	Depth (m)	Level (m)	Legend	Stratum Description	1	
		10.00		N=29 (11/6,7,8,8)				OXFORD CLAY FORMATION		+
		10.50	D					Stiff grey CLAY with extremely thin lenses	ny bedded sift	
		11.00	D		11.00	46.00				1.
		11.50 - 11.95	U	Ublows= 90				OXFORD CLAY FORMATION Very stiff grey CLAY with extreme bedded silt lenses	y thinly	- 11
		12.00	D							1:
		12.50	D							''
		13.00	SPT(S)	N=34 (12/7,8,9,10)						1:
		13.50	D							
		14.00	D							14
		14.50 - 14.95	υ	Ublows= 110						14
		15.00	D							15
		15.50	D							
		16.00	SPT(S)	N=44 (15/10,10,11,13)						16
		16.50	D							
		17.00	D							17
		17.50 - 17.95	U	Ublows= 115						
		18.00	D							18
		18.50	D							
		19.00	SPT(S)	N=46 (15/10,10,12,14)						19
		19.50	D							
		20.00	D							- 20
hise stru	nole Diar Illing: Imentation Indwater:	on: Bent	tonite ba	tted to 1.2m depth; 1 ckfill GL to 8m depth struck at 2.00m; sta	; backfilled	with arisir	ng 8m to 25			
ema	rks:	Co-c	ords and	level extrapolated fro	om client pr	ovided su	irvey.			
	List	ers Geotechni	cal Con	sultants LTD www	w.listersge	otechnic	s.co.uk	Tel: 01327 860060	Sheet 2 of 3	

#### Borehole No. **Cable Percussive Borehole Log** BH 05 Project Number: Site adjacent to & including Oxford Ice Rink, Oxpens Rd, Co-ords: 450795E - 205714N Project Location: 20.10.004a Oxford, OX1 1RX Logged By: Level: 57.00 mAOD Ben Lee Dates: 15-10-2020 to 16-10-2020 to BS 5930:2015 Sample and In Situ Testing Water Depth Level Well Legend Stratum Description (m) Strikes (m) Depth (m) Result Туре 20.00 - 20.50 Ublows= 120 OXFORD CLAY FORMATION U Very stiff grey CLAY with extremely thinly bedded silt lenses 21.00 D 21 D 21.50 SPT(S) 50 for 265mm 22.00 35.00 22.00 22 OXFORD CLAY FORMATION (16/10,12,15,13 for Hard grey CLAY with extremely thinly bedded 40mm) silt lenses D 22.50 23.00 D 23 24.00 D 24 24.50 D 25.00 D 25.00 32.00 25 End of Borehole at 25.00m 25.00 SPT(S) 50 for 195mm (24/15,18,17 for 45mm) 26 27 28 29 Ξ 30 Borehole Diameter: Hand excavated to 1.2m depth; 150mm thereafter Casing Depth: 8.00m Chiselling: Instrumentation: Bentonite backfill GL to 8m depth; backfilled with arising 8m to 25m depth. Groundwater: Groundwater struck at 2.00m; standing at 1.00m 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 3 of 3

Borehole No.

roje	ct Locati		jacent to 8 , OX1 1RX	k including Oxford lo	ce Rink, O	kpens Rd,	Co-ords:	450866E - 205709N	Project Number 20.10.004a
		Oxioid		<b>X</b>			Level:	56.20 mAOD	Logged By:
									Ben Lee
							Dates:	19-10-2020	to BS 5930:201
Well	Water	Sampl	e and In S	Situ Testing	Depth	Level	Lagand	Stratum Description	
vven	Strikes	Depth (m)	Туре	Result	(m)	(m)	Legend	•	
		0.00 0.20	D D		0.00	55.00		TOPSOIL Grass over dark brown sandy sli	abtly organic
		0.20			0.30	55.90		CLAY with rootlets	
		0.70	D					ALLUVIUM Soft grey brown silty CLAY	
		1.30	D		1.25	54.95		ALLUVIUM	
		1.30 1.30 - 1.50	SPT B					Very soft grey brown mottled bla CLAY	ck organic silty
		1.30	SPT(S)	N=4 (2/1,1,1,1)				OLAI	
		1.80 2.20	D D		2.10	54.10		NORTHMOOR SAND AND GRA	VEL MEMBER
		2.50	SPT(C)	N=16 (5/4,4,4,4)				Medium dense buff brown sandy sub-angular to sub-rounded qua	
		2.70	D	(,-,-,-,-,				chalk GRAVEL	izite, init and
		3.00 - 3.50	в						
		3.50 3.70	SPT(C) D	N=16 (6/4,4,4,4)					
		0.70							
		4.20	D						
		4.50	SPT(C)	N=18 (7/4,5,5,4)					
		4.70	D						
		5.20	D						
		5.50 5.70	SPT(C) D	N=20 (7/5,5,5,5)					
		0.70							
		6.20	D						
		6.50	SPT(C)	N=18 (7/5,4,4,5)					
		6.70	D		6.65	49.55		OXFORD CLAY FORMATION	
		7.00 - 7.50	В					Firm, becoming stiff below 8m de with extremely thinly bedded silt	
		7.20	D						
		7.50 - 7.95	U	Ublows= 80					
		8.20	D						
		8.50 - 8.95	D						
		8.50 8.70	SPT(C) D	N=24 (7/5,6,6,7)					
		9.20	D						
		3.20							
		9.70	D						
		10.00	SPT(C)	N=0 (25/0,0,0,0)					1
Boreh	ole Diar	neter: Har	d excavat	ted to 1.2m depth; 1	50mm the	reafter		Casing Depth: 7.00m	
Chise	lling:	10.0	00m to 10.	45m (0.5 hr) and 16	6.30m to 16	6.60m (1 h	r)	5 m 2 m 1	
nstru	mentatio	on: Ber	tonite bac	kfill GL to 8m depth	; backfilled	with arisi	ng 8m to 25	im depth.	
Groui	dwater:	Gro	undwater	struck at 2.10m; ris	ing to 1.51	m after 20	minutes m	onitoring	
					<b>Q</b>				
	rks:	Co-	I hne shin	evel extrapolated fr	om client n	rovided si	Nev		

