

APPENDIX C

Exploratory Hole Records

Exploratory Hole ID:	Client: Lidl (UK) GmbH	OPUS JOYNES PIKE www.opusjoynespike.co.uk		
WS1A	Site: Travis Perkins Depot - North			
Job No:		Start Date:	End Date:	
J-BK093A		17/07/2008	17/07/2008	
Drilling Equipment/ Excavation Method: Tracked Window Sampling Rig.		Co-ords:		Backfill Date:
				17/07/2008
		Ground Level (mAOD):		Field Records:
		Logged:	Chkd:	Appr:
		CB	CR	AS

Strata Description	Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
MADE GROUND: Ashy gravelly brown grey sand. Gravel includes flint, brick and concrete.				D	0.10-0.40			
High plasticity very silty light green brown CLAY with soft consistency and occasional medium-coarse rounded gravel of red mudstone and grey flint.	0.40			D	0.40-0.70			
High plasticity light green brown CLAY with soft consistency and orange mottling.	0.70					N=5(C)		
Silty slightly clayey grey brown medium SAND with occasional medium-coarse rounded gravel of red mudstone and grey flint.	2.00			D	1.70-2.00			
Slightly clayey orange brown medium SAND with occasional fine-coarse angular to subangular gravel of flint.	2.40			D	2.10-2.40	N=5(C)		
				D	2.70-3.00	N=4(C)	2.50	
				D	3.70-4.00	N=5(C)		
White friable CHALK. (Recovered as medium to coarse angular to subangular gravel)	4.80					N=14(C)		
End of Exploratory Hole at 6.00 m	6.00					N=24(C)		

Remarks: 1. SPT 'N'-values have been corrected in accordance with BS EN ISO22476. 2. Groundwater observed at 2.50m.	Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading
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Exploratory Hole ID:	Client: Lidl (UK) GmbH	OPUS JOYNES PIKE www.opusjoynespike.co.uk		
WS2	Site: Travis Perkins Depot - North			
Job No:		Start Date:	End Date:	
J-BK093A		17/07/2008	17/07/2008	
Drilling Equipment/ Excavation Method:		Co-ords:	Backfill Date:	Field Records:
Tracked Window Sampling Rig.			17/07/2008	
Ground Level (mAOD):		Logged:	Chkd:	Appr:
		CB	CB	AS

Strata Description	Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
MADE GROUND: Gravel of flint and concrete.	0.30			D	0.30-0.55			
MADE GROUND: Gravelly brown grey black sand. Gravel includes flint, brick and concrete.	0.55							
MADE GROUND: Chalk cobbles.	0.65							
MADE GROUND: Brick cobbles.	0.75			D	0.75-1.00			
High plasticity very silty light green brown CLAY with soft consistency, orange mottling and occasional medium-coarse rounded gravel of red mudstone and grey flint. At 0.75m bgl: Grey staining.	1.00			D	1.50	N=5(C)		
High plasticity orange brown CLAY with soft consistency.	2.00					N=1(C)	2.00	▽
Silty yellow brown CLAY with chalk pebbles.	2.75							
White friable CHALK. (Recovered as medium to coarse angular to subangular gravel)				D	3.70-4.00	N=8(C)		
						N=11(C)		
End of Exploratory Hole at 5.00 m	5.00					N=30(C)		

Remarks: 1. SPT 'N'-values have been corrected in accordance with BS EN ISO22476. 2. Groundwater observed at 2.00m.	<table border="0" style="width:100%;"> <tr> <td style="vertical-align: top;"> Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample </td> <td style="vertical-align: top;"> Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading </td> </tr> </table>	Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading
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Exploratory Hole ID:	Client: Lidl (UK) GmbH	OPUS JOYNES PIKE www.opusjoynespike.co.uk		
WS3	Site: Travis Perkins Depot - North			
Job No:		Start Date:	End Date:	
J-BK093A		17/07/2008	17/07/2008	
Drilling Equipment/ Excavation Method: Tracked Window Sampling Rig.		Co-ords:		Backfill Date:
				17/07/2008
Ground Level (mAOD):		Logged:	Chkd:	Appr:
		CB	CB	AS

