APPENDIX B

Land Science

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Site	Borehole Number
Dry Dock Buildings, Shoreham Port	BH1

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Shoreham Port Authority	LS5308
	Location	**Dates** 30/10/2020-03/11/2020	**Engineer**	**Sheet** 1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
						0.10	Asphalt (HARDSTANDING)			
						0.20				
0.30	D					(0.30)	MOT Type I (MADE GROUND)			
0.50	B					0.50				
						(0.40)	Dark greyish brown, clayey, gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, sub-angular to subrounded brick, asphalt and flints (MADE GROUND)			
						0.90				
1.20-1.65	SPT(C) N=4			2,1/1,1,1,1			Light greyish brown and dark brown, silty, gravelly CLAY. Gravels are fine to coarse, sub-angular to subrounded flints, clinker and brick (MADE GROUND)			
1.20-1.65	B									
1.75	D						Light brown, clayey, silty GRAVEL. Gravels are fine to coarse, sub-angular to subrounded brick and flints (MADE GROUND)			
2.00-2.45	SPT N=3			1,0/1,1,0,1		(2.10)				
2.00-2.45	D									
2.75	D									
3.00-3.45	SPT(C) N=0			30/		3.00	NO RECOVERY			
3.00-3.45	D						...Unknown obstruction at 3.00m			
						(1.70)				
4.00-4.45	SPT(C) N=0			30/						
4.00-4.45	D									
						4.70	Light greyish brown, clayey GRAVEL. Gravels are fine to coarse, sub-angular to subrounded flints (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
5.00-5.45	SPT(C) N=0			1,0/0,0,0,0						
5.00-5.45	D					(1.70)				
6.00	D									
						6.40	Dark grey GRAVEL. Gravels are fine to coarse, sub-angular to subrounded flints (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
6.50-6.95	SPT(C) N=8			1,1/2,2,2,2						
6.50-6.95	D					(1.10)				
						7.50	Weak, brittle, dark brown / black LIGNITE (LAMBETH GROUP)			
7.50	D									
8.00-8.45	SPT(C) N=56			10,12/12,15,14,15						
8.00-8.45	D									
							...occasional bands of dark grey silty, gravelly CLAY with rare pyrite from 8.50m. Gravels are fine to coarse, anuglar to subrounded flints			
9.00	D					(3.20)				
9.50-9.95	SPT N=43			5,9/7,12,12,12						
9.50-9.95	D									

Remarks
GROUNDWATER: Masked by addition of water to borehole
CASING: Cased to 7.00m
INSTALLATION: 50mm diameter HDPE standpipe to 4.00m; plain casing to 1.00m, slotted response zone from 1.00 to 4.00m
BACKFILL: Bentonite sealing pellets 0.00 to 1.00m and 4.00 to 12.00m. 10mm washing pea gravel filter pack 1.00 to 4.00m
SLOW PROGRESS: 4 hours of slow progress through hard Lignite
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole complete at 12.00m

Scale (approx)	Logged By
1:50	SW

Figure No. LS5308.BH1

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Site	Borehole Number
Dry Dock Buildings, Shoreham Port	BH1

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Shoreham Port Authority	LS5308
	Location	**Dates** 30/10/2020-03/11/2020	**Engineer**	**Sheet** 2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
10.50	D					10.70				
						(1.30)	Weak, structured, cream to off-white CHALK (Grade C) recovered as large cobbles in a silty matrix (WHITE CHALK SUBGROUP)			
11.55-12.00	SPT N=13			3,2/3,3,3,4						
11.55-12.00	D					12.00	Complete at 12.00m			

Remarks

Scale (approx)	Logged By
1:50	SW

Figure No. LS5308.BH1

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Land Science	Brighton | London | Bristol 0845 604 6494 www.landscience.co.uk	Site Dry Dock Buildings, Shoreham Port	Borehole Number BH2
Boring Method Cable Percussion	Casing Diameter	Ground Level (mOD)	Client Shoreham Port Authority	Job Number LS5308
	Location	Dates 29/10/2020-30/10/2020	Engineer	Sheet 1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						0.10	Asphalt (HARDSTANDING)		
0.30	D					0.20	MOT Type I (HARDSTANDING)		
0.50	B					(1.00)	Dark greyish brown, clayey, gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, sub-angular to subrounded brick, asphalt, and concrete (MADE GROUND)		
1.00	D					1.20			
1.20-1.65	SPT N=3			1,0/1,0,1,1			Light brown, clayey GRAVEL. Gravels are fine to coarse, sub-angular to rounded flints (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))		
1.20-1.65	D								
2.00-2.45	SPT N=1			0,0/1,0,0,0					
2.00-2.45	D								
2.75	D								
3.00-3.45	SPT N=1			0,0/1,0,0,0					
3.00-3.45	D					(4.30)			
3.75	D								
4.00-4.45	SPT N=1			0,0/1,0,0,0					
4.00-4.45	D								
4.75	D								
5.00-5.45	SPT N=1			0,0/1,0,0,0					
5.00-5.45	D								
						5.50	Dark grey / black GRAVEL. Gravels are medium to coarse, sub-angular to rounded flints (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))		
6.00-6.45	SPT N=10			1,3/2,3,2,3		(1.00)			
6.00-6.45	D								
						6.50			
						(0.20)	Weak, brittle, dark brown to black LIGNITE (LAMBETH GROUP)		
						6.70			
7.00	D					(0.70)	Dark grey to black gravelly CLAY. Gravels are fine to coarse, angular to subrounded flints (LAMBETH GROUP)		
						7.40			
7.50-7.95	SPT N=50			30/50			Weak, brittle, dark grey to black LIGNITE (LAMBETH GROUP)		
7.50-7.95	D					(1.10)			
8.50	D					8.50	Dark grey, silty, gravelly CLAY with bands of lignite. Gravels are fine to coarse, sub-angular to subrounded flints (LAMBETH GROUP)		
9.00-9.45	SPT(C) N=55			7,11/13,13,15,14					
9.00-9.45	D					(2.30)			