				Cable	e Pero	cuss	sive l	Borehole Log	Borehole BH 06	
Projec	t Locat			& including Oxford I			1		Project Nun 20.10.004	nber
		Oxford,	OX1 1R	X			Level:	56.20 mAOD	Logged E	
									Ben Lee	Э
							Dates:	19-10-2020	to BS 5930:	2015
Well	Water Strikes	-	e and In	Situ Testing	Depth	Level (m)	Legend	Stratum Descrip	otion	
	Surkes	Depth (m)	Туре	Result	(m)	(11)		OXFORD CLAY FORMATION		-
		10.50 10.50 - 10.95	D U	Ublows= 100				Firm, becoming stiff below 8m with extremely thinly bedded s siltstone between 10m and 10.4	depth, grey CLAY ilt lenses	11
		11.50	D							
		12.00 - 12.45 12.00	D SPT(S)	N=28 (9/6,7,7,8)						1:
		12.50	D							
					13.00	43.20				- 1:
		13.50 13.50 - 13.95	DU	Ublows= 100				OXFORD CLAY FORMATION Very stiff grey CLAY with extre bedded silt lenses		
		13.30 - 13.35		0010W3-100						1
										Ι.
		14.50	D							
		15.00	SPT(S)	N=31 (9/7,7,8,9)						1
										1
		16.50 16.50	D SPT(C)	50 for 105mm (19/17,33 for 30mm)				siltstone between 16.3m and 16	6.6m depth	1
		17.50	D							
										1
		18.00 - 18.45	U	Ublows= 100						1
		18.50	D							
		19.50 19.50 - 19.95 19.50	D SPT SPT(S)	N=45 (19/11,11,11,12)						1
	ole Dia			ted to 1.2m depth; 1				Casing Depth: 7.00m		
	lling: mentati			.45m (0.5 hr) and 16 ckfill GL to 8m depth				5m depth.		
rour	dwater	. Grou	unowater	struck at 2.10m; ris	ing to 1.51n	n alter 20	minutes m	lonitoring		
lema	rks:	Co-c	ords and	level extrapolated fr	om client pr	ovided su	irvey.			
	List							Tel: 01327 860060	Sheet 2 of 3	

<b>D</b>	- <b>I</b>		NI
Bor	eho	le	NO.

roje	t Locat		acent to & OX1 1RX	k including Oxford lo	ce Rink, Ox	pens Rd,	Co-ords:	450866E - 205709N	Project Nu 20.10.00	
		Oxioid,		,			Level:	56.20 mAOD	Logged	By:
									Ben Le	
						1	Dates:	19-10-2020	to BS 5930	:201
Nell	Water Strikes	Sample Depth (m)	and In S	Situ Testing Result	Depth (m)	Level (m)	Legend	Stratum Description	n	
		Depth (iii)	Турс	rtesuit				OXFORD CLAY FORMATION	- h - th ! h -	
		20.50	D					Very stiff grey CLAY with extreme bedded silt lenses	ely minly	
		21.00 - 21.50	υ	Ublows= 110						21
		21.50	D							
					22.00	34.20		OXFORD CLAY FORMATION		_ 22
		22.50	D					Hard grey CLAY with extremely t silt lenses	hinly bedded	
		22.50 22.50 - 22.95 22.50	D SPT(S)	N=51						23
		00.50		(19/12,12,13,14)						23
		23.50	D							
		24.00 - 24.45	U	Ublows= 110						24
		24.50	D							
		25.00 25.00	D SPT(S)	50 for 190mm (19/13,15,22 for 40mm)	25.00	31.20		End of Borehole at 25.0	0m	- 25
										26
										27
										28
										25
										30
Chise nstru	ole Diar Iling: mentati	10.0 on: Bent	0m to 10. conite bac	ed to 1.2m depth; 1 45m (0.5 hr) and 16 kfill GL to 8m depth	5.30m to 16 ; backfilled	i.60m (1 h with arisir	ng 8m to 25			
	dwater			struck at 2.10m; risi				onitoring		
Rema	rks:	Co-c	ords and I	evel extrapolated fro	om client pr	rovided su	rvey.			