Strata Description	Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
MADE GROUND: Bituminous surfacing.	0.05		[Cross-hatch pattern]	D	0.10-0.40			[Cross-hatch pattern]
MADE GROUND: Ashy gravelly black sand. Gravel includes chert and possibly basalt with cobbles.	0.40		[Cross-hatch pattern]					[Cross-hatch pattern]
High plasticity very silty slightly sandy grey black CLAY with soft consistency and organic odour.	0.80		[Cross-hatch pattern]	D	0.80-1.20			[Cross-hatch pattern]
High plasticity light green brown CLAY with soft consistency, grey blue mottling, organic odour and occasional medium-coarse rounded gravel of red mudstone and grey flint. Mottling decreases with depth.			[Cross-hatch pattern]	D	1.70-2.00			[Cross-hatch pattern]
High plasticity brown CLAY with very soft consistency.	2.00		[Cross-hatch pattern]	D	2.40-2.80			[Cross-hatch pattern]
Between 2.40m and 3.00m bgl: Black staining/mottling.			[Cross-hatch pattern]	D	3.00-3.40		3.00	[Cross-hatch pattern]
Silty slightly clayey green brown medium SAND with occasional medium-coarse rounded gravel of red mudstone and grey flint.	3.00		[Cross-hatch pattern]	D	3.00-3.40			[Cross-hatch pattern]
Sandy brown CLAY.	3.20		[Cross-hatch pattern]					[Cross-hatch pattern]
Clayey yellow brown medium SAND with chalk pebbles.	3.40		[Cross-hatch pattern]	D	3.70-4.00			[Cross-hatch pattern]
White friable CHALK. (Recovered as medium to coarse angular to subangular gravel)	4.00		[Cross-hatch pattern]					[Cross-hatch pattern]
End of Exploratory Hole at 5.00 m	5.00		[Cross-hatch pattern]					[Cross-hatch pattern]

Remarks: 1. Groundwater observed at 3.00m.	Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading
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Exploratory Hole ID:	Client: Lidl (UK) GmbH	OPUS JOYNES PIKE www.opusjoynespike.co.uk			
WS4	Site: Travis Perkins Depot - North				
Job No:	J-BK093A	Start Date:	17/07/2008	End Date:	17/07/2008
Drilling Equipment/ Excavation Method: Tracked Window Sampling Rig.		Co-ords:		Backfill Date:	Field Records:
		Ground Level (mAOD):		Logged:	Chkd:
				CB	CB
				Appr:	AS

Strata Description	Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
CONCRETE. <i>HC</i>	0.15							
MADE GROUND: Brick and concrete cobbles. Between 0.15m and 0.30m: Significant diesel staining and odour.	0.30			D	0.30-0.65			
MADE GROUND: High plasticity slightly silty light green brown clay with soft consistency. Between 0.30m and 0.65m: Significant diesel staining and odour. <i>Free product present.</i>	0.65 0.75			D	0.75-1.00			
MADE GROUND: Slightly silty grey brown sand with fine-medium subrounded gravel of chalk.	1.30			D	1.30-1.60			
MADE GROUND: Clayey silty dark brown grey black sand with fine-medium subangular gravel of brick and flint.				D	1.40-1.70			
High plasticity light green brown CLAY with soft consistency, grey blue mottling, organic odour and occasional medium-coarse rounded gravel of red mudstone and grey flint. Mottling decreases with depth.	2.00			D	2.40-2.70		2.00	▽
High plasticity brown CLAY with very soft consistency. Between 2.70m and 3.65m: Black staining/mottling.				D	2.70-3.00			
Silty slight clayey grey brown medium SAND with occasional medium-coarse rounded gravel of red mudstone and grey flint.	3.65			D	3.70-4.00			
Clayey yellow brown medium SAND with chalk pebbles.	4.70							
End of Exploratory Hole at 5.00 m	5.00							

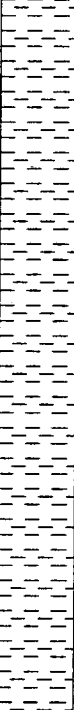
Remarks: 1. Groundwater observed at 2.00m.	Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading
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Exploratory Hole ID: WS5		Client: Lidl (UK) GmbH			OPUS JOYNES PIKE www.opusjoynespike.co.uk				
Job No: J-BK093A		Site: Travis Perkins Depot - North							
Drilling Equipment/ Excavation Method: Tracked Window Sampling Rig.		Co-ords:			Start Date: 17/07/2008		End Date: 17/07/2008		
		Ground Level (mAOD):			Backfill Date: 17/07/2008		Field Records:		
					Logged: CB		Chkd: CB		Appr: AS

