S.I. Ltd Contract No: 6597

Client:	Dublin City Council
Engineer:	Hayes Higgins Partnership
Contractor:	Site Investigations Ltd

Priorswood,
Darndale, Dublin 17
Site Investigation Report

Prepared by:

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Stephen Letch

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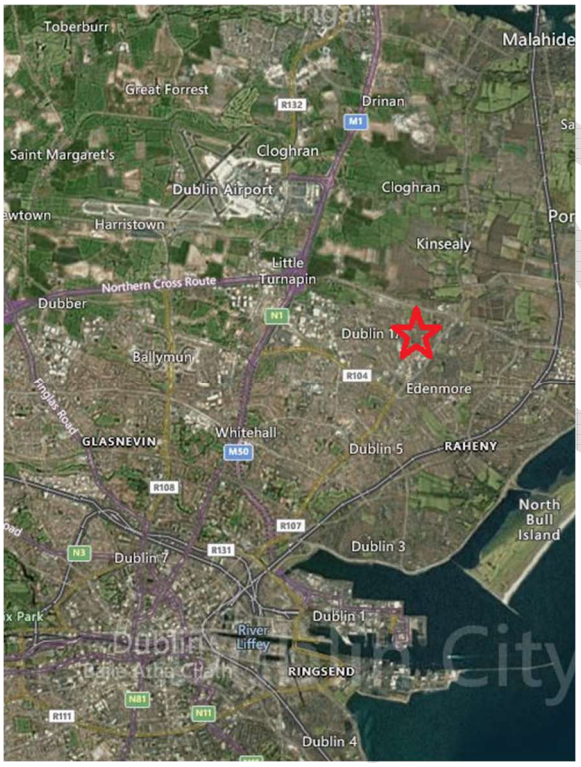
1. Introduction

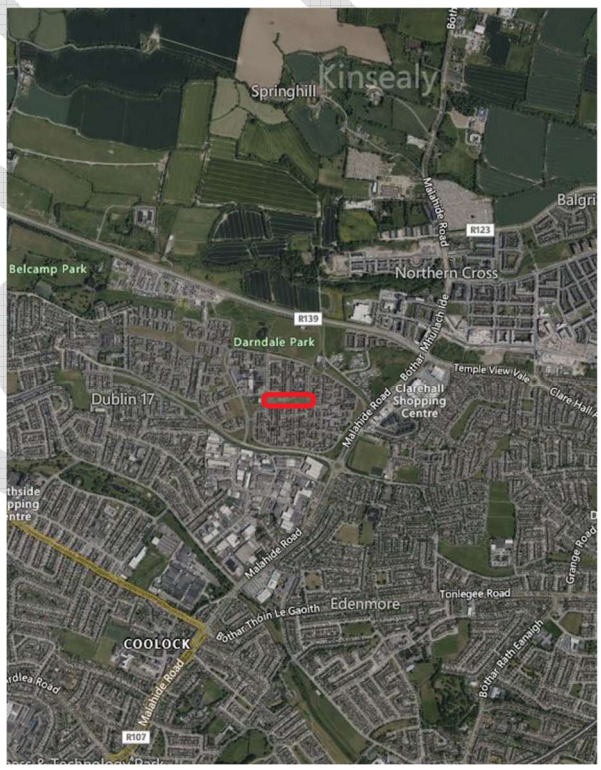
On the instructions of the Engineer, Hayes Higgins Partnership, Site Investigations Ltd (SIL) was appointed to complete a ground investigation at Darndale, Dublin 17. The investigation was completed for an infill housing scheme on behalf of the Client, Dublin City Council, with the fieldworks started in December 2025 and completed in January 2026.

This report presents the factual geotechnical data obtained from the field and laboratory testing with interpretation of the ground conditions discussed.

2. Site Location

The site is located in Darndale, Dublin 17, to the north east of Dublin city centre. The map on the left below shows the location of Darndale to the north east of Dublin city centre and the second map shows the location of the site in the town.





3. Fieldwork

All fieldwork was carried out in accordance with BS 5930:2015, Engineers Ireland GI Specification and Related Document 2nd Edition 2016 and Eurocode 7: Geotechnical Design. The fieldworks comprised of the following:

- 8 No. cable percussive boreholes
- 5 No. rotary coreholes
- 6 No. trial pits with 12 No. plate tests
- 4 No. soakaway tests
- 4 No. California Bearing Ratio (CBR) tests

3.1. Cable Percussive Boreholes

Cable percussion boring was undertaken at 8 No. locations using a Dando 2000 rig and constructed 200mm diameter boreholes. The boreholes terminated at similar depths ranging from 7.20mbgl to 8.10mbgl when an hour and a half of chiselling was completed and no further progress was made. It was not possible to collect undisturbed samples due to the man made and the high granular content soils encountered so bulk disturbed samples were recovered at regular intervals.

To test the strength of the stratum, Standard Penetration Tests (SPT's) were performed at 1.00m intervals in accordance with BS 1377 (1990). In soils with high gravel and cobble content it is appropriate to use a solid cone (60°) (CPT) instead of the split spoon and this was used throughout the testing. The test is completed over 450mm and the cone is driven 150mm into the stratum to ensure that the test is conducted over an undisturbed zone. The cone is then driven the remaining 300mm and the blows recorded to report the N-Value. The report shows the N-Value with the 75mm incremental blows listed in brackets (e.g., BH01 at 1.00mbgl where N=7-(1,1/2,1,2,2)). Where refusal of 50 blows across the test zone was achieved during testing, the penetration depth is also reported (e.g., BH01 at 7.00mbgl where N=50-(25 for 85mm/50 for 15mm)).

The cable percussive borehole logs are presented in Appendix 1.

3.2. Rotary Coreholes

After completion of the boreholes, rotary coreholes were completed at 5 No. locations to investigate if bedrock was at the completion depth of the boreholes. A Sondeq rig was used to advance through the overburden with the coreholes reaching 15.00mbgl at each location with no bedrock encountered.

The rotary corehole logs are presented in Appendix 2.

3.2. Trial Pits with Plate Tests

6 No. trial pits were excavated using a wheeled excavator and they were logged and photographed by SIL geotechnical engineer. Representative disturbed bulk samples were recovered as the pits were excavated, which were returned to the laboratory for geotechnical testing. The pits were backfilled immediately upon completion with the arisings.

At 0.50mbgl and 1.20mbgl in each trial pit, plate tests were completed to provide a California Bearing Ratio value for pavement design. The tests used the excavator to provide kentledge and pressure is then added to a 600mm diameter plate, via a hydraulic jack, with the settlement of the plate measured using gauges. The rate of settlement is used to calculate the CBR value.

The trial pit logs and photographs are presented in Appendix 3 with the plate test results presented in Appendix 4.

3.4. Soakaway Tests

At 4 No. locations, soakaway tests were completed and logged by SIL geotechnical engineer. BRE Special Digest 365 stipulates that the pit should be filled three times and that the final cycle is used to provide the infiltration rate. The time taken for the water level to fall from 75% volume to 25% volume is required to calculate the rate of infiltration. However, if the water level does not fall at a steady rate, then the test is deemed to have failed and the area is unsuitable for storm water drainage. Also, if water ingresses into the pit, then the soils are already saturated and unsuitable for soakaway design.

The soakaway test results and photographs are presented in Appendix 5.

3.4. Surveying

Following completion of all the fieldworks, a survey of the exploratory hole locations was completed using a GeoMax GPS Rover. The data is supplied on each individual log and along with a site plan in Appendix 10.

4. Laboratory Testing

4.1. Geotechnical Testing

Geotechnical laboratory testing was completed on representative soil samples in accordance with BS 1377 (1990). Testing included:

- 5 No. Moisture contents
- 5 No. Atterberg limits
- 5 No. Particle size gradings
- 5 No. pH and sulphate content

The geotechnical laboratory test results are presented in Appendix 6.