					Т	rial	Pit L	og	Trial Pit No. TP 03	
roject		Site adjace Oxford, OX	ent to & including	Oxford Ice R	ink, Oxper	ns Rd,	Co-ords:	450785E - 205749N	Project Numbe 20.10.004a	er:
							Level:	57.10 mAOD	Logged By:	
							Dates:	15-10-2020	Ben Lee to BS 5930:201	45
					1			19-10-2020	10 85 5930.201	15
Vater Strikes	-		Situ Testing	Depth (m)	Level (m)	Leger	d	Stratum Description		
	Depth (m) 0.20 - 0.80	Type D	Result	0.10	57.00		flint, co fabric MADE Brown	bloured medium sub-angular to a oncrete, ceramic tile, and granite membrane GROUND clayey sandy fine to coarse red te GRAVEL with low red brick a	e GRAVEL over a	
	1.00 - 1.50	D		0.70	56.40		Cobble Vess cob MADE Black a glass b	te GRAVEL with low red brick a content <u>bles with depth</u> GROUND and brown gravelly SAND with lo pottles and ceramic pots. Gravel igular slag and flint	ow occasional l is fine to coarse	1
	1.80 - 2.30	D		1.80	55.30		ALLUV Very s brown shell d	oft olive grey mottled light brown silty CLAY with rare fine sandst	and groupland	2
				2.60	54.50			End of Trial Pit at 2.60m		3
										4
lethod	of excavation	: JCB 3	BCX		Dimensi	ons: 0.	60m x 1.80	m x 2.60m		
tability	<i>r</i> :	Spalli	ng sides through	out						
round	water:	Seepa	ages form 1.50m	depth - stand	ling at 1.9	5m dept	h after 4hrs	monitoring		
emarl	ks:	Co-or	ds and level extr illed with arisings	apolated from	client pro					
		_	_			_				_
	Listers Geo	technical	Consultants L	D www.lis	tersgeote	echnics	.co.uk Te	el: 01327 860060	Sheet 1 of 1	

					Т	rial	Pit L	og	Trial Pit No.	
roject		Site adjace Oxford, O	ent to & including	Oxford Ice R	ink, Oxper	ns Rd, I	Co-ords:	450846E - 205729N	Project Numbe 20.10.004a	er:
						. I	evel:	56.60 mAOD	Logged By:	
									Ben Lee	
							Dates:	15-10-2020	to BS 5930:201	15
Vater	Samp	le and In S	Situ Testing	Depth	Level	Legen	- I	Stratum Description		
trikes	Depth (m)	Туре	Result	(m)	(m)	Logon		-		
	0.05	D		0.10	56.50		Vith ro	over dark brown sandy slightly ootlets /IUM	/	
	0.50	D					Orang mediu	e brown clayey gravelly SAND. m sub-angular flint, sandstone a	Gravel is fine to and chalk	
				0.60	56.00		occasi	/IUM rey brown sandy slightly gravelly ional localised pockets of decayi I is fine sub-angular sandstone	/ CLAY with ing matter.	
	1.00	D								1
	1.50	D								
$\nabla$				1.60	55.00		ALLUN Very s shell d	oft dark grey sandy clayey SILT	with rare fine	
	2.00	D								2
				2.20	54.40			End of Trial Pit at 2.20m		
										3
										4
ethod	of excavatio	n: JCB	3CX	1	Dimensio	ons: 0.6	60m x 1.80	m x 2.60m		-
ability	/:	Slight	ly spalling sides t	throughout						
	water:		ages at 1.60m de							
emarl		Co-or	ds and level extra filled with arisings	apolated from	n client pro on.	vided su	rvey.			
					10.0			745 C/R C/ 197		_
	Listers Ge	otechnica	Consultants L1	D www.lis	stersgeote	chnics.	co.uk Te	el: 01327 860060	Sheet 1 of 1	