Remarks
GROUNDWATER: Struck at 1.50m. Additional strikes masked by addition of water to borehole
CASING: Cased to 7.00m
INSTALLATION: No installation
BACKFILL: Backfilled with bentonite sealing pellets
SLOW PROGRESS: 1 hour of slow progress through hard Lignite
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole complete at 12.00m

Scale (approx)	Logged By
1:50	SW

Figure No.
LS5308.BH2

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Site	Borehole Number
Dry Dock Buildings, Shoreham Port	BH2

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Shoreham Port Authority	LS5308
	Location	**Dates** 29/10/2020-30/10/2020	**Engineer**	**Sheet** 2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00	D								
10.50-10.95	SPT(C) N=29			6,8/10,7,6,6					
10.50-10.95	D					10.80			
						(1.20)	Weak, structured, cream to off-white CHALK (Grade C) recovered as large cobbles in a silty matrix (WHITE CHALK SUBGROUP)		
11.55-12.00	SPT(C) N=21			2,4/4,5,6,6					
11.55-12.00	D					12.00			
							Complete at 12.00m		

Remarks

Scale (approx)	Logged By
1:50	SW

Figure No. LS5308.BH2

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Land Science	Brighton | London | Bristol 0845 604 6494 www.landscience.co.uk	Site Dry Dock Buildings, Shoreham Port	Number DS1
Machine : Archway-Dart **Method :** Drive-in Windowless Sampler	**Dimensions**	**Ground Level (mOD)**	**Client** Shoreham Port Authority	**Job Number** LS5308
	Location	**Dates** 27/10/2020	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					0.05	Asphalt (HARDSTANDING)			
0.30	E		PID = 0.1ppm		(0.65)	Brown gravelly SAND. Gravels are fine to coarse, flints and asphalt fragments. Sand is fine to medium. (MADE GROUND)			
0.80	D		PID = 0.1ppm		0.70 (0.90)	Black, brown and grey gravelly CLAY. Gravels are fine to medium, sub-angular to subrounded flints and brick. (MADE GROUND)			
1.50	D		PID = 0.0ppm		1.60 (0.50)	Brown and grey gravelly CLAY. Gravels are fine to medium, sub-angular to subrounded flints. (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
2.00	D		PID = 0.1ppm		2.10 (0.30)	Brown gravelly SAND. Gravels are fine to medium flints. (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
2.50	D		PID = 0.1ppm		2.40	Black, brown and grey gravelly CLAY. Gravels are fine to medium, sub-angular to subrounded flints. (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
3.00	D		PID = 0.0ppm		(1.60)				
3.50	D		PID = 0.2ppm						
4.00	D		PID = 0.1ppm		4.00 (1.00)	NO SAMPLE RECOVERY			
					5.00				

Remarks
GROUNDWATER: Standing at 2.67m
CASING: No casing used
INSTALLATION: 50mm diameter HDPE standpipe to 1.50m; plain casing to 0.50m, slotted response zone 0.50m to 1.50m.
BACKFILL: Bentonite sealing pellets 1.50-5.00m, 0.00-0.50m. 10mm washed pea gravel filter pack 0.50-1.50m.
SLOW PROGRESS: None.
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole complete at 5.00m bgl

Scale (approx)	Logged By
1:25	SW

Figure No.
LS5308.DS01

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Land Science	Brighton | London | Bristol 0845 604 6494 www.landscience.co.uk	Site Dry Dock Buildings, Shoreham Port	Number DS2
Machine : Archway-Dart **Method :** Drive-in Windowless Sampler	**Dimensions**	**Ground Level (mOD)**	**Client** Shoreham Port Authority	**Job Number** LS5308
	Location	**Dates** 27/10/2020	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.08) 0.08	Asphalt (HARDSTANDING)		
0.20	E		PID = 0.1ppm			Brown silty sandy GRAVEL. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded brick, flint and chalk. (MADE GROUND) ... wirth concrete fragments to 0.30m bgl ... becoming clayey from 0.30m bgl		
0.50	E		PID = 0.1ppm					
1.00	D		PID = 0.1ppm					
1.50	D		PID = 0.1ppm		(2.82)	... black gravel lense between 1.80 and 2.00m bgl		
2.00	D		PID = 0.1ppm					
2.50	D		PID = 0.2ppm					
					2.90	... brick and concrete conglomerate at 2.85m bgl		
3.00	D		PID = 0.1ppm			Grey gravelly CLAY. Gravels are fine to coarse flint and putty chalk. (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))		
					(2.10)			
					5.00			

Remarks
GROUNDWATER: Standing at 2.40m bgl
CASING: No casing used
INSTALLATION: No installation
BACKFILL: Backfilled with arisings
SLOW PROGRESS: None
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole cpmplete at 5.00m, collapse back to 2.95m bgl