4.2. Environmental Testing

Environmental testing was completed by ALS Environmental Ltd. and consists of the following:

- 5 No. Suite I analysis

The environmental results are presented in Appendix 7 with the Waste Classification Report in Appendix 10 and a Soils Recovery Facility Report in Appendix 9.

5. Ground Conditions

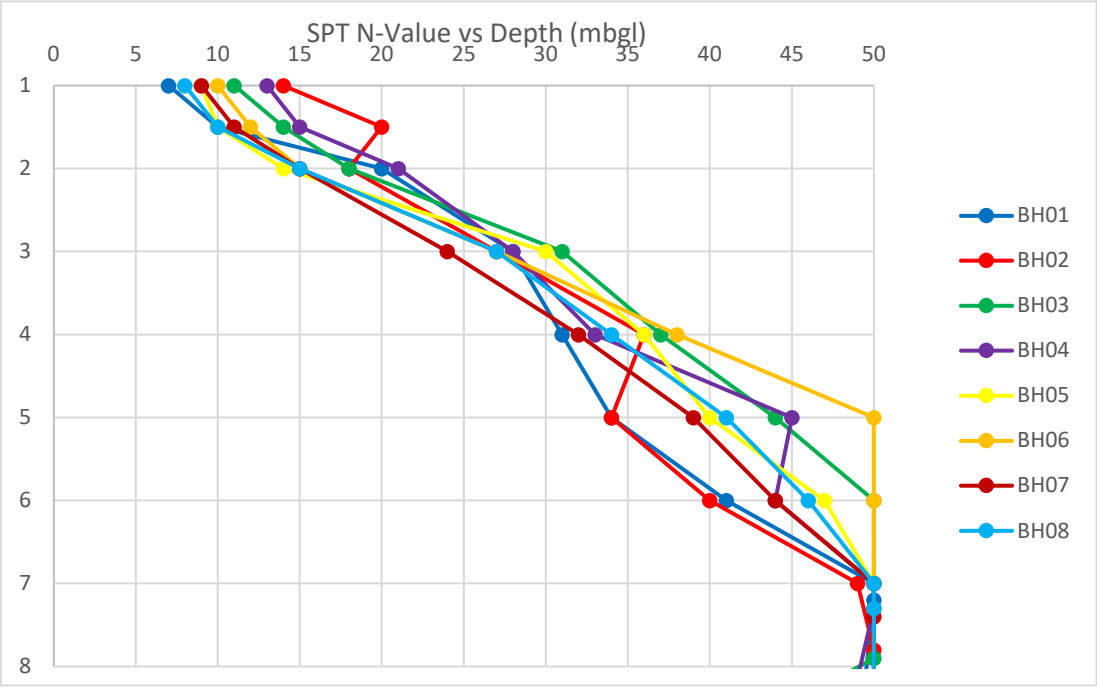
5.1. Overburden

MADE GROUND was recorded in TP01, TP03 and TP04 to depths of 0.60mbgl, 1.30mbgl and 0.80mbgl. This was logged as cohesive brown slightly sandy slightly gravelly silty clay with cobbles and anthropogenic material of plastic fragments were recorded in TP01, making up less than 1% of the soil matrix.

The natural ground conditions are dominated by cohesive brown overlying black slightly sandy slightly gravelly silty CLAY with cobbles. These ground conditions are encountered across the north Leinster region with numerous papers written about Dublin Boulder Clay characteristics with the brown clay the weathered zone of the lower black clay.

The rotary coreholes confirm that the bedrock is deeper than 15.00mbgl.

The SPT N-value profiles recorded similar profiles with values of 7 to 14 at 1.00mbgl, 10 to 20 at 1.50mbgl, 14 to 21 at 2.00mbgl in the brown CLAY and then increasing to 24 to 31 at 3.00mbgl when the black CLAY was encountered. The values then were 31 or higher with many refusals recorded as the boreholes and coreholes advanced. The graph below shows the SPT N-values vs depth from the cable percussive boreholes.



The laboratory tests of the natural cohesive soils show CLAY soils with low plasticity indexes of 13 to 15% recorded. The particle size distribution curves were poorly sorted straight-line curves with low fines content of 46% to 50%.

5.2. Groundwater

Groundwater ingresses were recorded in all the boreholes at shallow depths ranging from 0.30mbgl to 1.70mbgl but each ingress was sealed off before 2.00mbgl.

Ingresses were also recorded in TP01 at 2.50mbgl, TP03 at 1.30mbgl and TP05 at 2.70mbgl, with the ingresses rated as slow to medium.

Finally, three of the four soakaway tests also recorded ingresses between 0.80mbgl and 1.40mbgl with medium ingress rates assessed.

6. Recommendations and Conclusions

Please note the following caveats:

The recommendations given, and opinions expressed in this report are based on the findings as detailed in the exploratory hole records. Where an opinion is expressed on the material between the exploratory hole locations or below the final level of excavation, this is for guidance only and no liability can be accepted for its accuracy. No responsibility can be accepted for adjacent unexpected conditions that have not been revealed by the exploratory holes. It is further recommended that all bearing surfaces when excavated should be inspected by a suitably qualified Engineer to verify the information given in this report.

Excavated surfaces in clay strata should be kept dry to avoid softening prior to foundation placement. Foundations should always be taken to a minimum depth of 0.50mBGL to avoid the effects of frost action and possible seasonal shrinkage/swelling.

If it is intended that on-site materials are to be used as fill, then the necessary laboratory testing should be specified by the Client to confirm the suitability. Also, relevant lab testing should be specified where stability of side slopes to excavations is a concern, or where contamination may be an issue.

6.1. Shallow Foundations

Due to the unknown depth of foundation and no longer-term groundwater information, this analysis assumes the groundwater will not influence the construction or performance of these foundations.

MADE GROUND was encountered across the site to a maximum depth of 1.30mbgl. SIL do not recommend that narrow shallow foundations are placed on fill material due to the unknown compaction methods used during laying of man-made material. This unknown could result in softer spots and differential settlement once construction is completed. If shallow foundations are to be used and man-made soils are encountered below foundation level, then the soil should be removed and replaced with engineered fill which is compacted to the required standard.

In order to calculate the allowable bearing pressures in cohesive soils, a correlation proposed by Stroud and Butler between SPT N-values and plasticity indices is used to calculate the undrained shear strength. Dependent on the plasticity index at each site, the Stroud and Butler correlation is C_u=4 to 6N. With the low to intermediate plasticity indexes recorded in the laboratory for the soils on this site, the correlation chosen is C_u=6N.

Using the lowest value of 7 at 1.00mbgl, this indicates a C_u value of 42kN/m^2. This can then be used to calculate the ultimate bearing capacity, which is the total loading that the soil could withstand and this has been calculated as 232kN/m^2. Finally, a factor of safety is applied to ensure that failure of the soils does not occur and a factor of safety of 3 has been chosen for this site. This provides an allowable bearing capacity of 77kN/m^2.

The values increase to 10 to 20 at 1.50mbgl and the N-value of 10 indicates a C_u of 60kN/m^2, an ultimate bearing capacity of 333kN/m^2 and an allowable bearing capacity of 111kN/m^2.

At 2.00mbgl, the values increase to 14 to 21 and the N-value of 14 indicates a C_u of 84kN/m^2, an ultimate bearing capacity of 464kN/m^2 and an allowable bearing capacity of 155kN/m^2.

Finally, when the black CLAY was encountered between 2.30mbgl and 3.10mbgl, the N-values at 3.00mbgl increase to 24 to 31. The N-value of 24 indicates a C_u of 144kN/m^2, an ultimate bearing capacity of 788kN/m^2 and an allowable bearing capacity of 263kN/m^2.