# Appendix G Tables of Estimated Risk

Human Health On-Site Current Users4Human Health On-Site Future User4Human Health On-Site Future User5Human Health - Neighbours5Human Health - Neighbours5Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases – indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of soil/dust indoors         Ingestion of soil/dust indoors         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of vapours – outdoor         Inhalation of vapours – indoor         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of fruit or vegetable leaf or roots         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water	0 0 1 0 1 1 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1	$\begin{array}{c c} & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ & \land$	$ \begin{array}{c} \checkmark \\ \checkmark $	$ \begin{array}{c c} & \checkmark \\ & \times \\ & \checkmark \\ & \checkmark \\ & \checkmark \\ & \checkmark \\ & & \\ & $	X X V V V X X X X X X V V X X X V V X X V V V V V V V V V V V V V	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	X         X         X         X         X         √         √         X         ✓         ✓	N/A N/A Medium N/A Medium Medium N/A Medium N/A N/A N/A Medium N/A Medium N/A	N/A Unlikely Low Unlikely Low Low Unlikely Low Low Low Low Low Low Unlikely Unlikely Unlikely Unlikely Unlikely	N/A N/A Moderate N/A Moderate Moderate N/A Moderate N/A N/A N/A N/A Low Moderate Low
On-Site Current Users4Human Health On-Site Future User4Human Health On-Site Future User5Human Health - Neighbours5Human Health - Neighbours5Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases – indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Ingestion of soil/dust outdoors         Ingestion of soil/dust outdoors         Inhalation of vapours – outdoor         Inhalation of vapours – outdoor         Inhalation of vapours – outdoor         Inhalation of vapours – indoor         Dermal absorption via direct contact with soil         <	1 0 1 1 1 1 0 1 1 0 1 1 0 0 1 1 0 1 1 0 1 1 1 1 1	$\begin{array}{c} & & \\$	x √ √ √ √ √ √ √ ×	$\begin{array}{c c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$	✓ ✓ ✓ ✓ × × ✓ ✓ ✓ × × ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	x V V V V V V V V V V	x x x x x x y x x x x x x x x x x x x x	Medium N/A Medium Medium Medium N/A Medium Medium N/A N/A N/A N/A Medium N/A Medium N/A Medium N/A Medium N/A Medium Medium Medium Medium	Low Unlikely Low Low Low Unlikely Low Low Low Low Low Low Unlikely Unlikely Low Unlikely	Moderate N/A Moderate Moderate Moderate N/A Moderate N/A Moderate N/A N/A N/A Moderate N/A Low Moderate Low N/A
On-Site Current Users4Human Health On-Site Future User4Human Health On-Site Future User5Human Health - Neighbours5Human Health - Neighbours5Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases – indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of soil/dust indoors         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of vapours – outdoor         Inhalation of vapours – outdoors         Ingestion of soil/dust outdoors         Ingestion of vapours – outdoor         Inhalation of vapours – outdoor         Inhalation of vapours – indoor         Dermal absorption via direct contact with soil         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of contaminated drinking water         Ingestion of soil/dust	1 1 1 0 1 1 0 1 1 0 0 1 1 0 1 1 1 1	$\begin{array}{c} & & \\$	x √ √ √ √ √ √ √ ×	$\begin{array}{c} \checkmark \\ \checkmark \\ \checkmark \\ \hline \\ \times \\ \hline \\ \times \\ \hline \\ \checkmark \\ \hline \\ \checkmark \\ \hline \\ \checkmark \\ \hline \\ \checkmark \\ \hline \\ \hline$	✓ ✓ ✓ × × ✓ ✓ × × × × ✓ ✓ ✓ × × ✓ ✓ ✓ ×	x V V V V V V V V V V	× × × × × × × × × × × × × ×	N/A Medium Medium Medium N/A Medium N/A N/A N/A Medium N/A Medium Medium Medium	Unlikely Low Low Unlikely Low Low Low Low Low Low Unlikely Unlikely Low Unlikely	N/A Moderate Moderate N/A Moderate N/A N/A N/A Moderate N/A Low Moderate Low N/A
