

APPENDIX 4 – Soakaway Results





GROUND INVESTIGATIONS IRELAND
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SA01

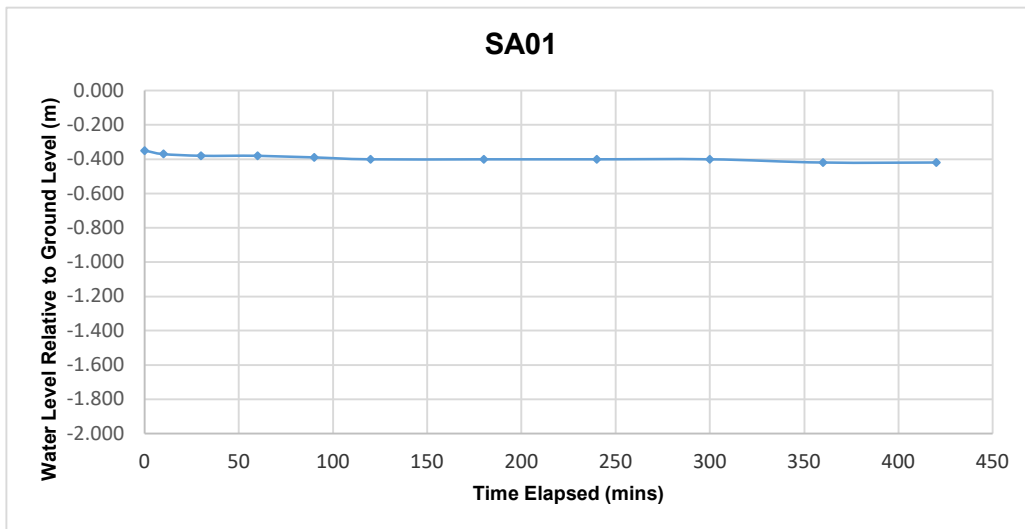
Soakaway Test to BRE Digest 365

Trial Pit Dimensions: 1.0m x 0.60m x 2.2m (L x W x D)

Date	Time	Water level (m bgl)
15/01/2026	0	-0.350
15/01/2026	10	-0.370
15/01/2026	30	-0.380
15/01/2026	60	-0.380
15/01/2026	90	-0.390
15/01/2026	120	-0.400
15/01/2026	180	-0.400
15/01/2026	240	-0.400
15/01/2026	300	-0.400
15/01/2026	360	-0.420
15/01/2026	420	-0.420

***Soakaway failed - Pit backfilled**

Start depth	Depth of Pit	Diff	75% full	25%full
0.36	1.000	0.645	0.51625	0.83875





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SA02

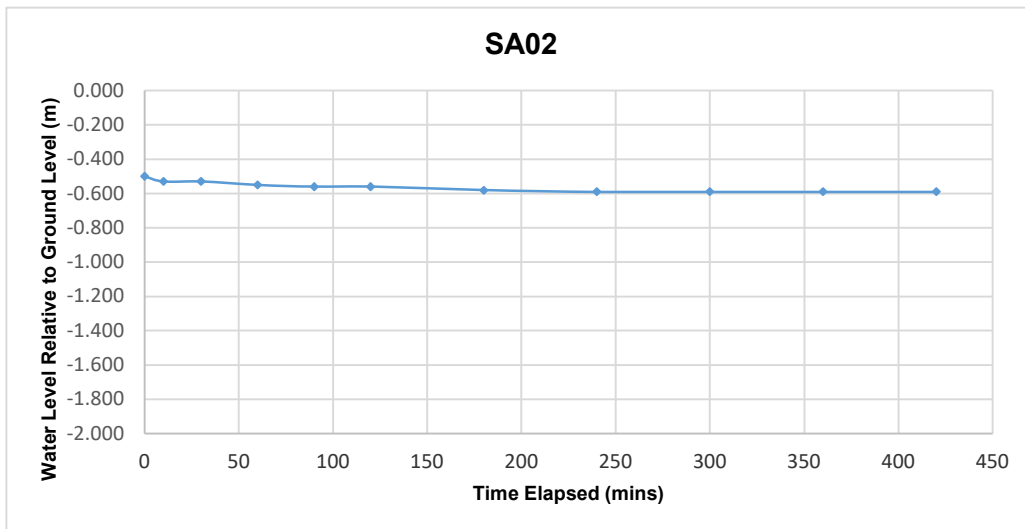
Soakaway Test to BRE Digest 365

Trial Pit Dimensions: 2.0m x 0.60m x 2.3m (L x W x D)

Date	Time	Water level (m bgl)
15/01/2026	0	-0.500
15/01/2026	10	-0.530
15/01/2026	30	-0.530
15/01/2026	60	-0.550
15/01/2026	90	-0.560
15/01/2026	120	-0.560
15/01/2026	180	-0.580
15/01/2026	240	-0.590
15/01/2026	300	-0.590
15/01/2026	360	-0.590
15/01/2026	420	-0.590

***Soakaway failed - Pit backfilled**

Start depth	Depth of Pit	Diff	75% full	25%full
0.50	2.000	1.500	0.875	1.625



APPENDIX 5 – Window Sample Records





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 16/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708317.04 N727027.95
Project No. : 15186-11-25	Crew Name: SK & JP	Drilling Equipment: Tecopsa Tec10

Borehole Number WS001	Hole Type WS	Level 96.25m AoD	Logged By MD	Scale 1:25	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
0.00					96.00	0.25	MADE GROUND: Brown slightly sandy slightly gravelly Clay with grass and wooden rootlets and rare fragments of Tarmac.	
1.00					95.25	1.00	Firm brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular fine to medium.	
2.00					94.65	1.60	Soft to firm dark grey slightly sandy slightly gravelly clayey SILT with rare organic matter. Sand is fine to coarse. Gravel slightly angular to subangular fine to medium. (Hydrocarbon odour)	
					93.75	2.50	Soft to firm dark grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse.	
					93.55	2.70	Gravel is subangular to subrounded fine to coarse.	

Hole Diameter		Casing Diameter		Chiselling			Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
2.00	88	2.00	88								
2.70	68	2.70	68								

Remarks
 0.00m-1.00m BGL: 93% Recovery. 1.00m-2.00m BGL: 92% Recovery. 2.00m-2.70m BGL: 62% Recovery.
 Window sample refused at 2.70m BGL.
 Backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 16/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708315.80 N726989.47
Project No. : 15186-11-25	Crew Name: SK & JP	Drilling Equipment: Tecopsa Tec10

Borehole Number WS002	Hole Type WS	Level 95.84m AoD	Logged By MD	Scale 1:25	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.00					95.74	0.10	TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and rootlets. MADE GROUND: Brown slightly sandy slightly gravelly Silt.		
					95.24	0.60	MADE GROUND: Brown mottled yellowish brown and black slightly sandy slightly gravelly Silt.		
1.00					94.84	1 1.00	Firm brown mottled grey and yellowish brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium.		
					94.14	1.70	Firm brown slightly silty slightly sandy very gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00					93.74	2 2.10	Firm brownish grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to angular fine to coarse.		
					93.14	2.70	Soft to firm dark grey slightly clayey slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to angular fine to coarse.		
					92.84	3 3.00			
						4			
						5			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
2.00	88	2.00	88								
3.00	68	3.00	68								

Remarks
 0.00m-1.00m BGL: 100% Recovery. 1.00m-2.00m BGL: 80% Recovery. 2.00m-3.00m BGL: 100% Recovery.
 Window sample refused at 3.00m BGL.
 Backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 16/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708323.32 N726962.06
Project No. : 15186-11-25	Crew Name: SK & JP	Drilling Equipment: Tecopsa Tec10

Borehole Number WS003	Hole Type WS	Level 96.11m AoD	Logged By MD	Scale 1:25	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.00					96.06	0.05	TOPSOIL: Brown slightly sandy Clay with grass and rootlets. MADE GROUND: Brown slightly sandy slightly gravelly Silt.		
					95.41	0.70	MADE GROUND: Brown mottled yellowish brown and black slightly sandy slightly gravelly silty Clay.		
1.00					95.11	1 1.00	Stiff brown slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
					94.46	1.65	Firm to stiff grey mottled brown slightly sandy slightly gravelly clayey SILT with low subangular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular fine to coarse.		
					94.11	2 2.00			
						3			
						4			
						5			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.00	88	1.00	88								
2.00	68	2.00	68								

Remarks
 0.00m-1.00m BGL: 100% Recovery. 1.00m-2.00m BGL: 91% Recovery.
 Window sample refused at 2.00m BGL.
 Backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 16/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708322.44 N726948.15
Project No. : 15186-11-25	Crew Name: SK & JP	Drilling Equipment: Tecopsa Tec10

Borehole Number WS004	Hole Type WS	Level 96.32m AoD	Logged By MD	Scale 1:25	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
0.00					96.22	0.10 TOPSOIL: Brown slightly sandy Clay with grass and rootlets. MADE GROUND: Brown slightly sandy slightly gravelly Silt.		
1.00					95.62	0.70 Soft to firm yellowish brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium.		
					95.32	1 1.00 Soft to firm greyish brown mottled black slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium.		
					95.12	1.20 Firm brown mottled grey slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00					94.22	2 2.10 Soft to firm dark grey slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium.		
					93.52	2.80		
					3			
					4			
					5			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
2.00	88	2.00	88								
2.80	68	2.80	68								

Remarks
 0.00m-1.00m BGL: 100% Recovery. 1.00m-2.00m BGL: 96% Recovery. 2.00m-2.80m BGL: 90% Recovery.
 Window sample refused at 2.80m BGL.
 Backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 19/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708310.47 N726976.92
Project No. : 15186-11-25	Crew Name: SK & JP	Drilling Equipment: Tecopsa Tec10