Strata Description	Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
MADE GROUND: Bituminous surfacing.	0.05							
CONCRETE.	0.15							
MADE GROUND: Brick cobbles.	0.35 0.40			D	0.40-0.65			
MADE GROUND: Ashy gravelly grey brown sand. Gravel includes quartzite, chert and possibly basalt and mudstone.	0.65			D	0.95-1.20			
MADE GROUND: Chalk cobbles.				D	1.30-1.60			
MADE GROUND: Clayey silty dark brown grey black sand with fine-medium subrounded gravel of chalk and brick.	1.30							
High plasticity light green brown CLAY with soft consistency, grey blue mottling, organic odour and occasional medium-coarse rounded gravel of red mudstone and grey flint. Mottling decreases with depth.				D	2.40-2.70		2.00	▽
High plasticity brown CLAY with very soft consistency and black mottling.	2.60			D	2.70-3.00			
				D	3.40-3.70			
Silty slightly clayey green brown SAND with occasional medium-coarse rounded gravel of red mudstone and grey flint.	4.40							
Clayey yellow brown medium SAND with chalk pebbles.	4.90 5.00							
End of Exploratory Hole at 5.00 m								

Remarks: 1. Groundwater observed at 2.00m.	<table style="width:100%;"> <tr> <td style="width:50%;"> Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample </td> <td style="width:50%;"> Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading </td> </tr> </table>	Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading
Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading		
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Exploratory Hole ID:	Client: Lidl (UK) GmbH	OPUS JOYNES PIKE www.opusjoynespike.co.uk		
WS6	Site: Travis Perkins Depot - North			
Job No:		Start Date:	End Date:	
J-BK093A		17/07/2008	17/07/2008	
Drilling Equipment/ Excavation Method:		Co-ords:		Backfill Date:
Tracked Window Sampling Rig.				17/07/2008
		Ground Level (mAOD):		Field Records:
		Logged:	Chkd:	Appr:
		CB	CB	AS

Strata Description	Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details	
MADE GROUND: Bituminous surfacing.	0.05								
MADE GROUND: Ashy gravelly brown black sand. Gravel includes bitumen and concrete.	0.20				D	0.30-0.60			
MADE GROUND: Clayey silty dark brown grey black sand with fine-medium subrounded gravel of chalk, brick, chert and possibly basalt.	0.60				D	0.80-1.20			
MADE GROUND: Chalk cobbles.	0.80								
High plasticity light green brown CLAY with soft consistency, grey blue mottling, organic odour and occasional medium-coarse rounded gravel of red mudstone and grey flint. Mottling decreases with depth.									
					D	2.70-3.00			
					D	3.70-4.00			
					D	4.55-5.00			
Silty slightly clayey green brown medium SAND with occasional medium-coarse rounded gravel of red mudstone and grey flint.	4.55								
	4.90								
Clayey yellow brown medium SAND with chalk pebbles.	5.00								
End of Exploratory Hole at 5.00 m									

Remarks: 1. Groundwater observed at 2.00m.	Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading
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Exploratory Hole ID: WS7	Client: Lidl (UK) GmbH Site: Travis Perkins Depot - North	OPUS JOYNES PIKE www.opusjoynespike.co.uk	
Job No: J-BK093A		Start Date: 18/07/2008	End Date: 18/07/2008
Drilling Equipment/ Excavation Method: Tracked Window Sampling Rig.		Co-ords:	Backfill Date: 18/07/2008
		Ground Level (mAOD):	Field Records:
		Logged: CB	Chkd: CB
		Appr: AS	

Strata Description	Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
MADE GROUND: Bituminous surfacing.	0.05							
CONCRETE.	0.15							
MADE GROUND: Brick cobbles.	0.60			D001	0.60-0.90			
MADE GROUND: Brick cobbles within gravelly clayey grey brown sand. Gravel includes clinker, brick and concrete.	1.00					N=70(C)		
End of Exploratory Hole at 1.00 m								

Remarks: 1. SPT 'N'-values have been corrected in accordance with BS EN ISO22476. 2. No groundwater observed.	<table style="width:100%;"> <tr> <td style="width:50%;"> Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample </td> <td style="width:50%;"> Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading </td> </tr> </table>	Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading
Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample	Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading		
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Window Sample	Depth (mbgl)	Corrected N value	Lithology
1A	1.0	5	Clay
1A	2.0	5	Sand
1A	3.0	4	Sand
1A	4.0	5	Sand
1A	5.0	14	Chalk
1A	6.0	24	Chalk
2	1.0	5	Clay
2	2.0	1	Clay
2	3.0	8	Chalk
2	4.0	11	Chalk
2	5.0	30	Chalk
7	1.0	70	Made Ground
8	1.0	3	Made Ground
8	2.0	0	Clay
8	3.0	0	Clay
8	4.0	6	Clay
8	5.0	3	Sand

Pier Road, Littlehampton