On-Site Current Users4Human Health On-Site Future User4Human Health On-Site Future User5Human Health - Neighbours5Human Health - Neighbours5Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust outdoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of vapours – outdoor         Inhalation of vapours – outdoor         Inhalation of vapours – outdoors         Ingestion of soil/dust outdoors         Ingestion of soil/dust outdoors         Inhalation of vapours – outdoor         Inhalation of vapours – outdoor         Inhalation of vapours – indoor         Dermal absorption via direct contact with soil         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of fruit or vegetable leaf or roots         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of contaminated drinking water         Ingestion of soil/dust indoors         Ingestion of soil/dust indoors<	1 1 1 0 1 1 0 1 1 0 0 1 1 0 1 1 1 1	$ \begin{array}{c c}                                    $	x √ √ √ √ √ √ √ ×	$ \begin{array}{c} \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} $	x √ √ x x x √ √ √ x x	x V V V V V V V V V V	x x x v v v v x x x x x x x x x x x x x	Medium Medium Medium N/A Medium N/A N/A N/A Medium N/A Medium Medium Medium	Low Low Low Unlikely Low Low Low Low Low Unlikely Unlikely Low Unlikely	Moderate Moderate Moderate N/A Moderate N/A N/A Moderate N/A Low Moderate Low N/A
On-Site Current Users4Human Health On-Site Future User4Human Health On-Site Future User5Human Health - Neighbours5Human Health - Neighbours5Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours/gases – outdoor Inhalation of vapours/gases - indoor Dermal absorption via direct contact with soil Dermal absorption via waters (swimming / showering) Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of contaminated drinking water Ingestion of soil/dust indoors Ingestion of soil/dust outdoors Inhalation of soil/dust outdoors Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours – outdoor Inhalation of vapours – outdoor Inhalation of vapours - indoor Dermal absorption via direct contact with soil Dermal absorption via waters (swimming / showering) Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of contaminated drinking water Ingestion of soil/dust indoors	1 1 0 0 1 0 1 0 1 1 1 1	$\begin{array}{c c} & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \land$	x √ √ √ √ √ √ √ ×	$ \begin{array}{c} \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} $	x √ √ x x x √ √ √ x x	x V V V V V V V V V V	x √ × x x x x x x x x x x x x x	Medium Medium N/A Medium N/A N/A N/A Medium N/A Medium Medium Medium	Low Low Unlikely Low Low Low Low Unlikely Unlikely Low Unlikely	Moderate Moderate N/A Moderate M/A N/A Moderate N/A Low Moderate Low
Human Health On-Site Future User4Human Health - Neighbours5Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of vapours/gases – outdoor         Inhalation of vapours/gases - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of vapours – outdoor         Inhalation of vapours – outdoor         Inhalation of vapours – indoor         Dermal absorption via waters (swimming / showering)         Ingestion of soil/dust outdoors         Inhalation of vapours – outdoor         Inhalation of vapours – indoor         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of contaminated drinking water         Ingestion of soil/dust indoors         Ingestion of soil/dust indoors	1 1 0 0 1 0 1 0 1 1 1 1	$\begin{array}{c c} & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ \\ & \land \\ \\ \\ \\$	x √ √ √ √ √ √ √ ×	$ \begin{array}{c} \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} $	x √ √ x x x √ √ √ x x	x V V V V V V V V V V	× √ × × × × × × × × × ×	Medium N/A Medium Medium N/A N/A N/A Medium N/A Medium N/A Medium N/A Medium Medium Medium Medium	Low Unlikely Low Low Low Low Low Unlikely Unlikely Low Unlikely	Moderate N/A Moderate Moderate N/A Moderate N/A Low Moderate Low
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of vapours/gases - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours – outdoor         Inhalation of vapours – indoor         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of vapours – indoor         Inhalation of vapours – indoor         Ingestion of fruit or vegetable leaf or roots         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of soil/dust indoors         Ingestion of soil/dust indoors	1 1 0 0 1 0 1 0 1 1 1 1	$\begin{array}{c c} & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ \\ & \land \\ \\ \\ & \land \\ \\ & \land \\ \\ \\ & \land \\ \\ \\ \\$	x √ √ √ √ √ √ √ ×	$ \begin{array}{c} \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} \\ \mathbf{} \\ \mathbf{x} \\ \mathbf{x} \\ \mathbf{} $	x √ √ x x x √ √ √ x x	x V V V V V V V V V V	X X X X X	N/A Medium Medium N/A N/A Medium N/A Medium Medium Medium	Unlikely Low Low Low Low Low Unlikely Unlikely Low Unlikely	N/A Moderate Moderate N/A Moderate N/A Low Moderate Low
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours – outdoor         Inhalation of vapours - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of fruit or vegetable leaf or roots         Ingestion of soil/dust indoors         Ingestion of soil/dust indoors	1 1 0 0 1 0 1 0 1 1 1 1	V       V	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	x √ √ × × × × × × √ × × √ × × √ ×	✓ ✓ × × × ✓ ✓ ✓ ✓ ✓ ×	x √ √ √ √ √ √ √ × x √	X X X X X	Medium Medium N/A N/A Medium N/A Medium Medium Medium	Low Low Low Low Low Unlikely Unlikely Low Unlikely	Moderate Moderate N/A N/A Moderate N/A Low Moderate Low N/A