Scale (approx)	Logged By
1:25	SW

Figure No.
LS5308.DS02

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Land Science	Brighton | London | Bristol 0845 604 6494 www.landscience.co.uk	Site Dry Dock Buildings, Shoreham Port	Number DS3
Machine : Archway-Dart **Method :** Drive-in Windowless Sampler	**Dimensions**	**Ground Level (mOD)**	**Client** Shoreham Port Authority	**Job Number** LS5308
	Location	**Dates** 27/10/2020	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.08) 0.08	Asphalt (HARDSTANDING)			
0.20	E		PID = 0.0ppm			Greyish brown clayey, gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded flints concrete and brick. (MADE GROUND)			
0.50	E		PID = 0.1ppm		(1.32)				
1.00	D		PID = 5.6ppm			... with wood fragments between 1.10 to 1.40m bgl			
					1.40				
1.50	D		PID = 0.1ppm		(0.40)	Brown very clayey GRAVEL. Gravels are fine to coarse, subangular to rounded flints and clinker. (MADE GROUND)			
					1.80 1.85 1.90	Yellowish white reworked CHALK, recovered as a silty putty. (MADE GROUND) Red brick (MADE GROUND)			
2.00	D		PID = 0.2ppm			Brownish grey clayey GRAVEL, comprising flint and chalk gravel. (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
2.50	D		PID = 0.1ppm		(1.90)				
3.00	D		PID = 0.1ppm						
3.50	D		PID = 0.0ppm						
					3.80				
4.00	D		PID = 0.0ppm		(0.60)	Orangish brown clayey GRAVEL, comprising flint gravels. (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
					4.40				
4.50	D		PID = 0.0ppm		(0.40)	Orange sandy GRAVEL. Sand is fine to medium. Gravels are rounded flints. (BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED))			
					4.80				
5.00	D		PID = 0.1ppm		(0.20) 5.00	Weak, brittle, dark brown and black LIGNITE (LAMBETH GROUP)			

Remarks
GROUNDWATER: Standing at 2.71m
CASING: No casing used
INSTALLATION: 50mm diameter HDPE standpipe to 5.00m; plain casing to 3.00m, slotted response zone 3.00m to 5.00m.
BACKFILL: Bentonite sealing pellets 0.00-3.00m. 10mm washed pea gravel filter pack 3.00-5.00m.
SLOW PROGRESS: None.
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole complete at 5.00m

Scale (approx)	Logged By
1:25	SW

Figure No.
LS5308.DS03

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Land Science	Brighton | London | Bristol 0845 604 6494 www.landscience.co.uk	Site Dry Dock Buildings, Shoreham Port	Number DS4
Machine : Archway-Dart Method : Drive-in Windowless Sampler	Dimensions	Ground Level (mOD)	Client Shoreham Port Authority Job Number LS5308
	Location	Dates 27/10/2020	Engineer Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	E		PID = 0.1ppm		(0.30) 0.30	Dark greyish brown black gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangaular to subrounded flints and brick, with wood fragments. (MADE GROUND)		
0.50	E		PID = 0.1ppm			Brown gravelly, sandy CLAY. Sand is fine. Gravels are fine to coarse, subangular to rounded flints, with rare rootlets. (MADE GROUND)		
1.00	D		PID = 0.2ppm		(1.80)			
1.50	D		PID = 0.3ppm					
2.00	D		PID = 0.2ppm		2.10	Very soft grey gravelly CLAY, with wood fragments. (MADE GROUND)		
2.50	D		PID = 0.7ppm		(0.70)			
2.80	D		PID = 0.1ppm		2.80	Refusal at 2.80m		

Remarks
GROUNDWATER: Standing at 0.40m
CASING: No casing used
INSTALLATION: No installation
BACKFILL: Backfilled with arisings
SLOW PROGRESS: None
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole refused at 2.80m on hard materal, presumed concrete

Scale (approx)	Logged By
1:25	SW

Figure No.
LS5308.DS04

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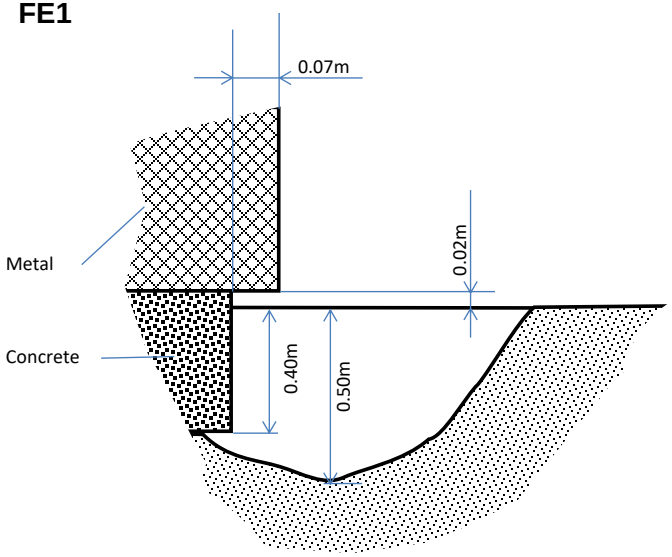
FE1



0.0-0.05m - Tarmacadam

0.05-0.50m - Orangey brown, gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded flints, tarmac.
... Rebar found at 0.35m

TITLE:	Foundation Exposures	**REF:**	LS5308	**PREPARED:**	SW
PROJECT:	Dry Dock Buildings, Shoreham Port	**VERSION:**	v1	**CHECKED:**	TK
CLIENT:	Shoreham Port Authority	**SHEET:**	1 of 2	**DATE:**	02/11/2020