As discussed previously, these soils are found extensively across the north Leinster region and generally allowable bearing capacities of 125kN/m^2 to 150kN/m^2 would be anticipated for the brown CLAY with 250kN/m^2 to 300kN/m^2 for the black CLAY.

It would be recommended that all founding strata be inspected by a suitably qualified Engineer prior to pouring the foundations and additional insitu testing completed if required to confirm the soils are suitable for the final foundation design.

The following assumptions were made as part of these analyses. If any of these assumptions are not in accordance with detailed design or observations made during construction these recommendations should be re-evaluated.

- Foundations are to be constructed on a level formation of uniform material type.
- All man-made or filled material is to be removed prior to construction.
- The bulk unit weight of the material in this stratum has a minimum density of 19kN/m^3.
- Based on groundwater observations this analysis assumes the groundwater will not influence the construction or performance of these foundations.
- All bearing capacity calculations allow for 25mm settlement.

The trial pit walls generally remained stable during excavation but it would be recommended that all excavations should be checked immediately and battered back accordingly. Regular inspection of temporary excavations should be completed during construction to ensure that all slopes are stable. Temporary support should be used on any excavation that will be left open for an extended period.

6.2. Groundwater

The caveats below relating to interpretation of groundwater levels should be noted:
There is always considerable uncertainty as to the likely rates of water ingress into excavations in clayey soil sites due to the possibility of localised unforeseen sand and gravel lenses acting as permeable conduits for unknown volumes of water.

Furthermore, water levels noted on the borehole and trial pit logs do not generally give an accurate indication of the actual groundwater conditions as the borehole or trial pit is rarely left open for sufficient time for the water level to reach equilibrium.

Also, during boring procedures, a permeable stratum may have been sealed off by the borehole casing, or water may have been added to aid drilling. Therefore, an extended period of groundwater monitoring using any constructed standpipes is required to provide more accurate information regarding groundwater conditions. Finally, groundwater levels vary with time of year, rainfall or any nearby construction sites.

Pumping tests would be required to determine likely seepage rates and persistence into excavations taken below the groundwater level. Deep trial pits also aid estimation of seepage rates.

As discussed previously, ingresses were recorded in all the boreholes, although these were sealed off shortly after the water entering the borehole. Three trial pits also recorded slow to medium ingresses between 1.30mbgl and 2.70mbgl. Finally, three of the soakaways also recorded medium ingresses between 0.80mbgl and 1.40mbgl.

There is always considerable uncertainty as to the likely rates of water ingress into excavations in cohesive soil sites due to the possibility of localised unforeseen sand and gravel lenses acting

as permeable conduits for unknown volumes of water. Based on this information at the exploratory hole locations to date, it is considered likely that any shallow ingress (less than 2.00mbgl) into excavations of the CLAY will be slow to medium.

If groundwater is encountered during excavations then mechanical pumps will be required to remove the groundwater from sumps. Sumps should be carefully located and constructed to ensure that groundwater is efficiently removed from excavations and trenches.

6.3. Pavement Design

The plate test results in Appendix 4 recorded varying values of 3.3% to 34.3%. Compaction of the capping and subbase should be in line with TII Series 600 Earthworks Design.

The plate tests were completed at 0.50mbgl and 1.20mbgl and inspection of the formation strata should be completed prior to construction of the pavement. Once the exact formation levels are finalised then additional in-situ testing could be completed to assist with the detailed pavement design.

6.4. Soakaway Tests

The soakaway tests at SA01, SA02 and SA04 failed the specification as water entered the excavations between 0.80mbgl and 1.40mbgl and this indicates that the soils are already saturated and therefore, unsuitable for soakaway design.

The soakaway test at SA03 failed the specification as the water level did not fall sufficiently enough to complete the test. The BRE Digest stipulates that the pit should half empty within 24hrs, and extrapolation indicates this condition would not be satisfied. The tests were terminated at the end of the first (of a possible three) fill/empty cycle since further testing would give even slower fall rates due to increased soil saturation.

6.5. Contamination

Environmental testing was completed on five samples from the investigation and the results are presented in Appendix 7. For material to be removed from site, Suite I testing was carried out to determine if the material is hazardous or non-hazardous and then the leachate results were compared with the published waste acceptance limits of BS EN 12457-2 to determine whether the material on the site could be accepted as ‘inert material’ by an Irish landfill.

The Waste Classification Report in Appendix 8, created using HazWasteOnline™ software, shows that the material tested can be classified as non-hazardous material with waste code 17-05-04.

Following this analysis of the solid test results, the leachate WAC analysis results were analysed in accordance with 2003/33/EC inert criteria and this shows that the soils would be able to be treated as Inert Waste. The selenium result from TP01 was 0.0005mg/kg above the threshold so although this fails the inert levels, it is very close to passing the specification.

Finally, a soil recovery facility screening has been completed and this is provided in Appendix 9. The soils failed the specifications and therefore, are unsuitable for these types of facility.

Five samples were tested for analysis but it cannot be discounted that any localised contamination may have been missed. Any MADE GROUND excavated on site should be stockpiled separately to natural soils to avoid any potential cross contamination of the soils. Additional testing of these soils may be requested by the individual landfill before acceptance and a testing regime designed by an environmental engineer would be recommended to satisfy the landfill.

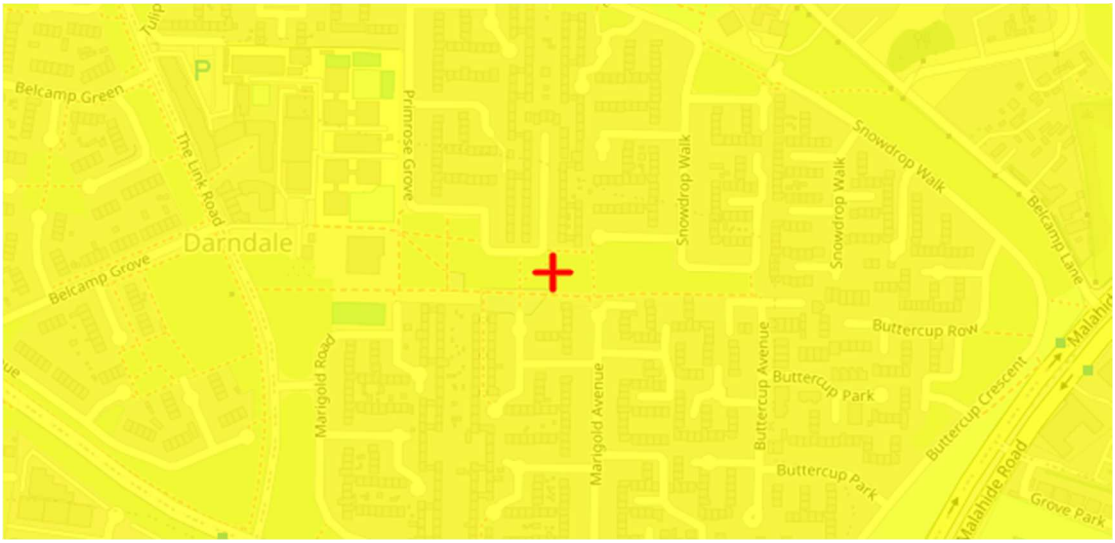
6.6. Aggressive Ground Conditions

The chemical test results in Appendix 6 indicate a general pH value between 8.75 and 8.93, which is close to neutral and below the level of 9.

The maximum value obtained for water soluble sulphate was 130mg/l as SO_3. The BRE Special Digest 1:2005 – '*Concrete in Aggressive Ground*' guidelines require SO_4 values and after conversion ($SO_4 = SO_3 \times 1.2$), the maximum value of 156mg/l shows Class 1 conditions and no special precautions are required.