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours – outdoor         Inhalation of vapours - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of soil/dust indoors	0 1 0 1 1 1 1 1	√       √		x √ √ × × × × × × √ × × √ × × √ ×	✓ ✓ X X × ✓ ✓ ✓ ✓ ✓ X	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	X X X X X	Medium N/A N/A Medium N/A Medium Medium Medium	Low Low Low Low Unlikely Unlikely Low Unlikely	Moderate N/A N/A Moderate N/A Low Moderate Low N/A
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors         Ingestion of soil/dust outdoors         Inhalation of particles (dust / soil) indoor and outdoor         Inhalation of vapours – outdoor         Inhalation of vapours - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors	0 1 0 1 1 1 1 1	$\begin{array}{c c} & \checkmark \\ & \land \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \checkmark \\ & \land \\ & \checkmark \\ & \checkmark \\ & \land \\ & \land \\ & \checkmark \\ & \land \\ \\ & \land \\ \\ \\ \\$		x √ √ × × × × × × √ × × √ × × √ ×	× × ✓ ✓ ✓ ×	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	X X X X X	N/A N/A Medium N/A Medium Medium Medium	Low Low Unlikely Unlikely Low Unlikely	N/A N/A Moderate N/A Low Moderate Low N/A
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors Ingestion of soil/dust outdoors Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours – outdoor Inhalation of vapours – outdoor Inhalation of vapours - indoor Dermal absorption via direct contact with soil Dermal absorption via waters (swimming / showering) Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	0 1 0 1 1 1 1 1	√           √		x √ √ × × × × × × √ × × √ × × √ ×	× × ✓ ✓ ✓ ×	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	X X X X	N/A Medium N/A Medium Medium Medium	Low Low Unlikely Unlikely Low Unlikely	N/A Moderate N/A Low Moderate Low N/A
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of water / sediments when swimming Ingestion of soil/dust indoors Ingestion of soil/dust outdoors Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours – outdoor Inhalation of vapours - indoor Dermal absorption via direct contact with soil Dermal absorption via waters (swimming / showering) Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	1 0 1 1 1 1	√           √		x √ √ × × × × × × √ × × √ × × √ ×	x √ √ √ x	✓ ✓ ✓ ✓ ✓ ✓ ✓ × × ✓	x x	Medium N/A Medium Medium Medium	Low Unlikely Unlikely Low Unlikely	Moderate N/A Low Moderate Low N/A
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust indoors Ingestion of soil/dust outdoors Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours – outdoor Inhalation of vapours - indoor Dermal absorption via direct contact with soil Dermal absorption via waters (swimming / showering) Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	1 1 1 1	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		✓ ✓ ✓ ✓ ✓ ✓ × × ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ×	✓ ✓ ✓ ✓ × × ✓	x	N/A Medium Medium Medium	Unlikely Unlikely Low Unlikely	N/A Low Moderate Low N/A
On-Site Future User4Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust outdoors Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours – outdoor Inhalation of vapours - indoor Dermal absorption via direct contact with soil Dermal absorption via waters (swimming / showering) Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	1 1 1 1	√           √		× ✓ ✓ ✓	x	✓ ✓ ✓ × × ✓	~	Medium Medium Medium	Unlikely Low Unlikely	Low Moderate Low N/A
UserHuman Health - NeighboursFuman Health - Construction/ Maintenance WorkersGroundwater (Shallow)Groundwater (Deep)1Surface Water3	Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours – outdoor Inhalation of vapours - indoor Dermal absorption via direct contact with soil Dermal absorption via waters (swimming / showering) Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	1 1 1 0 1 1 1 1 1 1 1 1			× ✓ ✓ ✓	x	✓ ✓ X ✓	x x √ √	Medium Medium	Low Unlikely	Moderate Low N/A
Human Health - Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of vapours – outdoor         Inhalation of vapours - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors	1 1 0 1 1 1 1 1 1 1 1			× ✓ ✓ ✓	x	× × × √	× ✓ ✓	Medium	Unlikely	Low N/A
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of vapours - indoor         Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors	1 0 1 1 1 1 1 1 1			× ✓ ✓ ✓		× × √	✓ ✓		,	N/A
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Dermal absorption via direct contact with soil         Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors	0 1 1 1 1 1 1 1 1		× √ √ √		×	× √	<b>v</b>	IN/A	Uniikeiv	