Borehole Number WS005	Hole Type WS	Level 96.16m AoD	Logged By MD	Scale 1:25	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.00					96.11	0.05	TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and rootlets. MADE GROUND: Brown sandy slightly gravelly silty Clay.		
1.00					95.41	0.75	Firm to stiff brown mottled grey and yellowish brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subrounded fine to medium.		
2.00					94.46	1.70	Firm greyish brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
					93.71	2.45	Soft to firm dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
					93.41	2.75	Dark grey silty sandy CLAY. Sand is fine to coarse		
					93.16	3 3.00			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
2.00	88	2.00	88								
3.00	68	3.00	68								

Remarks
 0.00m-1.00m BGL: 100% Recovery. 1.00m-2.00m BGL: 93% Recovery. 2.00m-3.00m BGL: 100% Recovery.
 Window sample refused at 3.00m BGL.
 Backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 19/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708286.30 N726947.16
Project No. : 15186-11-25	Crew Name: SK & JP	Drilling Equipment: Tecopsa Tec10

Borehole Number WS006	Hole Type WS	Level 96.22m AoD	Logged By MD	Scale 1:25	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
0.00					96.14	0.08 TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and rootlets. MADE GROUND: Brown slightly sandy slightly gravelly silty Clay.		
1.00					95.36 95.22	0.85 1.00 Soft to firm brown mottled light grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subrounded fine to medium. Soft to firm brownish grey sandy slightly gravelly silty CLAY with occasional medium sand lenses. Gravel is subrounded fine to medium. Sand is fine to coarse.		
					94.86	1.35 Soft to firm brown mottled grey and yellowish brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium.		
2.00					94.36 94.22 94.12	1.85 2.00 2.10 Soft dark grey sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Soft dark grey sandy slightly gravelly silty CLAY with medium sand lenses. Gravel is subangular to subrounded fine to medium. Sand is fine to coarse.		
					93.82	2.40 Soft dark grey sandy gravelly CLAY with occasional medium sand lenses. Gravel is subangular to subrounded fine to medium. Sand is fine to coarse.		
					3			
					4			
					5			

Hole Diameter		Casing Diameter		Chiselling			Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
2.00	88	2.00	88								
2.40	68	2.40	68								

Remarks
 0.00m-1.00m BGL: 96% Recovery. 1.00m-2.00m BGL: 90% Recovery. 2.00m-2.40m BGL: 100% Recovery.
 Window sample refused at 2.40m BGL.
 Backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght		Client: DBFL		Date: 19/01/2026	
Location: Whitestown Road, Co. Dublin		Contractor: GII Ltd.		Co-ords: E708247.59 N726924.60	
Project No. : 15186-11-25		Crew Name: SK & JP		Drilling Equipment: Tecopsa Tec10	
Borehole Number WS007	Hole Type WS	Level 96.95m AoD	Logged By MD	Scale 1:25	Page Number Sheet 1 of 1

Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
0.00					96.85	0.10	TOPSOIL: Brown slightly sandy slightly gravelly Clay with rootlets.	
					96.60	0.35	MADE GROUND: Brown slightly sandy slightly gravelly Clay with rootlets.	
					96.30	0.65	MADE GROUND: Yellowish brown mottled light grey slightly sandy slightly gravelly silty Clay with rare rootlets.	
1.00					1		Soft to firm Brown mottled yellow and grey slightly sandy slightly gravelly slightly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
					95.55	1.40	Soft to firm brownish grey sandy gravelly slightly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
2.00					2			
					94.65	2.30	Soft to firm dark grey sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
					94.25	2.70		
					3			
					4			
					5			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
2.00	88	2.00	88								
2.70	68	2.70	68								

Remarks
 0.00m-1.00m: BGL: 100% Recovery. 1.00m-2.00m BGL: 75% Recovery. 2.00m-2.70m BGL: 100% Recovery.
 Window sample refused at 2.70m BGL.
 Backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 19/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708227.19 N726924.52
Project No. : 15186-11-25	Crew Name: SK & JP	Drilling Equipment: Tecopsa Tec 10

Borehole Number WS008	Hole Type WS	Level 97.18m AoD	Logged By RON	Scale 1:25	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
0.00					96.98	0.20	TOPSOIL: Brown slightly sandy Clay with grass and rootlets.	
							MADE GROUND: brown slightly sandy slightly gravelly Clay with rare fragments of red brick.	
1.00					96.38	0.80	Firm greyish brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
					95.58	1.60	Stiff light greyish brown sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
2.00					94.68	2.50		

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
2.00	88	2.00	88								
2.50	68	2.50	68								

Remarks
 0.00m-1.00m: BGL: 91% Recovery. 1.00m-2.00m BGL: 75% Recovery. 2.00m-2.70m BGL: 100% Recovery.
 Window sample refused at 2.50m BGL.
 Backfilled upon completion.



Whitestown Way Tallaght – Window Sample Photographs



WS001



WS002

Whitestown Way Tallaght – Window Sample Photographs



WS003



WS004

Whitestown Way Tallaght – Window Sample Photographs



WS005



WS006

Whitestown Way Tallaght – Window Sample Photographs



WS007



WS008

APPENDIX 6 – Plate Bearing Test Records

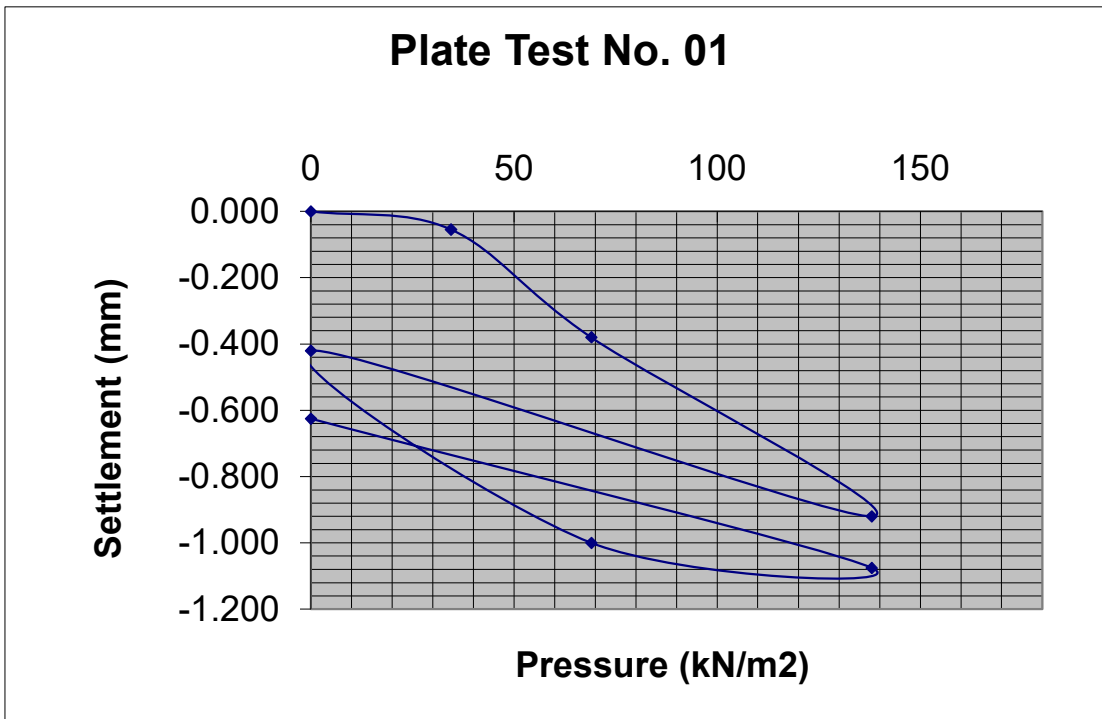


Applied Load	Gauge settlement
0	0.000
34.5	-0.055
69	-0.38
138	-0.92
0	-0.42
69	-1
138	-1.075
0	-0.625



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

LOCATION	Whitestown Way, Tallaght	MATERIAL	Grey slightly sandy clayey subangular to subrounded fine to coarse GRAVEL.
CONTRACT NO.	15186-11-25		
DATE	15/01/2026		
CLIENT	DBFL	DEPTH	0.30m BGL
PLATE DIAMETER	457mm	NOTES	
TEST NO.	CBR-01	SAMPLES	



Modulus of subgrade reaction, K (Initial) = **122.69 MN/m²/m**

Modulus of subgrade reaction, K (Reload) = **80.39 MN/m²/m**

Equivalent CBR(initial)in accordance with HD25/94 volume7 section2 = **40.20 %**

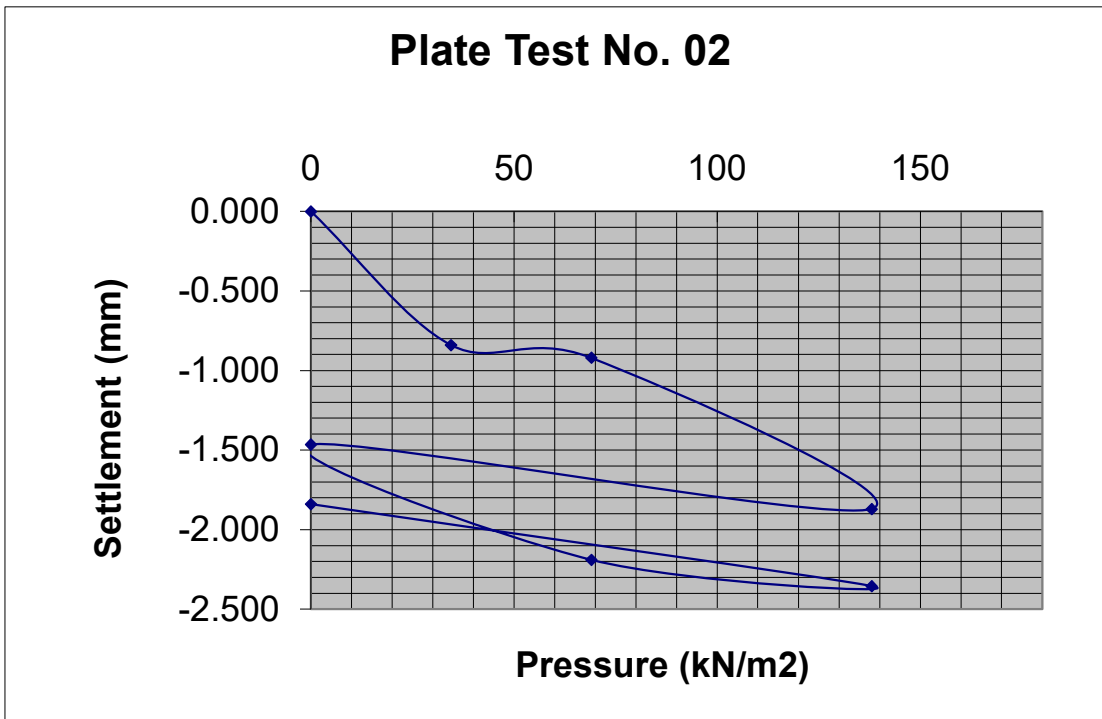
Equivalent CBR(reload)in accordance with HD25/94 volume7 section2 = **19.32 %**