6.7. Radon Gas

The Environmental Protection Agency (EPA) has recently updated the Radon gas exposure map and this is available to view on the EPA website. This shows the possible exposure to radon gas with the bedrock geology, subsoil geology, soil permeability and aquifer type analysed to produce the map. The map below shows that part of the site falls within the lowest level of 1 in 20 homes are at risk of radon exposure. Measures should be taken in the form of radon protection barriers from radon exposure in the new structures.



EPA map identifying possible Radon exposure.

https://gis.epa.ie/EPAMaps/Radon?&lid=EPA:RadonRiskMapofIreland

Appendix 1

Cable Percussive Borehole Logs

Contract No: 6597	**Cable Percussion Borehole Log**	Borehole No: **BH01**

Contract:	Priorswood	Easting:	720212.623	Date Started:	05/12/2025
Location:	Darndale, Dublin 17	Northing:	740496.244	Date Completed:	05/12/2025
Client:	Dublin City Centre	Elevation:	35.17	Drilled By:	D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
0.5	0.30	TOPSOIL.		35.0	34.87	1.00	B	DC01	▼	
1.0		Soft becoming firm brown slightly sandy slightly gravelly silty CLAY with medium cobble content.		34.5		1.00	C	N=7 (1,1/2,1,2,2)		
1.5				34.0		1.50	C	N=10 (2,2/2,2,3,3)		
2.0	1.90	Stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.		33.5	33.27	2.00	B	DC02		
2.5				33.0		2.00	C	N=20 (3,4/5,5,5,5)		
3.0	3.10	Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.		32.5	32.07	3.00	B	DC03		
3.5				32.0		3.00	C	N=28 (4,5/6,7,7,8)		
4.0				31.5		4.00	B	DC04		
4.5				31.0		4.00	C	N=31 (5,6/7,7,8,9)		
5.0				30.5		5.00	B	DC05		
5.5				30.0		5.00	C	N=34 (6,7/8,8,9,9)		
6.0				29.5		6.00	B	DC06		
6.5				29.0		6.00	C	N=41 (7,9/10,11,10,10)		
7.0	7.10			28.5	28.07	7.00	B	DC07		
7.5	7.20	Obstruction - boulders. End of Borehole at 7.20m		28.0	27.97	7.00	C	50 (25 for 85mm/50 for 15mm)		
8.0				27.5		7.20	C	50 (25 for 5mm/50 for 5mm)		
8.5				27.0						
				26.5						

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
7.10	7.20	01:30	1.30	1.10	1.50	05/12	7.20	Dry				0.00	7.20	Arisings	Cable percussive borehole terminated at 7.20mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6597	**Cable Percussion Borehole Log**				Borehole No: **BH02**
Contract:	Priorswood	Easting:	720242.354	Date Started:	04/12/2025
Location:	Darndale, Dublin 17	Northing:	740475.141	Date Completed:	04/12/2025
Client:	Dublin City Centre	Elevation:	35.01	Drilled By:	D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			34.91					
0.5		Firm becoming stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.		34.5						
1.0				34.0		1.00	B	DC08		
						1.00	C	N=14 (3,3/3,4,3,4)		
1.5				33.5		1.50	C	N=20 (4,4/5,5,5,5)		
2.0				33.0		2.00	B	DC09		
						2.00	C	N=18 (3,4/4,4,5,5)		
2.5				32.5						
	2.70	Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.			32.31					
3.0				32.0		3.00	B	DC10		
						3.00	C	N=27 (5,5/6,7,7,7)		
3.5				31.5						
4.0				31.0		4.00	B	DC11		
						4.00	C	N=36 (5,7/7,8,10,11)		
4.5				30.5						
5.0				30.0		5.00	B	DC12		
						5.00	C	N=34 (5,6/8,8,9,9)		
5.5				29.5						
6.0				29.0		6.00	B	DC13		
						6.00	C	N=40 (6,8/9,9,10,12)		
6.5				28.5						
7.0				28.0		7.00	B	DC14		
						7.00	C	N=49 (7,9/11,12,12,14)		
7.5				27.5						
	7.70	Obstruction - boulders.			27.31					
	7.80	End of Borehole at 7.80m			27.21	7.80	C	50 (25 for 5mm/50 for 5mm)		
8.0				27.0						
8.5				26.5						

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
7.70	7.80	01:30	1.00	0.60	1.50	04/12	7.80	Dry				0.00	7.80	Arisings	Cable percussive borehole terminated at 7.80mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6597	**Cable Percussion Borehole Log**			Borehole No: **BH03**
Contract:	Priorswood	Easting:	720217.787	Date Started: 05/12/2025
Location:	Darndale, Dublin 17	Northing:	740459.223	Date Completed: 05/12/2025
Client:	Dublin City Centre	Elevation:	34.76	Drilled By: D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status: FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
		TOPSOIL.		34.5	34.46					
	0.30	Firm becoming stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.		34.0		1.00	B	DC15		
0.5						1.00	C	N=11 (1,2/2,3,3,3)		
1.0				33.5		1.50	C	N=14 (2,3/3,4,3,4)		
1.5				33.0						
2.0						2.00	B	DC16		
2.5				32.5		2.00	C	N=18 (2,3/4,4,5,5)		
	2.90	Very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.		32.0	31.86					
3.0						3.00	B	DC17		
3.5				31.5		3.00	C	N=31 (5,6/7,8,8,8)		
4.0				31.0		4.00	B	DC18		
4.5				30.5		4.00	C	N=37 (4,6/8,9,9,11)		
5.0				30.0		5.00	B	DC19		
5.5				29.5		5.00	C	N=44 (7,7/8,10,11,15)		
6.0				29.0		6.00	B	DC20		
6.5				28.5		6.00	C	N=50 (7,8/50 for 255mm)		
7.0				28.0		7.00	B	DC21		
7.5				27.5		7.00	C	50 (20 for 75mm/50 for 210mm)		
	7.80	Obstruction - boulders.		27.0	26.96					
8.0	7.90	End of Borehole at 7.90m			26.86	7.90	C	50 (25 for 5mm/50 for 5mm)		
8.5				26.5						
				26.0						

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
7.80	7.90	01:30	1.40	1.10	1.90	05/12	7.90	Dry				0.00	7.90	Arisings	Cable percussive borehole terminated at 7.90mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6597	**Cable Percussion Borehole Log**				Borehole No: **BH04**
Contract:	Priorswood	Easting:	720301.387	Date Started:	04/12/2025
Location:	Darndale, Dublin 17	Northing:	740470.711	Date Completed:	04/12/2025
Client:	Dublin City Centre	Elevation:	35.35	Drilled By:	D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
		TOPSOIL.								
	0.40	Firm becoming stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.			34.95					
						1.00	B	DC22		
						1.00	C	N=13 (2,2/3,3,3,4)		
						1.50	C	N=15 (2,3/3,4,4,4)		
						2.00	B	DC23		
						2.00	C	N=21 (3,3/4,5,6,6)		
	2.50	Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.			32.85					
						3.00	B	DC24		
						3.00	C	N=28 (3,5/6,6,7,9)		
						4.00	B	DC25		
						4.00	C	N=33 (6,6/7,8,9,9)		
						5.00	B	DC26		
						5.00	C	N=45 (6,8/9,10,11,15)		
						6.00	B	DC27		
						6.00	C	N=44 (7,7/9,10,13,12)		
						7.00	B	DC28		
	7.20				28.15	7.00	C	50 (9,10/50 for 50mm)		
	7.30	Obstruction - boulders. End of Borehole at 7.30m			28.05	7.30	C	50 (25 for 5mm/50 for 5mm)		