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Dermal absorption via waters (swimming / showering)         Ingestion of fruit or vegetable leaf or roots         Ingestion of contaminated drinking water         Ingestion of water / sediments when swimming         Ingestion of soil/dust indoors	1 1 1 1 1 1 1				✓ ✓	v	x	Medium	Unlikely	Low
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of fruit or vegetable leaf or roots Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	1 1 1 1 1			✓ ✓	V		x	Medium	Low	Moderate
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of contaminated drinking water Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	1 1 1 1		√ √	<b>v</b>	~		x	Severe	Unlikely	Low
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of water / sediments when swimming Ingestion of soil/dust indoors	1	✓ ✓	v	v v	X X		~	Severe	Unlikely	Low
Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust indoors	1	v		x			x x	Severe	Low	Moderate
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	5			· · · ·	× ./	X		x	Severe	Unlikely	Low
Neighbours5Neighbours5Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust outdoors	1	V /		V /		/	×	Severe	Unlikely	Low
Human Health - Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of particles (dust / soil) indoor and outdoor	1	V /	· ·	V /		<b>v</b>	×	Severe	Unlikely	Low
Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of vapours – outdoor	1	V /	x	v	× ×	v	<b>^</b>	Severe	Unlikely	Low
Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of vapours - indoor	1	V /	×	x	× ×	×	V /	Severe	Unlikely	Low
Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Dermal absorption via direct contact with soil	1		×	× _/	×		v v	Severe	Unlikely	Low
Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Dermal absorption via waters (swimming / showering)	1		↓ ↓	↓ ↓	√	↓ ↓	×	Severe	Low	Moderate
Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust indoors	1			· ·	 ✓	· √	x	Medium	Likely	High
Construction/ Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Ingestion of soil/dust outdoors	1		· · ·	· ·		· √	x	Medium	Likely	High
Maintenance Workers4Groundwater (Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of particles (dust / soil) outdoor	1		· · ·	· · ·		, ,	x	Medium	Likely	High
WorkersGroundwater (Shallow)Groundwater (Deep)1Surface Water3	Inhalation of vapours – outdoor	1	· ·	x	x	x	x	$\checkmark$	Medium	Low	Moderate
(Shallow)2Groundwater (Deep)1Surface Water3	Inhalation of vapours - indoor	0		X	x	X	x		N/A	Low	N/A
(Shallow)2Groundwater (Deep)1Surface Water3	Dermal absorption via direct contact with soil	1		× ✓		×	× √	x	Medium	Likely	High
(Shallow)2Groundwater (Deep)1Surface Water3	Leaching	1			· ·	x	· ·	x	Mild	High	Moderate
Groundwater (Deep) 1 Surface Water 3	Migration via natural or anthropogenic	1		· · ·	· ·	x	· √	x	Mild	High	Moderate
(Deep) 1 Surface Water 3	Leaching	1	, ,	· · ·	· ·	x	√	x	Minor	Unlikely	Very Low
Surface Water 3	Migration via natural or anthropogenic	1	· ·		· ·	x	 √	x	Minor	Unlikely	Very Low
	Direct runoff or discharges from pipes	1	· ·			X	 ✓	x	Medium	Low	Moderate
	Indirect via recharge from groundwater (hydraulic flow)	1		· · ·	· · ·		√	x	Medium	Low	Moderate
	Deposition of wind blown dust	1		✓ ✓	$\checkmark$	✓	$\checkmark$	x	Medium	Low	Moderate
	Direct contact	1	✓			x	x	X	Minor	Unlikely	Very Low
Property - 1 Buildings	Explosion due to gas migration via natural / anthropogenic	1	✓ ✓	x	x	x	x	√	Minor	Unlikely	Very Low
		1	√	√	√	$\checkmark$	$\checkmark$	x	Mild	Low	Low
Ecological	Direct deposition of particles / dust - wind blown or flood	1	√	√	√	x	$\checkmark$	x	Mild	Low	Low
Ecological 2 Systems	Direct deposition of particles / dust - wind blown or flood Indirect - through watering		√	√	✓	$\checkmark$	$\checkmark$	$\checkmark$	Mild	Low	Low
- ,	Indirect - through watering			/	/	/	/				
	Indirect - through watering Inhalation of gases/vapours or particulates/dust by animals	1		V /	✓ ✓	V /	V /	X	Mild	Low	Low
Drenette	Indirect - through watering Inhalation of gases/vapours or particulates/dust by animals Ingestion of of vegetation / water / soil by animals	1		1 V		v	V /	X	Mild Mild	Low	Low
Property - 2	Indirect - through watering Inhalation of gases/vapours or particulates/dust by animals Ingestion of of vegetation / water / soil by animals Direct (including deposition via wind or flood)	1 1 1		,				X	NIIIO	Low	Low
Animal/Crop	Indirect - through watering Inhalation of gases/vapours or particulates/dust by animals Ingestion of of vegetation / water / soil by animals	1 1 1 1			$\checkmark$	X (	V /	<u>ا</u>	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