Applied Load	Gauge settlement
0	0.000
34.5	-0.84
69	-0.92
138	-1.87
0	-1.465
69	-2.19
138	-2.355
0	-1.84



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

LOCATION	Whitestown Way, Tallaght	MATERIAL	Brown slightly sandy gravelly CLAY.
CONTRACT NO.	15186-11-25		
DATE	15/01/2026		
CLIENT	DBFL	DEPTH	0.30m BGL
PLATE DIAMETER	457mm	NOTES	
TEST NO.	CBR-02	SAMPLES	



Modulus of subgrade reaction, K (Initial) = **50.68 MN/m²/m**

Modulus of subgrade reaction, K (Reload) = **64.31 MN/m²/m**

Equivalent CBR(initial)in accordance with HD25/94 volume7 section2 = **8.69 %**

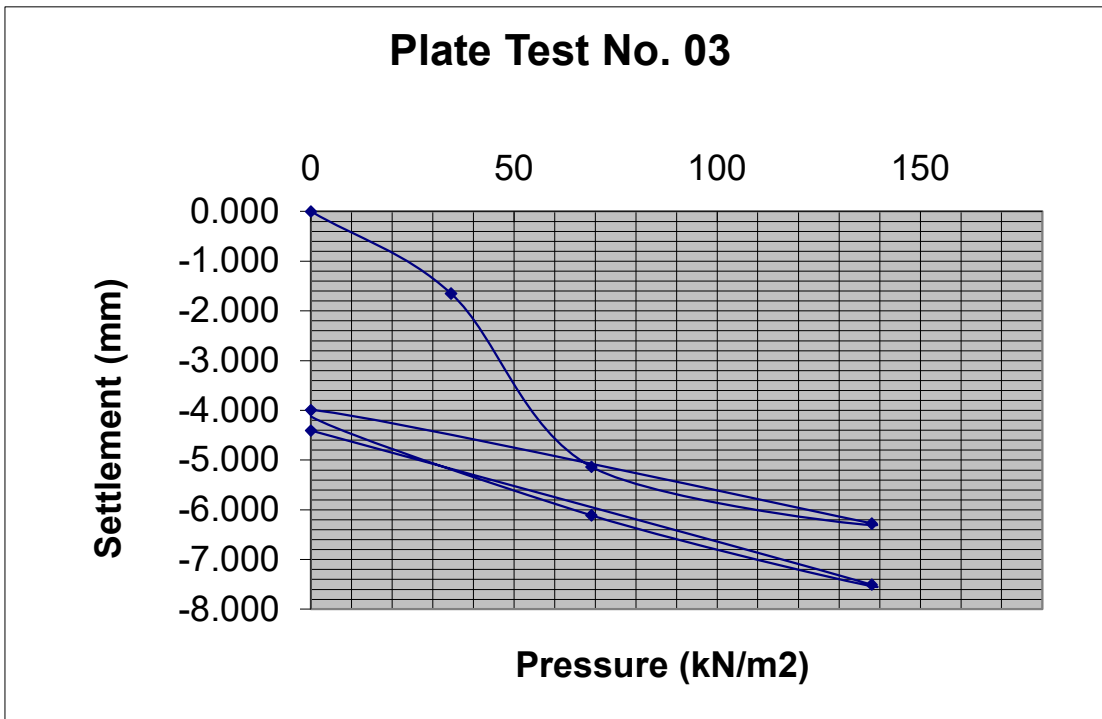
Equivalent CBR(reload)in accordance with HD25/94 volume7 section2 = **13.12 %**

Applied Load	Gauge settlement
0	0.000
34.5	-1.65
69	-5.135
138	-6.275
0	-3.995
69	-6.11
138	-7.505
0	-4.405



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

LOCATION	Whitestown Way, Tallaght	MATERIAL	Brown slightly sandy slightly gravelly CLAY.
CONTRACT NO.	15186-11-25		
DATE	15/01/2026		
CLIENT	DBFL	DEPTH	0.30m BGL
PLATE DIAMETER	457mm	NOTES	
TEST NO.	CBR-03	SAMPLES	



Modulus of subgrade reaction, K (Initial) = **9.08 MN/m²/m**

Modulus of subgrade reaction, K (Reload) = **22.04 MN/m²/m**

Equivalent CBR(initial)in accordance with HD25/94 volume7 section2 = **0.44 %**

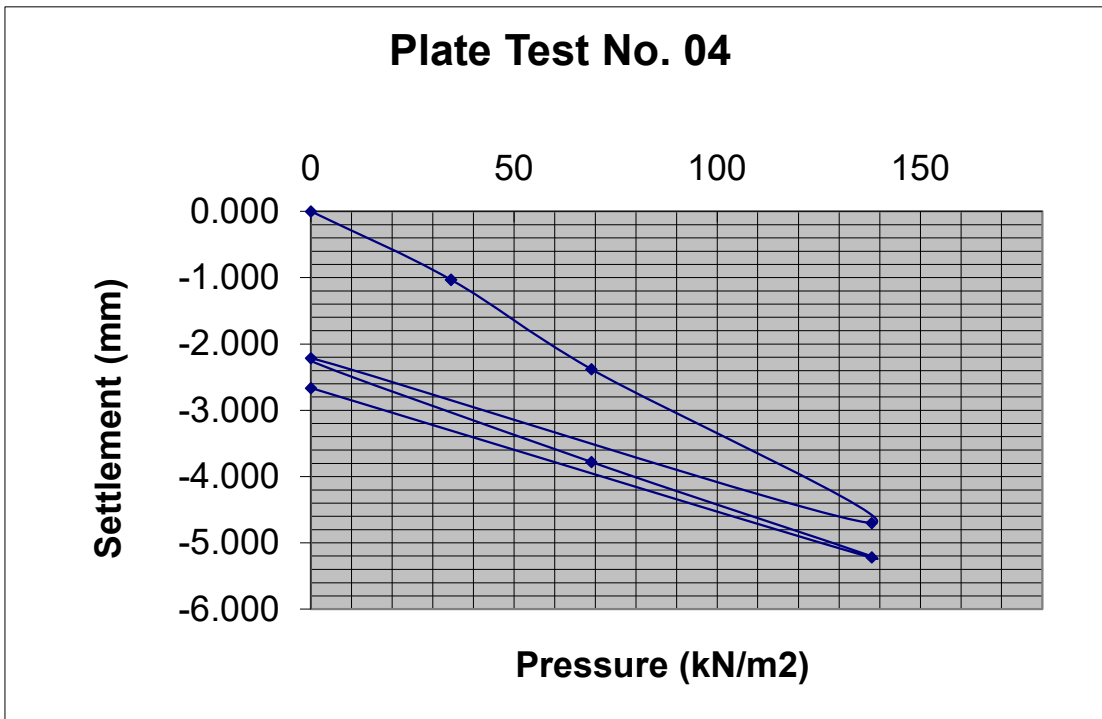
Equivalent CBR(reload)in accordance with HD25/94 volume7 section2 = **2.05 %**

Applied Load	Gauge settlement
0	0.000
34.5	-1.03
69	-2.38
138	-4.7
0	-2.215
69	-3.78
138	-5.22
0	-2.665



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

LOCATION	Whitestown Way, Tallaght	MATERIAL	Brown slightly sandy slightly gravelly CLAY.
CONTRACT NO.	15186-11-25		
DATE	15/01/2026		
CLIENT	DBFL	DEPTH	0.45m
PLATE DIAMETER	457mm	NOTES	
TEST NO.	CBR-04	SAMPLES	



Modulus of subgrade reaction, K (Initial) = **19.59 MN/m²/m**

Modulus of subgrade reaction, K (Reload) = **29.79 MN/m²/m**

Equivalent CBR(initial)in accordance with HD25/94 volume7 section2 = **1.67 %**

Equivalent CBR(reload)in accordance with HD25/94 volume7 section2 = **3.46 %**

APPENDIX 7 – Cable Percussion Borehole Records





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 09/02/2026 - 10/02/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708292.56 N727021.13
Project No. : 15186-11-25	Crew Name: JF & CS	Drilling Equipment: Dando 2000

Borehole Number BH001	Hole Type CP	Level 95.54m AoD	Logged By RON	Scale 1:50	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.50	B				95.24	0.30	MADE GROUND: Brown slightly sandy gravelly Clay with low cobble content. Light brown mottled grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
1.00	B			N=17 (2,2/4,4,4,5)	1				
1.00	SPT				94.14	1.40	Stiff brown slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	B			N=23 (4,4/5,5,6,7)	2				
2.00	SPT				92.84	2.70	Very stiff brownish grey sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
3.00	B			N=34 (5,6/7,7,9,11)	3				
3.00	SPT								
4.00	B			N=50 (8,9/50 for 285mm)	4				
4.00	SPT								
5.00	B			N=50 (7,7/50 for 285mm)	5				
5.00	SPT								
6.00	B			50 (10,14/50 for 200mm)	6				
6.00	SPT								
7.00	B			N=50 (10,10/50 for 285mm)	7	7.00	Very stiff grey slightly sandy gravelly CLAY with low rounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.		
7.50	SPT								
8.00	B				87.54	8 8.00			
						9			
						10			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
8.00	200	8.00	200								