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
7.20	7.30	01:30	0.90	0.60	1.60	04/12	7.30	Dry				0.00	7.30	Arisings	Cable percussive borehole terminated at 7.30mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6597	**Cable Percussion Borehole Log**				Borehole No: **BH05**
Contract:	Priorswood	Easting:	720342.309	Date Started:	08/12/2025
Location:	Darndale, Dublin 17	Northing:	740455.769	Date Completed:	08/12/2025
Client:	Dublin City Centre	Elevation:	34.73	Drilled By:	D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			34.63					
		Firm brown slightly sandy slightly gravelly silty CLAY with high cobble content.		34.5						
0.5										
				34.0						
1.0						1.00	B	DC29		
						1.00	C	N=9 (1,1/3,2,2,2)		
				33.5						
1.5						1.50	C	N=10 (1,1/2,3,3,2)		
				33.0						
2.0						2.00	B	DC30		
						2.00	C	N=14 (2,2/3,3,4,4)		
				32.5						
	2.40				32.33					
2.5		Very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.								
				32.0						
3.0						3.00	B	DC31		
						3.00	C	N=30 (5,6/7,7,8,8)		
				31.5						
3.5										
				31.0						
4.0						4.00	B	DC32		
						4.00	C	N=36 (5,7/8,9,10,9)		
				30.5						
4.5										
				30.0						
5.0						5.00	B	DC33		
						5.00	C	N=40 (7,7/9,9,10,12)		
				29.5						
5.5										
				29.0						
6.0						6.00	B	DC34		
						6.00	C	N=47 (7,8/10,12,12,13)		
				28.5						
6.5										
				28.0						
	6.90				27.83					
7.0	7.00	Obstruction - boulders.			27.73	7.00	B	DC35		
		End of Borehole at 7.00m				7.00	C	50 (25 for 5mm/50 for 5mm)		
				27.5						
7.5										
				27.0						
8.0										
				26.5						
8.5										
				26.0						

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
6.90	7.00	01:30	0.40	0.20	1.40	08/12	7.00	Dry				0.00	7.00	Arisings	Cable percussive borehole terminated at 7.00mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6597	**Cable Percussion Borehole Log**				Borehole No: **BH06**
Contract:	Priorswood	Easting:	720365.658	Date Started:	08/12/2025
Location:	Darndale, Dublin 17	Northing:	740479.453	Date Completed:	08/12/2025
Client:	Dublin City Centre	Elevation:	34.54	Drilled By:	D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			34.44					
		Soft becoming stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.		34.0						
1.0				33.5		1.00	B	DC36		
						1.00	C	N=10 (1,2/2,2,3,3)		
1.5				33.0		1.50	C	N=12 (1,2/3,3,3,3)		
2.0				32.5		2.00	B	DC37		
						2.00	C	N=15 (2,2/3,4,3,5)		
2.5	2.50	Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.		32.0	32.04					
3.0				31.5		3.00	B	DC38		
						3.00	C	N=27 (5,6/7,7,6,7)		
3.5				31.0						
4.0				30.5		4.00	B	DC39		
						4.00	C	N=38 (3,6/7,8,10,13)		
4.5				30.0						
5.0				29.5		5.00	B	DC40		
						5.00	C	N=50 (6,7/50 for 275mm)		
5.5				29.0						
6.0				28.5		6.00	B	DC41		
						6.00	C	N=50 (8,9/50 for 250mm)		
6.5				28.0						
7.0				27.5		7.00	B	DC42		
						7.00	C	50 (9,10/50 for 185mm)		
7.5				27.0						
8.0	8.00	Obstruction - boulders.		26.5	26.54					
	8.10	End of Borehole at 8.10m			26.44	8.10	C	50 (25 for 5mm/50 for 5mm)		
8.5				26.0						

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
8.00	8.10	01:30	0.30	0.30	1.50	08/12	8.10	Dry				0.00	8.10	Arisings	Cable percussive borehole terminated at 8.10mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6597	**Cable Percussion Borehole Log**			Borehole No: **BH07**
Contract:	Priorswood	Easting:	720398.191	Date Started: 10/12/2025
Location:	Darndale, Dublin 17	Northing:	740460.507	Date Completed: 10/12/2025
Client:	Dublin City Centre	Elevation:	34.75	Drilled By: D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status: FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			34.65					
0.5		Grey brown slightly sandy gravelly silty CLAY with high cobble content.		34.5						
	0.60	Firm brown slightly sandy slightly gravelly silty CLAY with high cobble content.			34.15					
1.0				34.0		1.00	B	DC43		
						1.00	C	N=9 (1,1/2,2,3,2)		
1.5				33.5		1.50	C	N=11 (1,2/2,3,3,3)		
2.0				33.0		2.00	B	DC44		
						2.00	C	N=15 (2,3/3,3,4,5)		
	2.40	Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.		32.5	32.35					
2.5				32.0						
3.0						3.00	B	DC45		
				31.5		3.00	C	N=24 (3,5/5,6,6,7)		
3.5				31.0						
4.0						4.00	B	DC46		
						4.00	C	N=32 (5,6/7,9,8,8)		
4.5				30.5						
5.0				30.0		5.00	B	DC47		
						5.00	C	N=39 (4,6/8,10,9,12)		
5.5				29.5						
6.0				29.0		6.00	B	DC48		
						6.00	C	N=44 (5,7/7,10,12,15)		
6.5				28.5						
7.0				28.0		7.00	B	DC49		
						7.00	C	50 (7,9/50 for 115mm)		
	7.30			27.5	27.45					
7.5	7.40	Obstruction - boulders.			27.35	7.40	C	50 (25 for 5mm/50 for 5mm)		
		End of Borehole at 7.40m		27.0						
8.0										
				26.5						
8.5										
				26.0						

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
7.40	7.40	01:30	1.20	0.90	1.50	10/12	7.40	Dry				0.00	7.40	Arisings	Cable percussive borehole terminated at 7.40mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6597	**Cable Percussion Borehole Log**				Borehole No: **BH08**
Contract:	Priorswood	Easting:	720468.322	Date Started:	09/12/2025
Location:	Darndale, Dublin 17	Northing:	740457.391	Date Completed:	09/12/2025
Client:	Dublin City Centre	Elevation:	34.45	Drilled By:	D. Clarke
Engineer:	Hayes Higgins Partnership	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			34.35					
0.5		Grey brown slightly sandy gravelly silty CLAY with high cobble content.		34.0						
	0.70				33.75					
1.0		Firm brown slightly sandy slightly gravelly silty CLAY with high cobble content.		33.5		1.00	B	DC50		
						1.00	C	N=8 (1,1/2,2,2,2)		
1.5				33.0		1.50	C	N=10 (1,2/2,3,2,3)		
2.0				32.5		2.00	B	DC51		
	2.30				32.15	2.00	C	N=15 (2,2/3,4,4,4)		
2.5		Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.		32.0						
3.0				31.5		3.00	B	DC52		
						3.00	C	N=27 (3,4/6,6,7,8)		
3.5				31.0						
4.0				30.5		4.00	B	DC53		
						4.00	C	N=34 (4,6/8,8,8,10)		
4.5				30.0						
5.0				29.5		5.00	B	DC54		
						5.00	C	N=41 (6,7/9,10,11,11)		
5.5				29.0						
6.0				28.5		6.00	B	DC55		
						6.00	C	N=46 (7,7/8,10,12,16)		
6.5				28.0						
7.0				27.5		7.00	B	DC56		
	7.20				27.25	7.00	C	50 (8,10/50 for 60mm)		
	7.30	Obstruction - boulders.			27.15	7.30	C	50 (25 for 5mm/50 for 5mm)		
7.5		End of Borehole at 7.30m		27.0						
8.0				26.5						
8.5				26.0						