Land Science

UNIT 10, 19 ALBERT DRIVE, BURGESS HILL, RH15 9TN
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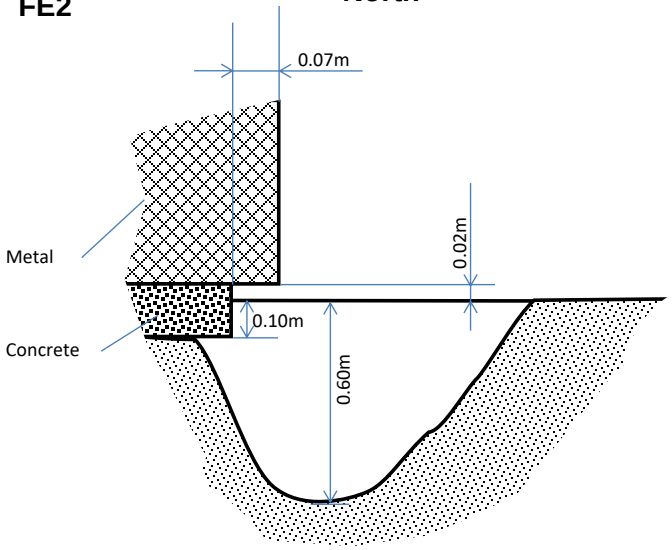
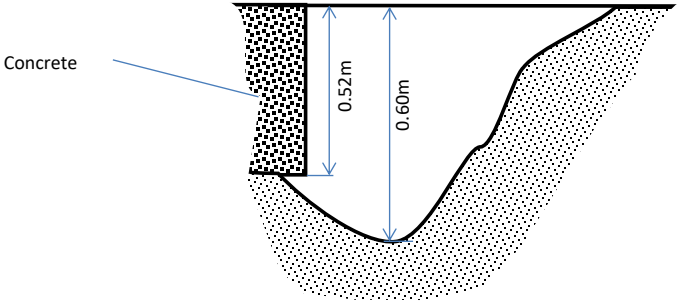
FE2

< - North



<- West



0.0-0.08m - Tarmacadam

0.05-0.60m - Greyish brown clayey, sandy GRAVEL. Sand is fine to medium. Gravels are fine to coarse, subangular to rounded flints, asphalt and brick

TITLE:	Foundation Exposures	**REF:**	LS5308	**PREPARED:**	SW
PROJECT:	Dry Dock Buildings, Shoreham Port	**VERSION:**	v1	**CHECKED:**	TK
CLIENT:	Shoreham Port Authority	**SHEET:**	2 of 2	**DATE:**	02/11/2020

Land Science

UNIT 10, 19 ALBERT DRIVE, BURGESS HILL, RH15 9TN
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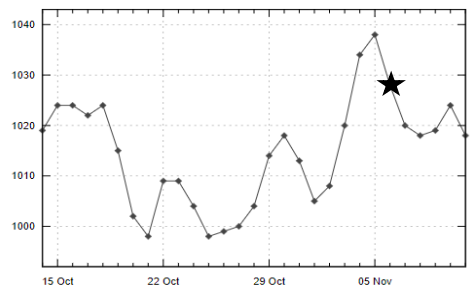
APPENDIX C

GROUND GAS AND GROUNDWATER MONITORING

Project:	Dry Dock Building, Shoreham	**Ref:**	LS5308
Date:	06/11/2020	**Visit:**	1 of 4
Engineer:	AS	**Check:**	TK
Weather:	Clear	**Page:**	1 of 1
Atmospheric Pressure		**before:**	1032mB
		after:	1029mB
Published pressure trend:		Fluctuating high pressure. (Brighton)	
Remarks:	Equipment used: GFX 430, Phocheck PID, Dipmeter		



Position	Flow (l/hr)		Common Gases (%)				VOC's (ppm)	Groundwater (m)				Remarks
	High	Low	Time	CO2	CH4	O2		LNAPL	Water	DNAPL	Base	
Calibration Check	0.0	0.0	15s	0.0	0.0	20.0	0.0	-	-	-	-	Calibration check passed
			30s	0.0	0.0	20.0						
			60s	0.0	0.0	20.0						
BH1	-6.2	0.0	15s	0.0	0.0	20.1	0.2	-	1.24	-	4.80	CO: 81ppm
			30s	0.0	0.0	20.0						
			60s	0.0	0.0	18.6						
			120s	0.0	0.0	18.3						
			180s	0.0	0.0	18.3						
			240s	0.0	0.0	18.3						
			300s	0.0	0.0	18.2						
DS1	0.0	0.0	15s	0.4	0.0	18.7	0.0	-	wet at base	-	1.51	
			30s	0.4	0.0	18.6						
			60s	0.4	0.0	18.6						
			120s	0.4	0.0	18.5						
			180s	0.4	0.0	18.5						
			240s	0.4	0.0	18.5						
			300s	0.4	0.0	18.5						
DS3	0.0	0.0	15s	0.0	0.0	19.5	0.0	-	0.97	-	3.87	Clayey sand at base
			30s	0.0	0.0	19.8						
			60s	0.0	0.0	19.8						
			120s	0.0	0.0	19.8						
			180s	0.0	0.0	19.8						
			240s	0.0	0.0	19.9						
			300s	0.0	0.0	19.9						
			15s					-		-		
			30s									
			60s									
			120s									
			180s									
			240s									
			300s									
			15s					-		-		
			30s									
			60s									
			120s									
			180s									
			240s									
			300s									
Calibration Check	0.0	0.0	15s	0.0	0.0	20.1	0.0	-	-	-	-	Calibration check passed
			30s	0.0	0.0	20.0						
			60s	0.0	0.0	20.0						