Remarks
 No groundwater encountered.
 Cable Percussion borehole terminated at Scheduled depth.
 50mm standpipe installed: Slotted pipe with gravel filter from 8.00m to 1.00m BGL. Plain pipe with bentonite seal from 1.00m BGL to ground level. Complete with raised cover.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght		Client: DBFL		Date: 19/02/2026 - 20/02/2026	
Location: Whitestown Road, Co. Dublin		Contractor: GII Ltd.		Co-ords: E708338.33 N727020.43	
Project No. : 15186-11-25		Crew Name: JF & CS		Drilling Equipment: Dando 2000	
Borehole Number BH002	Hole Type CP	Level 95.51m AoD	Logged By RON	Scale 1:50	Page Number Sheet 1 of 2

Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.50	B			N=14 (2,2/3,3,4,4)	95.41	0.10	TOPSOIL: Brown mottled black and grey slightly sandy slightly gravelly CLAY with rootlets		
1.00	B				95.01	0.50	MADE GROUND: Dark grey slightly clayey slightly sandy subangular to subrounded fine to coarse Gravel with rare fragments of red brick		
1.00	SPT				94.51	1 1.00	Light brown mottled grey silty slightly sandy gravelly CLAY. Firm light brown mottled grey silty slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	B			N=19 (2,3/4,4,5,6)	93.51	2 2.00	Stiff light brown mottled grey silty slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	SPT					92.81	2.70	Very stiff dark grey slightly sandy gravelly CLAY with low subrounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.	
3.00	B			N=23 (6,5/5,6,5,7)		3			
3.00	SPT					91.51	4 4.00	Stiff dark grey slightly sandy gravelly CLAY with low subrounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.	
4.00	B			N=32 (6,9/8,7,7,10)		4			
4.00	SPT					90.11	5.40	Very stiff dark brownish grey slightly sandy gravelly CLAY with medium rounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.	
5.00	B			N=46 (5,7/7,10,12,17)		5			
5.00	SPT						6		
6.00	B			N=50 (7,8/50 for 275mm)		6			
6.00	SPT						7		
7.00	B			N=50 (9,11/50 for 235mm)		7			
7.50	SPT						8		
8.00	B			50 (10,12/50 for 170mm)		8			
9.00	B						9		
9.00	SPT					10			
10.00	B								

Hole Diameter		Casing Diameter		Chiselling			Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
12.00	200	12.00	200								

Remarks
 Groundwater encountered at 4.50m BGL.
 Cable Percussion borehole terminated at Scheduled depth.
 50mm standpipe installed: Slotted pipe with gravel filter from 12.00m to 1.00m BGL. Plain pipe with bentonite seal from 1.00m BGL to ground level. Complete with raised cover.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 19/02/2026 - 20/02/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708338.33 N727020.43
Project No. : 15186-11-25	Crew Name: JF & CS	Drilling Equipment: Dando 2000

Borehole Number BH002	Hole Type CP	Level 95.51m AoD	Logged By RON	Scale 1:50	Page Number Sheet 2 of 2
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
10.50	SPT			N=50 (9,9/50 for 260mm)				
11.00	B				11			
12.00	B			50 (17,19/50 for 160mm)	83.51			
12.00	SPT				12 12.00			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
12.00	200	12.00	200								

Remarks
 Groundwater encountered at 4.50m BGL.
 Cable Percussion borehole terminated at Scheduled depth.
 50mm standpipe installed: Slotted pipe with gravel filter from 12.00m to 1.00m BGL. Plain pipe with bentonite seal from 1.00m BGL to ground level. Complete with raised cover.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 10/02/2026 - 11/02/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708297.59 N726982.85
Project No. : 15186-11-25	Crew Name: JF & CS	Drilling Equipment: Dando 2000

Borehole Number BH003	Hole Type CP	Level 96.00m AoD	Logged By RON	Scale 1:50	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.50	B			N=14 (2,2/3,3,4,4)	95.60	0.40	MADE GROUND: Brown slightly sandy slightly gravelly Clay with low cobble content.		
1.00 1.00	B SPT				95.10	0.90	Light brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00 2.00	B SPT			N=19 (3,3/4,4,5,6)	94.30	1.70	Firm brown mottled grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
3.00 3.00	B SPT			N=33 (6,7/7,8,9,9)	93.40	2.60	Stiff greyish brown mottled black sandy gravelly CLAY with low cobble content.		
4.00 4.00	B SPT			N=43 (8,9/10,10,10,13)	93.00	3.00	Very stiff greyish brown mottled black sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
5.00 5.00	B SPT			N=50 (7,10/50 for 285mm)	91.00	5.00	Very stiff grey slightly sandy gravelly CLAY with medium rounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.		
6.00 6.00	B SPT			N=50 (10,12/50 for 235mm)		6			
7.00	B					7			
7.50	SPT			50 (7,10/50 for 160mm)					
8.00	B				88.00	8.00			
						9			
						10			

Hole Diameter		Casing Diameter		Chiselling			Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
8.00	200	8.00	200								

Remarks
 Groundwater encountered at 4.00m BGL.
 Cable Percussion borehole terminated at Scheduled depth.
 Borehole backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 23/02/2026 - 24/02/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708328.90 N726999.19
Project No. : 15186-11-25	Crew Name: JF & CS	Drilling Equipment: Dando 2000

Borehole Number BH004	Hole Type CP	Level 95.55m AoD	Logged By RON	Scale 1:50	Page Number Sheet 1 of 2
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
0.50	B				94.85	MADE GROUND: Brown slightly sandy slightly gravelly Clay with rootlets and rare fragments of red brick.		
1.00	B			N=12 (1,2/2,3,3,4)	94.55	Dark brown mottled black sandy gravelly CLAY		
1.00	SPT				1 1.00	Firm dark brown mottled black slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	B			N=23 (2,2/4,5,7,7)	93.55	Stiff dark brown mottled black slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	SPT				2 2.00			
3.00	B			N=28 (3,4/5,7,8,8)	92.95	Stiff black slightly sandy gravelly CLAY with low rounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
3.00	SPT				3 2.60			
4.00	B		▼	N=44 (5,7/9,10,10,15)	91.75	Very stiff dark greyish brown slightly sandy gravelly CLAY with medium rounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.		
4.00	SPT				4 3.80			
5.00	B			N=50 (8,10/50 for 275mm)	5			
5.00	SPT				5			
6.00	B			N=50 (10,15/50 for 285mm)	6			
6.00	SPT				6			
7.00	B				7			
7.50	SPT			50 (9,11/50 for 210mm)	8			
8.00	B				8			
9.00	B			50 (10,15/50 for 210mm)	9			
9.00	SPT				9			
10.00	B				10			

Hole Diameter		Casing Diameter		Chiselling			Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
12.00	200	12.00	200								

Remarks
Groundwater encountered at 3.80m BGL.
Cable Percussion borehole terminated at Scheduled depth.
Borehole backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 23/02/2026 - 24/02/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708328.90 N726999.19
Project No. : 15186-11-25	Crew Name: JF & CS	Drilling Equipment: Dando 2000

Borehole Number BH004	Hole Type CP	Level 95.55m AoD	Logged By RON	Scale 1:50	Page Number Sheet 2 of 2
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
10.50	SPT			50 (8,9/50 for 200mm)				
11.00	B				11			
12.00	B			50 (25 for 110mm/50 for 85mm)	83.55			
12.00	SPT				12 12.00			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
12.00	200	12.00	200								

Remarks
 Groundwater encountered at 3.80m BGL.
 Cable Percussion borehole terminated at Scheduled depth.
 Borehole backfilled upon completion.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 11/02/2026 - 12/02/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708307.84 N726952.68
Project No. : 15186-11-25	Crew Name: JF & CS	Drilling Equipment: Dando 2000

Borehole Number BH005	Hole Type CP	Level 95.95m AoD	Logged By RON	Scale 1:50	Page Number Sheet 1 of 1
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.50	B				95.85	0.10	TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and rootlets.		
1.00	B			N=10 (2,2,2,2,3,3)	94.95	1 1.00	Light brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
1.00	SPT						Firm light brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	B			N=28 (2,4/5,7,7,9)	93.95	2 2.00	Stiff black sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	SPT								
3.00	B			N=50 (5,7,9,10,14,17)	92.95	3 3.00	Very stiff black sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
3.00	SPT								
4.00	B			50 (8,10/50 for 210mm)	92.15	3.80	Very stiff brownish grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.		
4.00	SPT								
5.00	B			50 (9,16/50 for 145mm)	90.95	5 5.00	Very stiff brownish grey slightly sandy gravelly CLAY with low rounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.		
5.00	SPT								
6.00	B			N=50 (9,10/50 for 275mm)		6			
6.00	SPT								
7.00	B					7			
7.50	SPT			50 (10,17/50 for 220mm)					
8.00	B				87.95	8 8.00			
						9			
						10			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
8.00	200	8.00	200								

Remarks
 No groundwater encountered.
 Cable Percussion borehole terminated at Scheduled depth.
 50mm standpipe installed: Slotted pipe with gravel filter from 8.00m to 1.00m BGL. Plain pipe with bentonite seal from 1.00m BGL to ground level. Complete with raised cover.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght		Client: DBFL		Date: 25/02/2026 - 26/02/2026	
Location: Whitestown Road, Co. Dublin		Contractor: GII Ltd.		Co-ords: E708345.22 N726967.20	
Project No. : 15186-11-25		Crew Name: JF & CS		Drilling Equipment: Dando 2000	
Borehole Number BH006	Hole Type CP	Level 95.48m AoD	Logged By RON	Scale 1:50	Page Number Sheet 1 of 2

Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)		Stratum Description	Legend	Well
Depth (m)	Type								
0.50	B				95.28	0.20	TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and rootlets.		
1.00	B			N=12 (2,2/2,3,3,4)	94.48	1 1.00	Dark brown mottled black silty slightly sandy gravelly CLAY with low subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
1.00	SPT						Firm dark brown mottled black silty slightly sandy gravelly CLAY with low subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	B			N=21 (2,3/4,5,6,6)	93.48	2 2.00	Stiff dark brown mottled black silty slightly sandy gravelly CLAY with low subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
2.00	SPT								
3.00	B			N=33 (5,6/7,7,9,10)	92.78	2.70	Very stiff black slightly sandy gravelly CLAY with low cobble rounded content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.		
3.00	SPT								
4.00	B			N=40 (7,8/6,10,10,14)		4			
4.00	SPT								
5.00	B			N=50 (8,10/50 for 285mm)		5			
5.00	SPT								
6.00	B			N=50 (6,12/50 for 285mm)		6	Very stiff dark brownish grey slightly sandy gravelly CLAY with medium rounded cobble content. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.		
6.00	SPT								
7.00	B					7			
7.50	SPT			50 (6,17/50 for 125mm)					
8.00	B					8			
9.00	B			50 (8,10/50 for 190mm)		9			
9.00	SPT								
10.00	B					10			

Hole Diameter		Casing Diameter		Chiselling			Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
12.00	200	12.00	200								

Remarks
 No groundwater encountered.
 Cable Percussion borehole terminated at Scheduled depth.
 50mm standpipe installed: Slotted pipe with gravel filter from 12.00m to 1.00m BGL. Plain pipe with bentonite seal from 1.00m BGL to ground level. Complete with raised cover.





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Borehole Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 25/02/2026 - 26/02/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708345.22 N726967.20
Project No. : 15186-11-25	Crew Name: JF & CS	Drilling Equipment: Dando 2000

Borehole Number BH006	Hole Type CP	Level 95.48m AoD	Logged By RON	Scale 1:50	Page Number Sheet 2 of 2
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Sample Depth and Type		Casing Diameter	Water Strikes	In Situ Testing Results	Level (m)	Stratum Description	Legend	Well
Depth (m)	Type							
10.50	SPT			40 (9, 10/40 for 200mm)				
11.00	B				11			
12.00	B			50 (25 for 75mm/50 for 0mm)	83.48			
12.00	SPT				12 12.00			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
12.00	200	12.00	200								

Remarks
 No groundwater encountered.
 Cable Percussion borehole terminated at Scheduled depth.
 50mm standpipe installed: Slotted pipe with gravel filter from 12.00m to 1.00m BGL. Plain pipe with bentonite seal from 1.00m BGL to ground level. Complete with raised cover.



APPENDIX 8 – Laboratory Testing



Ground Investigations Ireland
Catherinstown House
Hazelhatch Road
Newcastle
Co. Dublin
Ireland
D22 K5P8



4225



Attention : Scott Graydon
Date : 20th February, 2026
Your reference : 15186-11-25
Our reference : Test Report 26/1885 Batch 1
Location : N/A
Date samples received : 6th February, 2026
Status : Final Report
Issue : 202602200854

Four samples were received for analysis on 6th February, 2026 of which four were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 20.562 kg of CO2

Scope 1&2&3 emissions - 48.592 kg of CO2

Authorised By:



Phil Sommerton BSc
Senior Technical Account Manager

Please include all sections of this report if it is reproduced

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: N/A
Contact: Scott Graydon

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
26/1885	1	WS01	0.75	4	Charlotte Taylor	10/02/2026	General Description (Bulk Analysis)	brown soil/stones
					Charlotte Taylor	10/02/2026	Asbestos Fibres	NAD
					Charlotte Taylor	10/02/2026	Asbestos Fibres (2)	NAD
					Charlotte Taylor	10/02/2026	Asbestos ACM	NAD
					Charlotte Taylor	10/02/2026	Asbestos ACM (2)	NAD
					Charlotte Taylor	10/02/2026	Asbestos Type	NAD
					Charlotte Taylor	10/02/2026	Asbestos Type (2)	NAD
26/1885	1	WS01	1.70	8	Simon Postlewhite	10/02/2026	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	10/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	10/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	10/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	10/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	10/02/2026	Asbestos Type	NAD
					Simon Postlewhite	10/02/2026	Asbestos Type (2)	NAD
26/1885	1	WS02	0.70	12	Simon Postlewhite	10/02/2026	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	10/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	10/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	10/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	10/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	10/02/2026	Asbestos Type	NAD
					Simon Postlewhite	10/02/2026	Asbestos Type (2)	NAD
26/1885	1	WS02	1.70	16	Mathew Day	10/02/2026	General Description (Bulk Analysis)	Brown soil, stones
					Mathew Day	10/02/2026	Asbestos Fibres	NAD
					Mathew Day	10/02/2026	Asbestos Fibres (2)	NAD
					Mathew Day	10/02/2026	Asbestos ACM	NAD
					Mathew Day	10/02/2026	Asbestos ACM (2)	NAD
					Mathew Day	10/02/2026	Asbestos Type	NAD
					Mathew Day	10/02/2026	Asbestos Type (2)	NAD

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 26/1885

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

Age of Diesel

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

Tentatively Identified Compounds (TICs)

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 26/1885

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes

EMT Job No: 26/1885

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes

EMT Job No: 26/1885

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM61	Determination of Mercury by Cold Vapour Atomic Fluorescence - WATERS: Modified USEPA Method 245.7, Rev 2, Feb 2005. SOILS: Modified USEPA Method 7471B, Rev.2, Feb 2007	PM0	No preparation is required.	Yes		AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
NONE	No Method Code	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.				
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	

Ground Investigations Ireland
Catherinstown House
Hazelhatch Road
Newcastle
Co. Dublin
Ireland
D22 K5P8



4225



Attention : Scott Graydon
Date : 25th February, 2026
Your reference : 15186-11-25
Our reference : Test Report 26/2125 Batch 1
Location : Whitestown Way Tallaght
Date samples received : 11th February, 2026
Status : Final Report
Issue : 202602251644

Twenty three samples were received for analysis on 11th February, 2026 of which twenty three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 115.695 kg of CO2

Scope 1&2&3 emissions - 273.418 kg of CO2

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	IT-01	IT-02	IT-0	ST-001	ST-001	ST-007	ST-007	ST-008	ST-008	ST-010			
Depth	0.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	LOD/LOR	Units	Method No.
Antimony	3	2	2	3	<1	2	2	2	2	2	<1	mg/kg	TM30/PM15
Arsenic #	18.7	13.8	13.5	18.0	9.2	33.7	10.2	33.9	11.5	14.3	<0.5	mg/kg	TM30/PM15
Barium #	147	94	89	142	53	157	67	149	78	64	<1	mg/kg	TM30/PM15
Cadmium #	2.4	1.5	1.5	3.3	<0.3	1.3	1.0	1.1	1.3	1.2	<0.3	mg/kg	TM30/PM15
Chromium #	26.6	35.8	40.3	25.9	31.0	88.0	48.1	92.5	32.9	46.9	<0.5	mg/kg	TM30/PM15
Copper #	48	36	39	50	30	35	26	34	29	38	<1	mg/kg	TM30/PM15
Lead #	27	22	21	28	12	33	14	37	16	20	<5	mg/kg	TM30/PM15
Mercury #	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Molybdenum #	2.6	2.9	3.0	4.4	1.0	5.3	3.6	5.7	2.7	4.2	<0.1	mg/kg	TM30/PM15
Nickel #	87.2	52.2	46.2	63.1	22.8	45.8	32.2	42.7	39.9	50.5	<0.7	mg/kg	TM30/PM15
Selenium #	1	1	1	3	<1	2	1	2	2	1	<1	mg/kg	TM30/PM15
Zinc #	122	94	89	116	96	135	76	136	84	93	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Coronene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
PAH 6 Total #	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	mg/kg	TM4/PM8
PAH 17 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
Benzo(j)fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM4/PM8
PAH Surrogate % Recovery	100	99	93	93	92	86	88	95	91	87	<0	%	TM4/PM8
Mineral Oil (C10-C40) (EH_CU_1D_AL)	<30	<30	<30	<30 ^{SV}	<30	<30	<30	<30	<30 ^{SV}	<30	<30	mg/kg	TM5/PM8/PM16