Chiselling: From:	To:	Time:	Water Strikes: Depth:	Rose (20min):	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
7.20	7.30	01:30	1.70	0.90	1.60	09/12	7.30	Dry				0.00	7.30	Arisings	Cable percussive borehole terminated at 7.30mbgl due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Appendix 2

Rotary Corehole Logs

Contract No: 6597	**Rotary Corehole Log**				Corehole No: **RC01**
Contract:	Priorswood	Easting:	720238.464	Date Started:	23/01/2026
Location:	Darndale, Dublin 17	Northing:	740468.200	Date Completed:	23/01/2026
Client:	Dublin City Centre	Elevation:	34.88	Drilled By:	MEDL
Engineer:	Hayes Higgins Partnership	Rig Type:	Sondeq	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples	Rock Indices TCR/%	SCR/%	RQD/%	FI/m	Backfill
0.5 1.0 1.5 2.0 2.5 3.0	3.00	Open hole drilling: Driller reports returns of brown sandy gravelly silty CLAY with cobbles.		34.5 34.0 33.5 33.0 32.5 32.0	31.88						
3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	15.00	Open hole drilling: Driller reports returns of black sandy gravelly silty CLAY with cobbles and boulders. End of Corehole at 15.00m		31.5 31.0 30.5 30.0 29.5 29.0 28.5 28.0 27.5 27.0 26.5 26.0 25.5 25.0 24.5 24.0 23.5 23.0 22.5 22.0 21.5 21.0 20.5 20.0	19.88	N=49 (9,10/11,12,12,14) 50 (12,13/50 for 125mm) 50 (25 for 115mm/50 for 90mm)					

Installation: From:	To:	Pipe Type:	Backfill: From:	To:	Type:	Remarks:
			0.00	15.00	Arisings	-

Contract No: 6597	**Rotary Corehole Log**				Corehole No: **RC02**
Contract:	Priorswood	Easting:	720302.518	Date Started:	26/01/2026
Location:	Darndale, Dublin 17	Northing:	740455.240	Date Completed:	26/01/2026
Client:	Dublin City Centre	Elevation:	35.03	Drilled By:	MEDL
Engineer:	Hayes Higgins Partnership	Rig Type:	Sondeq	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples	Rock Indices TCR/%	SCR/%	RQD/%	FI/m	Backfill
0.5		Open hole drilling: Driller reports returns of brown sandy gravelly silty CLAY with cobbles.		34.5							
1.0				34.0							
1.5				33.5							
2.0				33.0							
2.5	2.50			32.5	32.53						
3.0		Open hole drilling: Driller reports returns of black sandy gravelly silty CLAY with cobbles and boulders.		32.0							
3.5				31.5							
4.0				31.0							
4.5				30.5							
5.0				30.0							
5.5				29.5							
6.0				29.0							
6.5				28.5							
7.0				28.0							
7.5				27.5							
8.0				27.0							
8.5				26.5							
9.0				26.0		N=40 (8,9/9,8,11,12)					
9.5				25.5							
10.0				25.0							
10.5				24.5							
11.0				24.0							
11.5				23.5							
12.0				23.0		50 (10,12/50 for 210mm)					
12.5				22.5							
13.0				22.0							
13.5				21.5							
14.0				21.0							
14.5				20.5							
15.0	15.00	End of Corehole at 15.00m		20.0	20.03	50 (11,12/50 for 190mm)					

Installation: From:	To:	Pipe Type:	Backfill: From:	To:	Type:	Remarks:
			0.00	15.00	Arisings	-

Contract No: 6597	**Rotary Corehole Log**				Corehole No: **RC03**
Contract:	Priorswood	Easting:	720342.848	Date Started:	26/01/2026
Location:	Darndale, Dublin 17	Northing:	740470.675	Date Completed:	26/01/2026
Client:	Dublin City Centre	Elevation:	35.01	Drilled By:	MEDL
Engineer:	Hayes Higgins Partnership	Rig Type:	Sondeq	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples	Rock Indices TCR/%	SCR/%	RQD/%	FI/m	Backfill
0.5		Open hole drilling: Driller reports returns of brown sandy gravelly silty CLAY with cobbles.		34.5							
1.0				34.0							
1.5				33.5							
2.0				33.0							
2.5	2.50	Open hole drilling: Driller reports returns of black sandy gravelly silty CLAY with cobbles and boulders.		32.5	32.51						
3.0				32.0							
3.5				31.5							
4.0				31.0							
4.5				30.5							
5.0				30.0							
5.5				29.5							
6.0				29.0							
6.5				28.5							
7.0				28.0							
7.5				27.5							
8.0				27.0							
8.5				26.5							
9.0				26.0		N=48 (7,9/10,11,13,14)					
9.5				25.5							
10.0				25.0							
10.5				24.5							
11.0				24.0							
11.5				23.5							
12.0				23.0		50 (9,10/50 for 225mm)					
12.5				22.5							
13.0				22.0							
13.5				21.5							
14.0				21.0							
14.5				20.5							
15.0	15.00	End of Corehole at 15.00m		20.0	20.01	50 (10,13/50 for 200mm)					

Installation:			Backfill:			Remarks:
From:	To:	Pipe Type:	From:	To:	Type:	-
			0.00	15.00	Arisings	

Contract No: 6597	**Rotary Corehole Log**				Corehole No: **RC04**
Contract:	Priorswood	Easting:	720400.690	Date Started:	27/01/2026
Location:	Darndale, Dublin 17	Northing:	740477.554	Date Completed:	27/01/2026
Client:	Dublin City Centre	Elevation:	34.67	Drilled By:	MEDL
Engineer:	Hayes Higgins Partnership	Rig Type:	Sondeq	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples	Rock Indices TCR/%	SCR/%	RQD/%	FI/m	Backfill
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	2.50	Open hole drilling: Driller reports returns of brown sandy gravelly silty CLAY with cobbles.		34.5 34.0 33.5 33.0 32.5 32.0 31.5 31.0 30.5 30.0 29.5 29.0 28.5 28.0 27.5 27.0 26.5 26.0 25.5 25.0 24.5 24.0 23.5 23.0 22.5 22.0 21.5 21.0 20.5 20.0	32.17						
		Open hole drilling: Driller reports returns of black sandy gravelly silty CLAY with cobbles and boulders.				50 (10,12/50 for 40mm)					
						50 (11,14/50 for 125mm)					
	15.00	End of Corehole at 15.00m			19.67	50 (25 for 50mm/50 for 20mm)					

Installation: From:	To:	Pipe Type:	Backfill: From:	To:	Type:	Remarks:
			0.00	15.00	Arisings	-

Contract No: 6597	**Rotary Corehole Log**				Corehole No: **RC05**
Contract:	Priorswood	Easting:	720452.929	Date Started:	27/01/2026
Location:	Darndale, Dublin 17	Northing:	740458.170	Date Completed:	27/01/2026
Client:	Dublin City Centre	Elevation:	34.62	Drilled By:	MEDL
Engineer:	Hayes Higgins Partnership	Rig Type:	Sondeq	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples	Rock Indices TCR/%	SCR/%	RQD/%	FI/m	Backfill
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	2.50	Open hole drilling: Driller reports returns of brown sandy gravelly silty CLAY with cobbles.		34.5 34.0 33.5 33.0 32.5 32.0 31.5 31.0 30.5 30.0 29.5 29.0 28.5 28.0 27.5 27.0 26.5 26.0 25.5 25.0 24.5 24.0 23.5 23.0 22.5 22.0 21.5 21.0 20.5 20.0	32.12						
		Open hole drilling: Driller reports returns of black sandy gravelly silty CLAY with cobbles and boulders.				N=50 (8,10/50 for 235mm)					
						50 (25 for 90mm/50 for 20mm)					
	15.00	End of Corehole at 15.00m			19.62	50 (10,12/50 for 155mm)					