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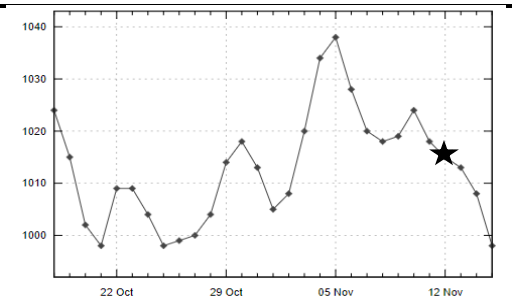
GROUND GAS AND GROUNDWATER MONITORING

Project:	Dry Dock Building, Shoreham	**Ref:**	LS5308
Date:	12/11/2020	**Visit:**	2 of 4
Engineer:	WF	**Check:**	TK
Weather:	Clear	**Page:**	1 of 1
Atmospheric Pressure		**before:**	1018mB
		after:	1017mB
Published pressure trend:		Fluctuating high pressure. (Brighton)	
Remarks:	Equipment used: GFX 430, Phocheck PID, Dipmeter		



Position	Flow (l/hr)		Common Gases (%)				VOC's (ppm)	Groundwater (m)				Remarks
	High	Low	Time	CO2	CH4	O2		LNAPL	Water	DNAPL	Base	
Calibration Check	0.0	0.0	15s	0.0	0.0	19.9	0.0	-	-	-	-	Calibration check passed
			30s	0.0	0.0	19.9						
			60s	0.0	0.0	20.0						
BH1	0.0	0.0	15s	0.0	0.0	19.8	0.1	-	1.34	-	4.75	GW sample taken
			30s	0.0	0.0	19.8						
			60s	0.0	0.0	19.9						
			120s	0.0	0.0	19.8						
			180s	0.0	0.0	19.9						
			240s	0.0	0.0	19.9						
			300s	0.0	0.0	19.9						
DS1	0.0	0.0	15s	0.1	0.0	19.2	0.0	-	0.77	-	1.47	GW sample taken
			30s	0.2	0.0	18.8						
			60s	0.2	0.0	18.7						
			120s	0.2	0.0	18.6						
			180s	0.2	0.0	18.6						
			240s	0.2	0.0	18.6						
			300s	0.2	0.0	18.6						
DS3	0.0	0.0	15s	0.0	0.0	19.8	0.1	-	1.08	-	3.78	GW sample taken
			30s	0.0	0.0	19.5						
			60s	0.0	0.0	19.5						
			120s	0.0	0.0	19.5						
			180s	0.0	0.0	19.4						
			240s	0.0	0.0	19.3						
			300s	0.0	0.0	19.3						
			15s					-		-		
			30s									
			60s									
			120s									
			180s									
			240s									
			300s									
			15s					-		-		
			30s									
			60s									
			120s									
			180s									
			240s									
			300s									
Calibration Check	0.0	0.0	15s	0.0	0.0	20.1	0.0	-	-	-	-	Calibration check passed
			30s	0.0	0.0	20.0						
			60s	0.0	0.0	20.0						

Land Science

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APPENDIX D

Land Science

SUMMARY OF MOISTURE CONTENT AND ATTERBERG LIMIT DETERMINATIONS

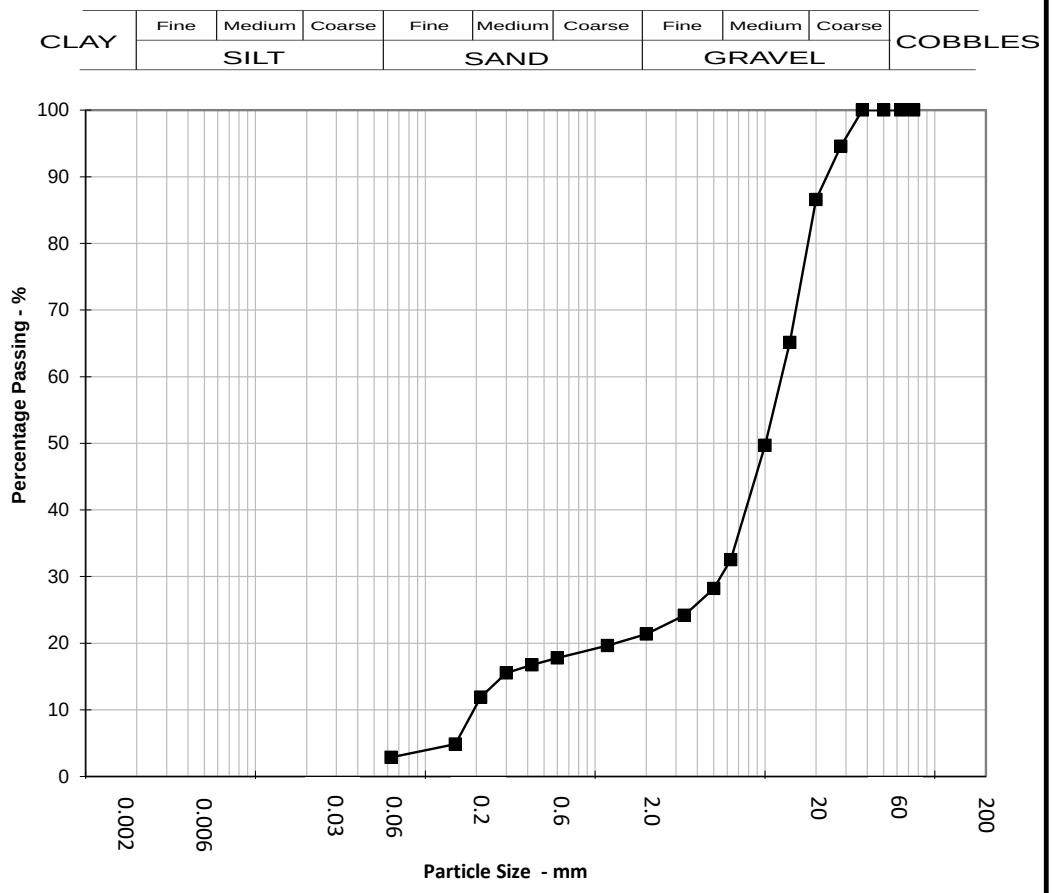
Site Name:	Dry Dock Buildings	**Samples Received:**	30/10/2020
Reference:	LS5308	**Reported:**	10/11/2020