	Client			
Stantec	Oxford City Council	ТАВ		ootpath Upgrad
Caversham Bridge House, Waterman Place, Rea	ading, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499	HAZARD CLASSIFICATION	4	THE POTENTIAL asbestos, permai

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

	Date	07/07/2021
ade and Oxpens Footbridge, Osney, Oxford	A3 Scale	NTS
	Drawn By	az
	Checked By	
TE POLLUTANT LINKAGES AND RISK ESTIMATION		
L CONTAMINANTS OF CONCERN ARE :- EPH & Solvents, PAHs, inorganic and metals, anent gases		

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
		Ingestion of fruit or vegetable leaf or roots	0	✓	✓	✓	x	✓	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	<ul> <li>✓</li> </ul>	x	x	✓	x	N/A	Unlikely	N/A
		Ingestion of water / sediments when swimming	1	1	√	√	√	√	x	Medium	Low	Moderate
Human Health -		Ingestion of soil/dust indoors	0	1	<b>√</b>	1	<u> </u>	1	x	N/A	Unlikely	N/A Moderate
On-Site Current	4	Ingestion of soil/dust outdoors Inhalation of particles (dust / soil) indoor and outdoor	1		✓ ✓		<u> </u>	✓ ✓	x x	Medium Medium	Low Low	Moderate
Users		Inhalation of vapours/gases – outdoor	1	- V - J	x	×	x	x	× ✓	Medium	Low	Moderate
		Inhalation of vapours/gases - indoor	0	1	×	×	x	×	, ,	N/A	Unlikely	N/A
		Dermal absorption via direct contact with soil	1	1	√	√	1	√	x	Medium	Low	Moderate
		Dermal absorption via waters (swimming / showering)	1	√	√	√	√	√	x	Medium	Low	Moderate
		Ingestion of fruit or vegetable leaf or roots	0	✓	<ul> <li>✓</li> </ul>	✓	x	<ul> <li>Image: A set of the set of the</li></ul>	x	N/A	Low	N/A
		Ingestion of contaminated drinking water	0	1	✓	x	x	✓	x	N/A	Low	N/A
		Ingestion of water / sediments when swimming	1	1	1	x	x	1	x	Medium	Low	Moderate
Human Health		Ingestion of soil/dust indoors Ingestion of soil/dust outdoors	0			✓ ✓	<u> </u>		x	N/A Medium	Unlikely Unlikely	N/A Low
On-Site Future	4	-	1	↓ ↓		√ √	 ✓	↓ ↓	x	Medium	Low	Moderate
User		Inhalation of particles (dust / soil) indoor and outdoor Inhalation of vapours – outdoor	1	 	x	x	x	x	× ✓	Medium	Unlikely	Low
		Inhalation of vapours - indoor	0	× 	×	×	x	x	× ×	N/A	Unlikely	N/A
		Dermal absorption via direct contact with soil	1	1	Ŷ	v v	- V	Â.	x	Medium	Unlikely	Low
		Dermal absorption via waters (swimming / showering)	1	1	1	1	1	1	x	Medium	Low	Moderate
		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	,		✓	1	1	x	Medium	Unlikely	Low
Human Health - Neighbours	5	Ingestion of soil/dust outdoors	1		✓ ✓	1	<u>√</u> √	✓ ✓	x	Medium Medium	Unlikely Unlikely	Low Low
Neighbours		Inhalation of particles (dust / soil) indoor and outdoor	1	~	√ ×	√ x	X	√ x	x V	Medium	Unlikely	Low
		Inhalation of vapours – outdoor Inhalation of vapours - indoor	1	 	x	x	x	x	v 	Medium	Unlikely	Low
		Dermal absorption via direct contact with soil	1	· ·	Ĵ	, V	, v	, V	x	Medium	Unlikely	Low
		Dermal absorption via waters (swimming / showering)	1	, v	, v	, ,	· · ·	, ,	x	Medium	Low	Moderate
		Ingestion of soil/dust indoors	1	1	1	1	1	1	x	Medium	Likely	High
Human Health -		Ingestion of soil/dust outdoors	1	√	√	√	√	√	x	Medium	Likely	High
Construction/	4	Inhalation of particles (dust / soil) outdoor	1	√	√	✓	√	✓	x	Medium	Likely	High
Maintenance		Inhalation of vapours – outdoor	1	1	x	x	x	x	1	Medium	Low	Moderate
Workers		Inhalation of vapours - indoor	0	1	x	×	x	×	✓	N/A	Low	N/A
Groundwater		Dermal absorption via direct contact with soil Leaching	1		1	1	<u> </u>	✓ ✓	x	Medium Mild	Likely Likely	High Moderate
(Shallow)	2	Migration via natural or anthropogenic	1	v v	V 1	v 	x	× 	x x	Mild	Likely	Moderate
Groundwater		Leaching	1	i v	, ,	×	x	, ,	x	Minor	Unlikely	Very Low
(Deep)	1	Migration via natural or anthropogenic	1	✓	√	1	x	1	x	Minor	Unlikely	Very Low
		Direct runoff or discharges from pipes	1	✓	√	√	1	√	x	Mild	Low	Low
Surface Water	3	Indirect via recharge from groundwater (hydraulic flow)	1	√	√	√	1	√	x	Mild	Low	Low
		Deposition of wind blown dust	1	1	1	1	√	√	x	Mild	Low	Low
Property -	1	Direct contact	1	1	√	√	x	x	x	Minor	Unlikely	Very Low
Buildings	1	Explosion due to gas migration via natural / anthropogenic	1	✓	x	x	x	x	1	Minor	Unlikely	Very Low
		Direct deposition of particles / dust - wind blown or flood	1	√	√	√	1	√	x	Mild	Low	Low
Ecological		Indirect - through watering	1	1	1	1	x	1	x	Mild	Low	Low
Systems	2	Inhalation of gases/vapours or particulates/dust by animals	1	✓	√	~	√	~	✓	Mild	Low	Low
		Ingestion of of vegetation / water / soil by animals	1	1	J	1	1	J	x	Mild	Low	Low
		Direct (including deposition via wind or flood)	1	↓ ↓	¥ 	~		<b>↓</b>	x	Mild	Low	Low
Property -	2	Indirect (through watering)	1	, ,			x		x	Mild	Low	Low
Animal/Crop	2	Inhalation of gas / vapour / particulates / dust by animals	1	✓	✓	✓	✓	✓	✓	Mild	Low	Low
		Ingestion of vegetation / water / soil by animals	1	✓	√	1	1	✓	x	Mild	Low	Low
The criteria for class	ssifying probabil	gnitude and probability of the possible consequences (what deg ity and consequence are set out in Tables 4 and 5 of the Stantec elements of the Pollutant Linkage are missing and therefore elim	c methodolog	night result and how yy.	r likely).					EPH = Extractable hydrocarbons PAHs = Poly Aromatic Hydrocart Note For Metals there is an Inhal Note for PAHs there are Inhalatic en Nachthalene	oons ation pathway if Mercu	ry is present ways for some
Sta	ntec	Client Oxford City Council		eg Naphthalene Footpath Upgrade and Oxpens Footbridge, Osney, Oxford [Northern Part] TABLE SUMMARISING ONSITE POLLUTANT LINKAGES AND RISK ESTIMATION								Date 07/07/2021 A3 Scale NTS Drawn By az Checked By
Caversham Bridge House	Caversham Bridge House, Waterman Place, Reading, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499				3					ochemicals, hydrocarbons	s (TPH & PAH),	

\\Cbh-vfil-001\cbh\Projects\330610555\3500 - Geotechnical\05 Reports etc\#R001 Phase 1\App g risk table\Table of Estimated Risk.xlsm