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	IT-01	IT-02	IT-0	ST-001	ST-001	ST-007	ST-007	ST-008	ST-008	ST-010			
Depth	0.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	<0.2	<0.2 ^{SV}	<0.2	<0.2	<0.2	<0.2	<0.2 ^{SV}	<0.2	<0.2	mg/kg	TMS/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	<4	<4 ^{SV}	<4	<4	<4	<4	<4 ^{SV}	<4	<4	mg/kg	TMS/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	<7	<7	<7 ^{SV}	<7	<7	<7	<7	<7 ^{SV}	<7	<7	mg/kg	TMS/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7	<7	<7	<7 ^{SV}	<7	<7	<7	<7	<7 ^{SV}	<7	<7	mg/kg	TMS/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	<7	<7	<7	<7 ^{SV}	<7	<7	<7	<7	<7 ^{SV}	<7	<7	mg/kg	TMS/PM8/PM16
Total aliphatics C5-40 (EH_CU+HS_1D_AL)	<26	<26	<26	<26 ^{SV}	<26	<26	<26	<26	<26 ^{SV}	<26	<26	mg/kg	TMS/PM8/PM16/PM12/PM15
>C6-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C25 (EH_CU_1D_AL)	<10	<10	<10	<10 ^{SV}	<10	<10	<10	<10	<10 ^{SV}	<10	<10	mg/kg	TMS/PM8/PM16
>C25-C35 (EH_CU_1D_AL)	<10	<10	<10	<10 ^{SV}	<10	<10	<10	<10	<10 ^{SV}	<10	<10	mg/kg	TMS/PM8/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2 ^{SV}	<0.2	<0.2	<0.2	<0.2	<0.2 ^{SV}	<0.2	<0.2	mg/kg	TMS/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4 ^{SV}	<4	<4	<4	<4	<4 ^{SV}	<4	<4	mg/kg	TMS/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7 ^{SV}	<7	<7	<7	<7	<7 ^{SV}	<7	<7	mg/kg	TMS/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	<7	<7 ^{SV}	<7	<7	<7	<7	<7 ^{SV}	<7	<7	mg/kg	TMS/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	<7	<7	<7	<7 ^{SV}	<7	<7	<7	<7	<7 ^{SV}	<7	<7	mg/kg	TMS/PM8/PM16
Total aromatics C5-40 (EH_CU+HS_1D_AR)	<26	<26	<26	<26 ^{SV}	<26	<26	<26	<26	<26 ^{SV}	<26	<26	mg/kg	TMS/PM8/PM16/PM12/PM15
Total aliphatics and aromatics(C5-40) (EH_CU+HS_1D_Total)	<52	<52	<52	<52 ^{SV}	<52	<52	<52	<52	<52 ^{SV}	<52	<52	mg/kg	TMS/PM8/PM16/PM12/PM15
>EC6-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC25 (EH_CU_1D_AR)	<10	<10	<10	<10 ^{SV}	<10	<10	<10	<10	<10 ^{SV}	<10	<10	mg/kg	TMS/PM8/PM16
>EC25-EC35 (EH_CU_1D_AR)	<10	<10	<10	<10 ^{SV}	<10	<10	<10	<10	<10 ^{SV}	<10	<10	mg/kg	TMS/PM8/PM16
MTBE #	<5	<5	<5	<5	<5 ^{SV}	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
Benzene #	<5	<5	<5	<5	<5 ^{SV}	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
Toluene #	<5	<5	<5	<5	<5 ^{SV}	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
Ethylbenzene #	<5	<5	<5	<5	<5 ^{SV}	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
m/p-Xylene #	<5	<5	<5	<5	<5 ^{SV}	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
o-Xylene #	<5	<5	<5	<5	<5 ^{SV}	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
PCB 28 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 52 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 101 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 118 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 138 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 153 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 180 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
Total 7 PCBs #	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	ug/kg	TM17/PM8

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	41-44	45-48	49-52	53-56	57-60	61-64	65-68	69-72	73-76	77-80	Please see attached notes for all abbreviations and acronyms			
	Sample ID	ST-010	WS-03	WS-03	WS-04	WS-04	WS-05	WS-05	WS-06	WS-06	WS-07	LOD/LOR	Units	Method No.
Depth	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75				
COC No / misc														
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T				
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1	1				
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026				
Antimony	2	2	2	2	3	2	2	2	2	1	<1	mg/kg	TM30/PM15	
Arsenic #	11.3	19.1	14.7	16.1	20.5	19.4	10.6	18.1	11.3	11.7	<0.5	mg/kg	TM30/PM15	
Barium #	99	95	74	90	100	145	65	75	47	60	<1	mg/kg	TM30/PM15	
Cadmium #	1.2	0.9	1.6	1.2	1.2	1.3	0.9	1.5	1.7	1.4	<0.3	mg/kg	TM30/PM15	
Chromium #	28.3	78.9	32.1	35.5	30.2	61.9	42.5	105.3	18.7	20.4	<0.5	mg/kg	TM30/PM15	
Copper #	33	41	44	37	52	45	34	36	33	36	<1	mg/kg	TM30/PM15	
Lead #	18	32	22	46	32	51	18	24	18	19	<5	mg/kg	TM30/PM15	
Mercury #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15	
Molybdenum #	3.2	5.5	3.3	1.9	3.2	4.1	4.2	8.1	2.0	1.5	<0.1	mg/kg	TM30/PM15	
Nickel #	47.1	44.2	65.5	48.2	89.5	49.5	39.4	45.9	49.7	45.2	<0.7	mg/kg	TM30/PM15	
Selenium #	<1	2	3	2	2	2	1	1	<1	<1	<1	mg/kg	TM30/PM15	
Zinc #	86	115	114	119	149	120	84	97	102	94	<5	mg/kg	TM30/PM15	
PAH MS														
Naphthalene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8	
Acenaphthene #	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8	
Fluorene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
Phenanthrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8	
Anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
Fluoranthene #	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8	
Pyrene #	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8	
Benzo(a)anthracene #	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8	
Chrysene #	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8	
Benzo(bk)fluoranthene #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8	
Benzo(a)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
Indeno(123cd)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
Coronene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8	
PAH 6 Total #	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	mg/kg	TM4/PM8	
PAH 17 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	mg/kg	TM4/PM8	
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8	
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8	
Benzo(j)fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM4/PM8	
PAH Surrogate % Recovery	111	93	86	99	87	96	98	86	90	98	<0	%	TM4/PM8	
Mineral Oil (C10-C40) (EH_CU_1D_AL)	<30	<30	<30	<30	<30	<30	<30	<30 ^{SV}	<30	<30	<30	mg/kg	TM5/PM8/PM16	

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	41-44	45-48	49-52	53-56	57-60	61-64	65-68	69-72	73-76	77-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	ST-010	WS-03	WS-03	WS-04	WS-04	WS-05	WS-05	WS-06	WS-06	WS-07			
Depth	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 ^{SV}	<0.2	<0.2	<0.2	mg/kg	TMS/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	<4	<4	<4	<4	<4	<4 ^{SV}	<4	<4	<4	mg/kg	TMS/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	<7	<7	<7	<7	<7	<7	<7 ^{SV}	<7	<7	<7	mg/kg	TMS/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7	<7	<7	12	<7	<7	<7	<7 ^{SV}	<7	<7	<7	mg/kg	TMS/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	<7	<7	<7	<7	<7	<7	<7	<7 ^{SV}	<7	<7	<7	mg/kg	TMS/PM8/PM16
Total aliphatics C5-40 (EH_CU+HS_1D_AL)	<26	<26	<26	<26	<26	<26	<26	<26 ^{SV}	<26	<26	<26	mg/kg	TMS/PM8/PM16/PM12/PM15
>C6-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C25 (EH_CU_1D_AL)	<10	<10	<10	<10	<10	<10	<10	<10 ^{SV}	<10	<10	<10	mg/kg	TMS/PM8/PM16
>C25-C35 (EH_CU_1D_AL)	<10	<10	<10	<10	<10	<10	<10	<10 ^{SV}	<10	<10	<10	mg/kg	TMS/PM8/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 ^{SV}	<0.2	<0.2	<0.2	mg/kg	TMS/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4	<4	<4	<4	<4 ^{SV}	<4	<4	<4	mg/kg	TMS/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7 ^{SV}	<7	<7	<7	mg/kg	TMS/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7 ^{SV}	<7	<7	<7	mg/kg	TMS/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	<7	<7	<7	<7	<7	<7	<7	<7 ^{SV}	<7	<7	<7	mg/kg	TMS/PM8/PM16
Total aromatics C5-40 (EH_CU+HS_1D_AR)	<26	<26	<26	<26	<26	<26	<26	<26 ^{SV}	<26	<26	<26	mg/kg	TMS/PM8/PM16/PM12/PM15
Total aliphatics and aromatics(C5-40) (EH_CU+HS_1D_Total)	<52	<52	<52	<52	<52	<52	<52	<52 ^{SV}	<52	<52	<52	mg/kg	TMS/PM8/PM16/PM12/PM15
>EC6-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC25 (EH_CU_1D_AR)	<10	<10	<10	<10	<10	<10	<10	<10 ^{SV}	<10	<10	<10	mg/kg	TMS/PM8/PM16
>EC25-EC35 (EH_CU_1D_AR)	<10	<10	<10	<10	<10	<10	<10	<10 ^{SV}	<10	<10	<10	mg/kg	TMS/PM8/PM16
MTBE #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
Benzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM36/PM12
PCB 28 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 52 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 101 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 118 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 138 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 153 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 180 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
Total 7 PCBs #	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	ug/kg	TM17/PM8

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : CEN 10:1 1 Batch

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	IT-01	IT-02	IT-0	ST-001	ST-001	ST-007	ST-007	ST-008	ST-008	ST-010			
Depth	0.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	LOD/LOR	Units	Method No.
Dissolved Antimony [#]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM30/PM17
Dissolved Antimony (A10) [#]	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM30/PM17
Dissolved Arsenic [#]	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	mg/l	TM30/PM17
Dissolved Arsenic (A10) [#]	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	mg/kg	TM30/PM17
Dissolved Barium [#]	<0.003	0.003	0.003	0.004	0.006	<0.003	<0.003	0.006	<0.003	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Barium (A10) [#]	<0.03	<0.03	<0.03	0.04	0.06	<0.03	<0.03	0.06	<0.03	<0.03	<0.03	mg/kg	TM30/PM17
Dissolved Cadmium [#]	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/l	TM30/PM17
Dissolved Cadmium (A10) [#]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM30/PM17
Dissolved Chromium [#]	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	mg/l	TM30/PM17
Dissolved Chromium (A10) [#]	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	mg/kg	TM30/PM17
Dissolved Copper [#]	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/l	TM30/PM17
Dissolved Copper (A10) [#]	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM30/PM17
Dissolved Lead [#]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	TM30/PM17
Dissolved Lead (A10) [#]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM30/PM17
Dissolved Molybdenum [#]	0.003	0.007	0.006	0.003	0.009	<0.002	0.009	<0.002	0.010	0.007	<0.002	mg/l	TM30/PM17
Dissolved Molybdenum (A10) [#]	0.03	0.07	0.06	0.03	0.09	<0.02	0.09	<0.02	0.10	0.07	<0.02	mg/kg	TM30/PM17
Dissolved Nickel [#]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM30/PM17
Dissolved Nickel (A10) [#]	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM30/PM17
Dissolved Selenium [#]	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Selenium (A10) [#]	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM30/PM17
Dissolved Zinc [#]	0.003	0.003	0.003	0.003	0.004	0.004	0.003	0.004	0.003	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Zinc (A10) [#]	<0.03	<0.03	<0.03	<0.03	0.04	0.04	0.03	0.04	0.03	<0.03	<0.03	mg/kg	TM30/PM17
Mercury Dissolved by CVAF [#]	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	mg/l	TM61/PM0
Mercury Dissolved by CVAF [#]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/kg	TM61/PM0
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM26/PM0
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM26/PM0
Fluoride	0.5	0.4	0.4	0.6	0.8	0.5	0.3	0.5	0.3	<0.3	<0.3	mg/l	TM173/PM0
Fluoride	5	4	4	6	8	5	3	5	3	<3	<3	mg/kg	TM173/PM0
Sulphate as SO4 [#]	0.5	0.7	0.9	<0.5	2.6	<0.5	0.9	<0.5	1.2	0.5	<0.5	mg/l	TM38/PM0
Sulphate as SO4 [#]	<5	7	9	<5	26	<5	9	<5	12	<5	<5	mg/kg	TM38/PM0
Mass of raw test portion	0.1068	0.1057	0.1078	0.1029	0.0976	0.1092	0.0996	0.1089	0.1028	0.1067		kg	NONE/PM17
Chloride [#]	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	mg/l	TM38/PM0
Chloride [#]	<3	<3	<3	4	<3	<3	<3	4	<3	<3	<3	mg/kg	TM38/PM0
Mass of dried test portion	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		kg	NONE/PM17
Dissolved Organic Carbon	<2	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	mg/l	TM60/PM0
Dissolved Organic Carbon	<20	<20	<20	30	<20	<20	<20	<20	<20	<20	<20	mg/kg	TM60/PM0
pH	8.01	7.77	8.19	8.12	8.02	8.18	8.12	8.06	8.17	8.09	<0.01	pH units	TM73/PM0