Position	Depth m	Sample Description	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Passing 425µm %	Modified PI %
DS01	3.50	Brown and grey, sandy, gravelly, clayey, SILT	21.4	22.6	13.0	9.5	52.0	5.0
DS03	3.10	Brown and grey, sandy, gravelly, clayey, SILT	20.5	28.5	15.8	12.7	49.0	6.2
DS04	1.50	Dark brown, gravelly, CLAY	19.8	39.6	20.5	19.0	48.0	9.1
DS04	2.50	Dark grey, gravelly, CLAY	34.1	49.9	26.2	23.7	64.0	15.2

SUMMARY OF PARTICLE SIZE DISTRIBUTION ANALYSIS			
Site Name:	Dry Dock Buildings	**Samples Received:**	30/10/2020
Reference:	LS5308	**Reported:**	10/11/2020

Sample Data		Sample Description
Position	DS03	Brown, slightly clayey, sandy, GRAVEL
Sample Ref	-	
Depth	4.50	

Sieve Analysis	
mm	**%**
125	
90	
75	100.0
63	100.0
50	100.0
37.5	100.0
28	94.6
20	86.6
14	65.1
10	49.7
6.3	32.5
5.0	28.2
3.35	24.2
2.0	21.4
1.18	19.6
0.60	17.8
0.425	16.8
0.30	15.5
0.212	11.9
0.150	4.9
0.063	2.9
0.020	
0.006	
0.002	



Sample Proportions		Grading Analysis	
Cobbles	0.0	D100	37.5
Gravel	78.6	D60	13
Sand	18.5	D10	0.19
Silt & Clay	2.9	Uniformity Coeff.	68.4
-		-	

BS 1377 : Part 2 : 1990 : Clause 9

Test Results relate only to the sample numbers shown above.

Prepared:
T Curtis
Checked:
E Toms

THE OLD POLICE STATION, JOBS LANE, SAYERS COMMON, WEST SUSSEX, BN6 9HE
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APPENDIX E

Tom Kistruck
Land Science
Unit 10
19 Albert Drive
Burgess Hill
West Sussex
RH15 9TN

e: Tom.Kistruck@landscience.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 20-39069

Project / Site name:	Dry Dock Buldings, Shoreham	**Samples received on:**	02/11/2020
Your job number:	LS5308	**Samples instructed on/ Analysis started on:**	02/11/2020
Your order number:		**Analysis completed by:**	12/11/2020
Report Issue Number:	1	**Report issued on:**	12/11/2020
Samples Analysed:	8 soil samples		

Signed: A. Czerwińska

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670952	1670953	1670954	1670955
Sample Reference				DS01	DS01	DS02	DS03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.80	0.50	0.50
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	4.8	24	12	13
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Detected	-	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	-	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.3	8	8.4	9.2
Total Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.47	0.28	0.31	0.27
Sulphide	mg/kg	1	MCERTS	1300	-	14	39
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.014	-	0.0085	0.0061

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.9	-	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	1.5	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	1.8	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	2.2	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	23	-	0.26	0.36
Anthracene	mg/kg	0.05	MCERTS	6.8	-	0.15	0.24
Fluoranthene	mg/kg	0.05	MCERTS	51	-	1.5	2.3
Pyrene	mg/kg	0.05	MCERTS	50	-	1.5	2.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	32	-	1.1	1.5
Chrysene	mg/kg	0.05	MCERTS	20	-	0.88	1.2
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	26	-	0.98	1.6
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	15	-	0.56	0.82
Benzo(a)pyrene	mg/kg	0.05	MCERTS	27	-	1.3	1.7
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	13	-	0.64	0.77
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.9	-	0.22	0.24
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	15	-	0.73	0.86
Coronene	mg/kg	0.05	NONE	5.1	-	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	294	-	9.7	14

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	-	17	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	220	-	60	65
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	3.3	-	0.69	0.61
Boron (water soluble)	mg/kg	0.2	MCERTS	4.8	-	3.3	7.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	-	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	-	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	-	13	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	52	-	27	19
Lead (aqua regia extractable)	mg/kg	1	MCERTS	53	-	56	49
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	-	22	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	1.1	1.1

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670952	1670953	1670954	1670955
Sample Reference				DS01	DS01	DS02	DS03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.80	0.50	0.50
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	63	-	29	31
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	490	-	110	43