Installation: From:	To:	Pipe Type:	Backfill: From:	To:	Type:	Remarks:
			0.00	15.00	Arisings	-

Appendix 3

Trial Pit Logs and Photographs

Contract No: 6597	**Trial Pit Log**				Trial Pit No: **TP01**
Contract:	Priorswood	Easting:	720243.710	Date:	04/12/2025
Location:	Darndale, Dublin 17	Northing:	740494.785	Excavator:	JCB 3CX
Client:	Dublin City Centre	Elevation:	34.96	Logged By:	D. Monaghan
Engineer:	Hayes Higgins Partnership	Dimensions (LxWxD) (m):	3.00 x 0.45 x 3.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.10	MADE GROUND: brown slightly sandy slightly gravelly silty clay with occasional plastic fragments (<1%).			34.86				
0.5				34.5		0.50	B	DM01	
	0.60	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.			34.36				
1.0				34.0		1.00	B	DM02	
1.5				33.5					
2.0				33.0		2.00	B	DM03	
2.5	2.50	Stiff black slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		32.5	32.46				▼
	3.00	**Pit terminated at 3.00m**		32.0	31.96				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	2.50 Slow	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6597	**Trial Pit Log**				Trial Pit No: **TP02**
Contract:	Priorswood	Easting:	720206.753	Date:	04/12/2025
Location:	Darndale, Dublin 17	Northing:	740465.119	Excavator:	JCB 3CX
Client:	Dublin City Centre	Elevation:	35.05	Logged By:	D. Monaghan
Engineer:	Hayes Higgins Partnership	Dimensions (LxWxD) (m):	3.00 x 0.45 x 3.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.		35.0	34.95				
		Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.							
0.5				34.5		0.50	B	DM04	
1.0				34.0		1.00	B	DM05	
1.5				33.5					
2.0				33.0		2.00	B	DM06	
2.5	2.50	Stiff black slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		32.5	32.55				
	3.00	**Pit terminated at 3.00m**			32.05				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6597	**Trial Pit Log**				Trial Pit No: **TP03**
Contract:	Priorswood	Easting:	720259.729	Date:	04/12/2025
Location:	Darndale, Dublin 17	Northing:	740461.410	Excavator:	JCB 3CX
Client:	Dublin City Centre	Elevation:	34.81	Logged By:	D. Monaghan
Engineer:	Hayes Higgins Partnership	Dimensions (LxWxD) (m):	3.00 x 0.45 x 1.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.10	MADE GROUND: brown slightly sandy slightly gravelly silty clay with low cobble content.			34.71				
				34.5					
0.5						0.50	B	DM07	
				34.0					
1.0						1.00	B	DM08	
	1.30	Obstruction - buried wall. **Pit terminated at 1.30m**		33.5	33.51				▼
1.5									
				33.0					
2.0									
				32.5					
2.5									
				32.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Obstruction - buried wall.	Pit walls stable.	1.30 Medium	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6597	**Trial Pit Log**				Trial Pit No: **TP04**
Contract:	Priorswood	Easting:	720322.744	Date:	05/12/2025
Location:	Darndale, Dublin 17	Northing:	740465.762	Excavator:	JCB 3CX
Client:	Dublin City Centre	Elevation:	35.56	Logged By:	D. Monaghan
Engineer:	Hayes Higgins Partnership	Dimensions (LxWxD) (m):	3.00 x 0.45 x 3.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.		35.5	35.46				
		MADE GROUND: brown slightly sandy slightly gravelly silty clay with low cobble content.							
0.5				35.0		0.50	B	DM09	
	0.60	MADE GROUND: black slightly sandy slightly gravelly silty clay with low cobble content.			34.96				
	0.80	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.			34.76				
1.0				34.5		1.00	B	DM10	
1.5				34.0					
2.0				33.5		2.00	B	DM11	
2.5				33.0					
	3.00	**Pit terminated at 3.00m**			32.56				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6597	**Trial Pit Log**				Trial Pit No: **TP05**
Contract:	Priorswood	Easting:	720366.480	Date:	05/12/2025
Location:	Darndale, Dublin 17	Northing:	740452.635	Excavator:	JCB 3CX
Client:	Dublin City Centre	Elevation:	34.45	Logged By:	D. Monaghan
Engineer:	Hayes Higgins Partnership	Dimensions (LxWxD) (m):	3.00 x 0.45 x 3.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.			34.35				
0.5		Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		34.0		0.50	B	DM12	
1.0				33.5		1.00	B	DM13	
1.5				33.0					
2.0				32.5		2.00	B	DM14	
2.5				32.0					▼
	3.00	**Pit terminated at 3.00m**		31.5	31.45				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	2.70 Medium	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6597	**Trial Pit Log**				Trial Pit No: **TP06**
Contract:	Priorswood	Easting:	720438.684	Date:	05/12/2025
Location:	Darndale, Dublin 17	Northing:	740457.047	Excavator:	JCB 3CX
Client:	Dublin City Centre	Elevation:	34.63	Logged By:	D. Monaghan
Engineer:	Hayes Higgins Partnership	Dimensions (LxWxD) (m):	3.00 x 0.45 x 3.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.		34.5	34.53				
0.5		Firm brown slightly sandy slightly gravelly silty CLAY with low cobble and boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles and boulders are angular to subrounded of limestone.		34.0		0.50	B	DM15	
1.0						1.00	B	DM16	
1.5				33.5					
2.0				33.0		2.00	B	DM17	
2.5				32.5					
				32.0					
	3.00	**Pit terminated at 3.00m**			31.63				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

TP01 Sidewall

TP01 Spoil

TP02 Sidewall

TP02 Spoil

TP03 Sidewall

TP03 Spoil

TP04 Sidewall

TP04 Spoil

TP05 Sidewall

TP05 Spoil

TP06 Sidewall

TP06 Spoil

Appendix 4

Plate Test Results

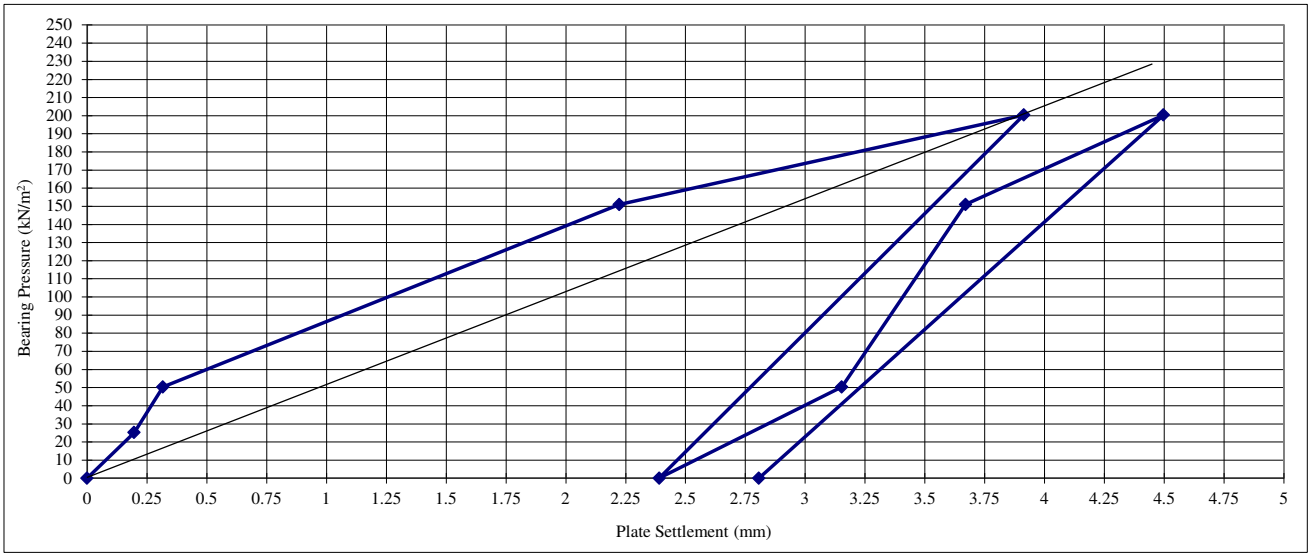
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP01
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*0.50m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**63**
Equivalent CBR for 762mm Plate -Initial loading (%)	**12.7**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**54**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.20
	50	0.32
	151	2.22
	200	3.91
	0.0	2.39
Reload	50	3.15
	151	3.67
	200	4.50
Final Condition	0.0	2.81