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : CEN 10:1 1 Batch
Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	41-44	45-48	49-52	53-56	57-60	61-64	65-68	69-72	73-76	77-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	ST-010	WS-03	WS-03	WS-04	WS-04	WS-05	WS-05	WS-06	WS-06	WS-07			
Depth	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	LOD/LOR	Units	Method No.
Dissolved Antimony #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM30/PM17
Dissolved Antimony (A10) #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM30/PM17
Dissolved Arsenic #	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	mg/l	TM30/PM17
Dissolved Arsenic (A10) #	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	mg/kg	TM30/PM17
Dissolved Barium #	<0.003	<0.003	<0.003	0.005	<0.003	<0.003	<0.003	0.007	<0.003	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Barium (A10) #	<0.03	<0.03	<0.03	0.05	<0.03	<0.03	<0.03	0.07	<0.03	<0.03	<0.03	mg/kg	TM30/PM17
Dissolved Cadmium #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/l	TM30/PM17
Dissolved Cadmium (A10) #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM30/PM17
Dissolved Chromium #	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	mg/l	TM30/PM17
Dissolved Chromium (A10) #	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	mg/kg	TM30/PM17
Dissolved Copper #	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/l	TM30/PM17
Dissolved Copper (A10) #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM30/PM17
Dissolved Lead #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	TM30/PM17
Dissolved Lead (A10) #	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM30/PM17
Dissolved Molybdenum #	0.007	0.002	0.010	0.002	0.009	<0.002	0.010	<0.002	0.006	0.004	<0.002	mg/l	TM30/PM17
Dissolved Molybdenum (A10) #	0.07	<0.02	0.10	<0.02	0.09	<0.02	0.10	<0.02	0.06	0.04	<0.02	mg/kg	TM30/PM17
Dissolved Nickel #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM30/PM17
Dissolved Nickel (A10) #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM30/PM17
Dissolved Selenium #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Selenium (A10) #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM30/PM17
Dissolved Zinc #	<0.003	<0.003	0.004	<0.003	<0.003	0.003	<0.003	<0.003	0.003	0.004	<0.003	mg/l	TM30/PM17
Dissolved Zinc (A10) #	<0.03	<0.03	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.04	<0.03	mg/kg	TM30/PM17
Mercury Dissolved by CVAF #	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	mg/l	TM61/PM0
Mercury Dissolved by CVAF #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/kg	TM61/PM0
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM26/PM0
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM26/PM0
Fluoride	<0.3	0.4	0.4	0.5	<0.3	0.4	0.4	<0.3	<0.3	0.3	<0.3	mg/l	TM173/PM0
Fluoride	<3	4	4	5	<3	4	4	<3	<3	<3	<3	mg/kg	TM173/PM0
Sulphate as SO4 #	0.6	<0.5	<0.5	0.5	0.9	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	mg/l	TM38/PM0
Sulphate as SO4 #	6	<5	<5	<5	9	<5	14	<5	<5	<5	<5	mg/kg	TM38/PM0
Mass of raw test portion	0.1051	0.1089	0.1049	0.1046	0.1003	0.1133	0.1036	0.1177	0.1023	0.1051		kg	NONE/PM17
Chloride #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/l	TM38/PM0
Chloride #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	mg/kg	TM38/PM0
Mass of dried test portion	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		kg	NONE/PM17
Dissolved Organic Carbon	<2	<2	2	<2	<2	2	<2	2	<2	<2	<2	mg/l	TM60/PM0
Dissolved Organic Carbon	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	mg/kg	TM60/PM0
pH	8.00	8.15	8.01	8.17	8.04	8.11	8.07	7.64	7.92	7.92	<0.01	pH units	TM73/PM0

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : EN12457_2
Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40						
Sample ID	IT-01	IT-02	IT-0	ST-001	ST-001	ST-007	ST-007	ST-008	ST-008	ST-010						
Depth	0.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75						
COC No / misc																
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T						
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026						
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
Batch Number	1	1	1	1	1	1	1	1	1	1	Inert	Stable Non-reactive	Hazardous	LOD LOR	Units	Method No.
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026						
Solid Waste Analysis																
Total Organic Carbon #	0.38	0.35	0.44	0.89	0.42	1.17	0.33	1.01	0.30	0.36	3	5	6	<0.02	%	TM21/PM24
Sum of BTEX	<0.025	<0.025	<0.025	<0.025	<0.025 ^{SV}	<0.025	<0.025	<0.025	<0.025	<0.025	6	-	-	<0.025	mg/kg	TM36/PM12
Sum of 7 PCBs #	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	1	-	-	<0.035	mg/kg	TM17/PM8
Mineral Oil	<30	<30	<30	<30 ^{SV}	<30	<30	<30	<30	<30 ^{SV}	<30	500	-	-	<30	mg/kg	TM5/PM8/PM16
PAH Sum of 6 #	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	-	-	-	<0.22	mg/kg	TM4/PM8
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	100	-	-	<0.64	mg/kg	TM4/PM8
CEN 10:1 Leachate																
Arsenic #	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.5	2	25	<0.025	mg/kg	TM30/PM17
Barium #	<0.03	<0.03	<0.03	0.04	0.06	<0.03	<0.03	0.06	<0.03	<0.03	20	100	300	<0.03	mg/kg	TM30/PM17
Cadmium #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04	1	5	<0.005	mg/kg	TM30/PM17
Chromium #	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.5	10	70	<0.015	mg/kg	TM30/PM17
Copper #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	2	50	100	<0.07	mg/kg	TM30/PM17
Mercury #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.01	0.2	2	<0.0001	mg/kg	TM61/PM0
Molybdenum #	0.03	0.07	0.06	0.03	0.09	<0.02	0.09	<0.02	0.10	0.07	0.5	10	30	<0.02	mg/kg	TM30/PM17
Nickel #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.4	10	40	<0.02	mg/kg	TM30/PM17
Lead #	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	10	50	<0.05	mg/kg	TM30/PM17
Antimony #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.7	5	<0.02	mg/kg	TM30/PM17
Selenium #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	0.5	7	<0.03	mg/kg	TM30/PM17
Zinc #	<0.03	<0.03	<0.03	<0.03	0.04	0.04	0.03	0.04	0.03	<0.03	4	50	200	<0.03	mg/kg	TM30/PM17
Total Dissolved Solids #	500	540	500	710	530	640	430	620	370	<350	4000	60000	100000	<350	mg/kg	TM20/PM0
Dissolved Organic Carbon	<20	<20	<20	30	<20	<20	<20	<20	<20	<20	500	800	1000	<20	mg/kg	TM60/PM0
Mass of raw test portion	0.1068	0.1057	0.1078	0.1029	0.0976	0.1092	0.0996	0.1089	0.1028	0.1067	-	-	-		kg	NONE/PM17
Dry Matter Content Ratio	84.2	85.2	83.4	87.6	91.8	82.7	90.7	82.3	87.2	84.4	-	-	-	<0.1	%	NONE/PM4
Leachant Volume	0.883	0.884	0.882	0.887	0.892	0.881	0.891	0.881	0.887	0.883	-	-	-		l	NONE/PM17
Moisture Content 105C (% Dry Weight)	18.7	17.4	19.8	14.1	9.0	20.9	10.3	21.5	14.7	18.5	-	-	-	<0.1	%	PM4/PM0
pH #	8.52	8.51	8.63	8.46	8.66	8.32	8.73	8.17	8.65	8.52	-	-	-	<0.01	pH units	TM73/PM11
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	-	-	<0.1	mg/kg	TM26/PM0
Fluoride	5	4	4	6	8	5	3	5	3	<3	10	150	500	<3	mg/kg	TM173/PM0
Sulphate as SO4 #	<5	7	9	<5	26	<5	9	<5	12	<5	1000	20000	50000	<5	mg/kg	TM38/PM0
Chloride #	<3	<3	<3	4	<3	<3	<3	4	<3	<3	800	15000	25000	<3	mg/kg	TM38/PM0

Please see attached notes for all abbreviations and acronyms

Unable to perform guideline check. Limits of detection have been raised. This could be due to insufficient sample, dilution or matrix effect.