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Lab Sample Number				1670952	1670953	1670954	1670955
Sample Reference				DS01	DS01	DS02	DS03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.80	0.50	0.50
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Monoaromatics & Oxygenates							
Benzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Petroleum Hydrocarbons							
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	2.1	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	13	-	7.5	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	26	-	18	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	95	-	71	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	140	-	96	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	10	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	130	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	200	-	16	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	340	-	20	-

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Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670952	1670953	1670954	1670955
Sample Reference				DS01	DS01	DS02	DS03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.80	0.50	0.50
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
VOCs							
Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670952	1670953	1670954	1670955
Sample Reference				DS01	DS01	DS02	DS03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.80	0.50	0.50
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670952	1670953	1670954	1670955
Sample Reference				DS01	DS01	DS02	DS03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.80	0.50	0.50
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
SVOCs							
Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	0.9	-	< 0.05	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	0.9	-	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	1.5	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	1.8	-	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	1.2	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	2.2	-	< 0.05	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	23	-	0.26	-
Anthracene	mg/kg	0.05	MCERTS	6.8	-	0.15	-
Carbazole	mg/kg	0.3	MCERTS	0.9	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	1.2	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	51	-	1.5	-
Pyrene	mg/kg	0.05	MCERTS	50	-	1.5	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	32	-	1.1	-
Chrysene	mg/kg	0.05	MCERTS	20	-	0.88	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	26	-	0.98	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	15	-	0.56	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	27	-	1.3	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	13	-	0.64	-

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670952	1670953	1670954	1670955
Sample Reference				DS01	DS01	DS02	DS03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.80	0.50	0.50
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.9	-	0.22	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	15	-	0.73	-

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670956	1670957	1670958	1670959
Sample Reference				DS03	DS04	DS04	BH02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.20	1.00	0.30
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	12	15	8.6
Total mass of sample received	kg	0.001	NONE	0.4	0.9	0.7	0.4
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Chrysotile	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	-	Detected	-	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	< 0.001	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	< 0.001	-	< 0.001
General Inorganics							
pH - Automated	pH Units	N/A	MCERTS	-	9.1	8.9	8
Total Cyanide	mg/kg	1	MCERTS	-	< 1	-	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.29	0.6	0.49
Sulphide	mg/kg	1	MCERTS	-	390	-	11
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	0.046	-	0.0051
Total Phenols							
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	-	< 1.0
Speciated PAHs							
Naphthalene	mg/kg	0.05	MCERTS	-	3.8	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	36	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	3.3	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	8.1	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	84	-	0.9
Anthracene	mg/kg	0.05	MCERTS	-	55	-	0.42
Fluoranthene	mg/kg	0.05	MCERTS	-	650	-	4.7
Pyrene	mg/kg	0.05	MCERTS	-	600	-	6.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	320	-	5.3
Chrysene	mg/kg	0.05	MCERTS	-	200	-	4
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	350	-	12
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	160	-	3.6
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	310	-	9.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	150	-	6.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	40	-	1.6
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	170	-	7.5
Coronene	mg/kg	0.05	NONE	-	44	-	1.8
Total PAH							
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	3180	-	63.4
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	15	-	38
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	320	-	290
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	4.2	-	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.9	-	2.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.7	-	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	< 1.2	-	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	18	-	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	66	-	310
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	190	-	280
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	15	-	38
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	-	< 1.0

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670956	1670957	1670958	1670959
Sample Reference				DS03	DS04	DS04	BH02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.20	1.00	0.30
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	58	-	45
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	290	-	350

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Analytical Report Number: 20-39069
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Lab Sample Number				1670956	1670957	1670958	1670959
Sample Reference				DS03	DS04	DS04	BH02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.20	1.00	0.30
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Monoaromatics & Oxygenates							
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Petroleum Hydrocarbons							
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	2.4	-	5
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	40	-	22
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	9.8	68	-	40
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	65	250	-	180
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	75	360	-	250
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	15	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	79	-	6.9
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	26	1400	-	31
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	87	1700	-	200
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	110	3200	-	240

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670956	1670957	1670958	1670959
Sample Reference				DS03	DS04	DS04	BH02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.20	1.00	0.30
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
VOCs							
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670956	1670957	1670958	1670959
Sample Reference				DS03	DS04	DS04	BH02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.20	1.00	0.30
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670956	1670957	1670958	1670959
Sample Reference				DS03	DS04	DS04	BH02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.20	1.00	0.30
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
SVOCs							
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	3.8	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	0.72	36	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	3.3	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	8.1	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	1.8	84	-	0.9
Anthracene	mg/kg	0.05	MCERTS	1.1	55	-	0.42
Carbazole	mg/kg	0.3	MCERTS	< 0.3	8.9	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	11	650	-	4.7
Pyrene	mg/kg	0.05	MCERTS	11	600	-	6.1
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	6.4	320	-	5.3
Chrysene	mg/kg	0.05	MCERTS	5	200	-	4
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	7	350	-	12
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	2.9	160	-	3.6
Benzo(a)pyrene	mg/kg	0.05	MCERTS	6.7	310	-	9.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	3.2	150	-	6.2

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Lab Sample Number				1670956	1670957	1670958	1670959
Sample Reference				DS03	DS04	DS04	BH02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.20	1.00	0.30
Date Sampled				27/10/2020	27/10/2020	27/10/2020	27/10/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.84	40	-	1.6
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.6	170	-	7.5

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number: 20-39069
Project / Site name: Dry Dock Buldings, Shoreham
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1670952	DS01	0.30	150	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**
1670955	DS03	0.50	126	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**
1670957	DS04	0.20	173	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**
1670959	BH02	0.30	159	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1670952	DS01	None Supplied	0.3	Brown clay and sand with gravel.
1670953	DS01	None Supplied	0.8	Brown clay and sand with gravel.
1670954	DS02	None Supplied	0.5	Brown clay and sand with gravel.
1670955	DS03	None Supplied	0.5	Brown clay and sand with gravel.
1670956	DS03	None Supplied	1	Brown clay and sand with gravel and vegetation.
1670957	DS04	None Supplied	0.2	Brown clay and sand with gravel.
1670958	DS04	None Supplied	1	Brown clay and sand with gravel.
1670959	BH02	None Supplied	0.3	Brown clay and sand with gravel.

Analytical Report Number : 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

Analytical Report Number : 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample Deviation Report

Analytical Report Number : 20-39069
Project / Site name: Dry Dock Buldings, Shoreham

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH02	None Supplied	S	1670959	c	Sulphide in soil	L010-PL	c
BH02	None Supplied	S	1670959	c	Total cyanide in soil	L080-PL	c
DS01	None Supplied	S	1670952	c	Sulphide in soil	L010-PL	c
DS01	None Supplied	S	1670952	c	Total cyanide in soil	L080-PL	c
DS02	None Supplied	S	1670954	c	Sulphide in soil	L010-PL	c
DS02	None Supplied	S	1670954	c	Total cyanide in soil	L080-PL	c
DS03	None Supplied	S	1670955	c	Sulphide in soil	L010-PL	c
DS03	None Supplied	S	1670955	c	Total cyanide in soil	L080-PL	c
DS04	None Supplied	S	1670957	c	Sulphide in soil	L010-PL	c
DS04	None Supplied	S	1670957	c	Total cyanide in soil	L080-PL	c

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Analytical Report Number : 20-39098

Project / Site name:	Dry Dock Building, Shoreham Port	**Samples received on:**	03/11/2020
Your job number:	LS5308	**Samples instructed on/ Analysis started on:**	03/11/2020
Your order number:		**Analysis completed by:**	12/11/2020
Report Issue Number:	1	**Report issued on:**	12/11/2020
Samples Analysed:	1 water sample		

Signed: Karolina Marek

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 20-39098
Project / Site name: Dry Dock Building, Shoreham Port

Lab Sample Number				1671109
Sample Reference				DS3
Sample Number				W1
Depth (m)				1.00
Date Sampled				03/11/2020
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
General Inorganics				
pH	pH Units	N/A	ISO 17025	7.8
Total Cyanide	µg/l	10	ISO 17025	< 10
Sulphate as SO4	µg/l	45	ISO 17025	2550000
Sulphide	µg/l	5	NONE	< 5.0
Total Organic Carbon (TOC)	mg/l	0.1	ISO 17025	1.58
Total Phenols				
Total Phenols (monohydric)	µg/l	10	ISO 17025	19
Speciated PAHs				
Naphthalene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01
Coronene	µg/l	0.01	NONE	< 0.01
Total PAH				
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2
Heavy Metals / Metalloids				
Boron (dissolved)	µg/l	10	ISO 17025	4100
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0
Arsenic (dissolved)	µg/l	0.15	ISO 17025	30.8
Barium (dissolved)	µg/l	0.06	ISO 17025	16
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.07
Chromium (dissolved)	µg/l	0.2	ISO 17025	7.9
Copper (dissolved)	µg/l	0.5	ISO 17025	170
Lead (dissolved)	µg/l	0.2	ISO 17025	0.3
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	6.8
Selenium (dissolved)	µg/l	0.6	ISO 17025	0.7
Vanadium (dissolved)	µg/l	0.2	ISO 17025	15
Zinc (dissolved)	µg/l	0.5	ISO 17025	7.1

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Analytical Report Number: 20-39098
Project / Site name: Dry Dock Building, Shoreham Port

Lab Sample Number				1671109
Sample Reference				DS3
Sample Number				W1
Depth (m)				1.00
Date Sampled				03/11/2020
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Monoaromatics & Oxygenates				
Benzene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0
Petroleum Hydrocarbons				
TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10

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Analytical Report Number: 20-39098
Project / Site name: Dry Dock Building, Shoreham Port

Lab Sample Number				1671109
Sample Reference				DS3
Sample Number				W1
Depth (m)				1.00
Date Sampled				03/11/2020
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
VOCs				
Chloromethane	µg/l	1	ISO 17025	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0

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Analytical Report Number: 20-39098
Project / Site name: Dry Dock Building, Shoreham Port

Lab Sample Number				1671109
Sample Reference				DS3
Sample Number				W1
Depth (m)				1.00
Date Sampled				03/11/2020
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0

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Analytical Report Number: 20-39098
Project / Site name: Dry Dock Building, Shoreham Port

Lab Sample Number				1671109
Sample Reference				DS3
Sample Number				W1
Depth (m)				1.00
Date Sampled				03/11/2020
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
SVOCs				
Aniline	µg/l	0.05	NONE	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01

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Analytical Report Number: 20-39098
Project / Site name: Dry Dock Building, Shoreham Port

Lab Sample Number				1671109
Sample Reference				DS3
Sample Number				W1
Depth (m)				1.00
Date Sampled				03/11/2020
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 20-39098
Project / Site name: Dry Dock Building, Shoreham Port

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Boron in water	Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	NONE
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L029-PL	W	NONE
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total organic carbon in water	Determination of dissolved organic carbon in water by TOC/DOC NDIR analyser. Accredited matrices: SW PW GW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.