Element Materials Technology

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon
EMT Job No: 26/2125

Report : EN12457_2
Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	41-44	45-48	49-52	53-56	57-60	61-64	65-68	69-72	73-76	77-80						
Sample ID	ST-010	WS-03	WS-03	WS-04	WS-04	WS-05	WS-05	WS-06	WS-06	WS-07						
Depth	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75	1.75	0.75						
COC No / misc																
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T						
Sample Date	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026	26/01/2026						
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
Batch Number	1	1	1	1	1	1	1	1	1	1	Inert	Stable Non-reactive	Hazardous	LOD LOR	Units	Method No.
Date of Receipt	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026	11/02/2026						
Solid Waste Analysis																
Total Organic Carbon #	0.25	0.92	0.39	1.63	0.57	1.99	0.46	0.72	0.36	0.32	3	5	6	<0.02	%	TM21/PM24
Sum of BTEX	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	6	-	-	<0.025	mg/kg	TM36/PM12
Sum of 7 PCBs #	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	1	-	-	<0.035	mg/kg	TM17/PM8
Mineral Oil	<30	<30	<30	<30	<30	<30	<30	<30 ^{SW}	<30	<30	500	-	-	<30	mg/kg	TM5/PM8/PM16
PAH Sum of 6 #	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	-	-	-	<0.22	mg/kg	TM4/PM8
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	100	-	-	<0.64	mg/kg	TM4/PM8
CEN 10:1 Leachate																
Arsenic #	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.5	2	25	<0.025	mg/kg	TM30/PM17
Barium #	<0.03	<0.03	<0.03	0.05	<0.03	<0.03	<0.03	0.07	<0.03	<0.03	20	100	300	<0.03	mg/kg	TM30/PM17
Cadmium #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04	1	5	<0.005	mg/kg	TM30/PM17
Chromium #	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.5	10	70	<0.015	mg/kg	TM30/PM17
Copper #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	2	50	100	<0.07	mg/kg	TM30/PM17
Mercury #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.01	0.2	2	<0.0001	mg/kg	TM61/PM0
Molybdenum #	0.07	<0.02	0.10	<0.02	0.09	<0.02	0.10	<0.02	0.06	0.04	0.5	10	30	<0.02	mg/kg	TM30/PM17
Nickel #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.4	10	40	<0.02	mg/kg	TM30/PM17
Lead #	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	10	50	<0.05	mg/kg	TM30/PM17
Antimony #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.7	5	<0.02	mg/kg	TM30/PM17
Selenium #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	0.5	7	<0.03	mg/kg	TM30/PM17
Zinc #	<0.03	<0.03	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.04	4	50	200	<0.03	mg/kg	TM30/PM17
Total Dissolved Solids #	360	460	760	<350	410	690	530	460	410	440	4000	60000	100000	<350	mg/kg	TM20/PM0
Dissolved Organic Carbon	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	500	800	1000	<20	mg/kg	TM60/PM0
Mass of raw test portion	0.1051	0.1089	0.1049	0.1046	0.1003	0.1133	0.1036	0.1177	0.1023	0.1051	-	-	-		kg	NONE/PM17
Dry Matter Content Ratio	85.2	82.6	86.0	85.9	89.9	79.7	86.7	76.4	88.0	86.0	-	-	-	<0.1	%	NONE/PM4
Leachant Volume	0.884	0.881	0.885	0.885	0.89	0.877	0.886	0.872	0.888	0.885	-	-	-		l	NONE/PM17
Moisture Content 105C (% Dry Weight)	17.4	21.1	16.2	16.5	11.3	25.5	15.3	31.0	13.6	16.2	-	-	-	<0.1	%	PM4/PM0
pH #	8.60	8.41	8.59	8.38	8.48	8.30	8.64	8.04	8.70	8.31	-	-	-	<0.01	pH units	TM73/PM11
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	-	-	<0.1	mg/kg	TM26/PM0
Fluoride	<3	4	4	5	<3	4	4	<3	<3	<3	10	150	500	<3	mg/kg	TM173/PM0
Sulphate as SO4 #	6	<5	<5	<5	9	<5	14	<5	<5	<5	1000	20000	50000	<5	mg/kg	TM38/PM0
Chloride #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	800	15000	25000	<3	mg/kg	TM38/PM0

Please see attached notes for all abbreviations and acronyms

Unable to perform guideline check. Limits of detection have been raised. This could be due to insufficient sample, dilution or matrix effect.

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon

Note:
 Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
26/2125	1	IT-01	0.75	4	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	IT-02	0.75	8	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	IT-0	1.75	12	Simon Postlewhite	16/02/2026	General Description (Bulk Analysis)	Brown oil/stones
					Simon Postlewhite	16/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	16/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	ST-001	0.75	16	Simon Postlewhite	16/02/2026	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	16/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	16/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	ST-001	1.75	20	Simon Postlewhite	16/02/2026	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	16/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	16/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type (2)	NAD

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
26/2125	1	ST-007	0.75	24	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	ST-007	1.75	28	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	ST-008	0.75	32	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	ST-008	1.75	36	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	ST-010	0.75	40	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	ST-010	1.75	44	Simon Postlewhite	16/02/2026	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	16/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	16/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	WS-03	0.75	48	Caoimhe Anders	16/02/2026	General Description (Bulk Analysis)	Brown soil, stones
					Caoimhe Anders	16/02/2026	Asbestos Fibres	NAD
					Caoimhe Anders	16/02/2026	Asbestos ACM	NAD
					Caoimhe Anders	16/02/2026	Asbestos Type	NAD

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
26/2125	1	WS-03	1.75	52	Caoimhe Anders	16/02/2026	General Description (Bulk Analysis)	Brown soil, stones
					Caoimhe Anders	16/02/2026	Asbestos Fibres	NAD
					Caoimhe Anders	16/02/2026	Asbestos ACM	NAD
					Caoimhe Anders	16/02/2026	Asbestos Type	NAD
26/2125	1	WS-04	0.75	56	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
26/2125	1	WS-04	1.75	60	Simon Postlewhite	16/02/2026	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	16/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	16/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type (2)	NAD
26/2125	1	WS-05	0.75	64	Simon Postlewhite	16/02/2026	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	16/02/2026	Asbestos Fibres	NAD
					Simon Postlewhite	16/02/2026	Asbestos Fibres (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM	NAD
					Simon Postlewhite	16/02/2026	Asbestos ACM (2)	NAD
					Simon Postlewhite	16/02/2026	Asbestos Type	NAD
26/2125	1	WS-05	1.75	68	Caoimhe Anders	16/02/2026	General Description (Bulk Analysis)	Brown soil, stones
					Caoimhe Anders	16/02/2026	Asbestos Fibres	NAD
					Caoimhe Anders	16/02/2026	Asbestos ACM	NAD
					Caoimhe Anders	16/02/2026	Asbestos Type	NAD
26/2125	1	WS-06	0.75	72	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
26/2125	1	WS-06	1.75	76	Kieran Hubbard	16/02/2026	General Description (Bulk Analysis)	brown soil
					Kieran Hubbard	16/02/2026	Asbestos Fibres	NAD
					Kieran Hubbard	16/02/2026	Asbestos Fibres (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM	NAD
					Kieran Hubbard	16/02/2026	Asbestos ACM (2)	NAD
					Kieran Hubbard	16/02/2026	Asbestos Type	NAD
26/2125	1	WS-07	0.75	80	Mathew Day	16/02/2026	General Description (Bulk Analysis)	Brown soil, stones
					Mathew Day	16/02/2026	Asbestos Fibres	NAD
					Mathew Day	16/02/2026	Asbestos Fibres (2)	NAD

Element Materials Technology

Notification of Deviating Samples

Client Name: Ground Investigations Ireland
Reference: 15186-11-25
Location: Whitestown Way Tallaght
Contact: Scott Graydon

Matrix : Solid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
26/2125	1	IT-01	0.75	1-4	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	IT-02	0.75	5-8	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	IT-0	1.75	9-12	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-001	0.75	13-16	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-001	1.75	17-20	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-007	0.75	21-24	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-007	1.75	25-28	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-008	0.75	29-32	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-008	1.75	33-36	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-010	0.75	37-40	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	ST-010	1.75	41-44	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-03	0.75	45-48	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-03	1.75	49-52	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-04	0.75	53-56	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-04	1.75	57-60	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-05	0.75	61-64	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-05	1.75	65-68	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-06	0.75	69-72	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-06	1.75	73-76	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-07	0.75	77-80	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-07	1.75	81-84	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-08	0.75	85-88	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt
26/2125	1	WS-08	1.75	89-92	EPH, GRO, PAH, PCB	Sample holding time exceeded prior to receipt

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 26/2125

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

Age of Diesel

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

Tentatively Identified Compounds (TICs)

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 26/2125

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes

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Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes

EMT Job No: 26/2125

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM61	Determination of Mercury by Cold Vapour Atomic Fluorescence - WATERS: Modified USEPA Method 245.7, Rev 2, Feb 2005. SOILS: Modified USEPA Method 7471B, Rev.2, Feb 2007	PM0	No preparation is required.	Yes		AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
NONE	No Method Code	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.				
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	

APPENDIX 9 – Groundwater Monitoring





GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

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Newcastle,
Co. Dublin.
D22 YD52

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GROUNDWATER MONITORING

Whitestown Way Tallaght

BOREHOLE	DATE	TIME	GROUNDWATER (m BGL)	Comments
				(Well Depth)
BH01	19/03/2026	17:00:00	1.46	5.10m BGL
BH02	19/03/2026	17:05:00	1.08	8.14m BGL
BH05	19/03/2026	17:20:00	1.19	5.07m BGL
BH06	19/03/2026	17:25:00	1.84	10.55m BGL
BH01	07/04/2026	15:02:00	1.55	5.10m BGL
BH02	07/04/2026	14:50:00	0.42	8.14m BGL
BH05	07/04/2026	14:56:00	1.56	5.07m BGL
BH06	07/04/2026	14:59:00	2.09	10.55m BGL