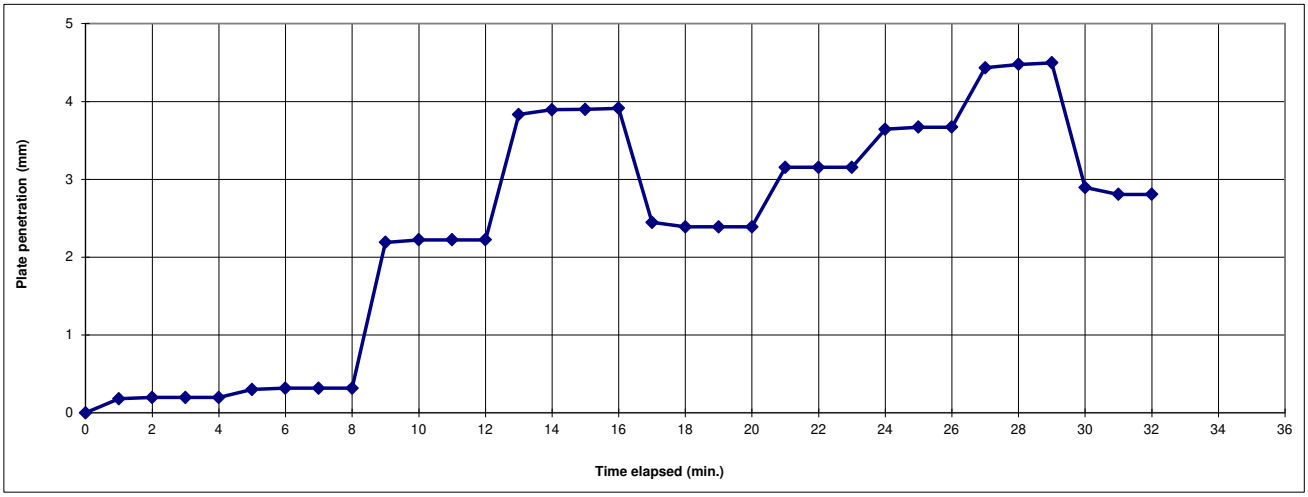


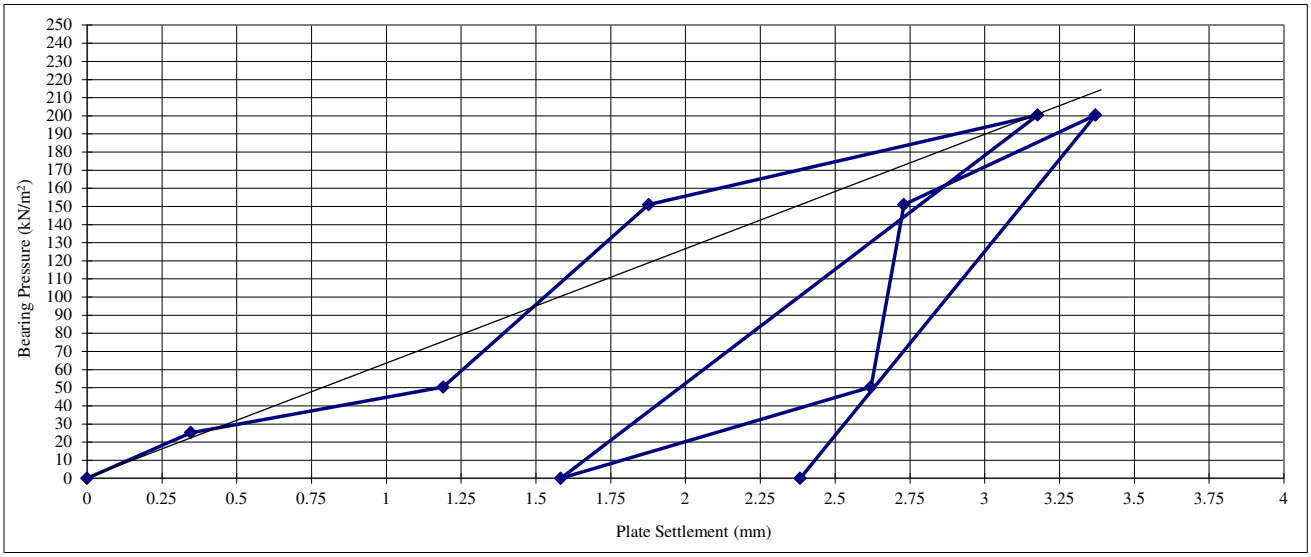
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP01
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*1.20m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**79**
Equivalent CBR for 762mm Plate -Initial loading (%)	**18.7**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**67**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.35
	50	1.19
	151	1.88
	200	3.18
	0.0	1.58
Reload	50	2.62
	151	2.73
	200	3.37
Final Condition	0.0	2.38



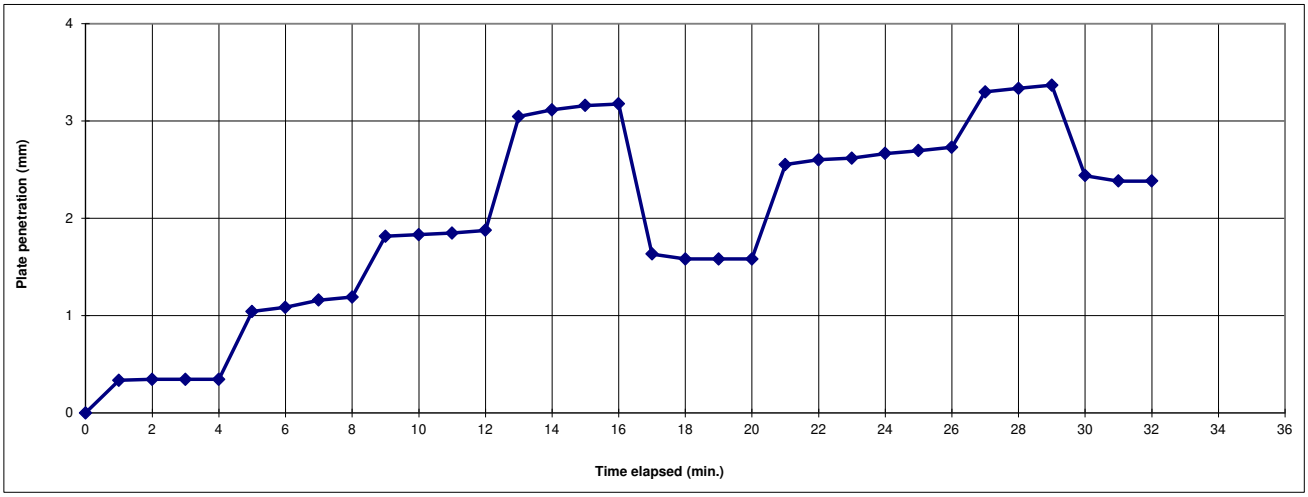


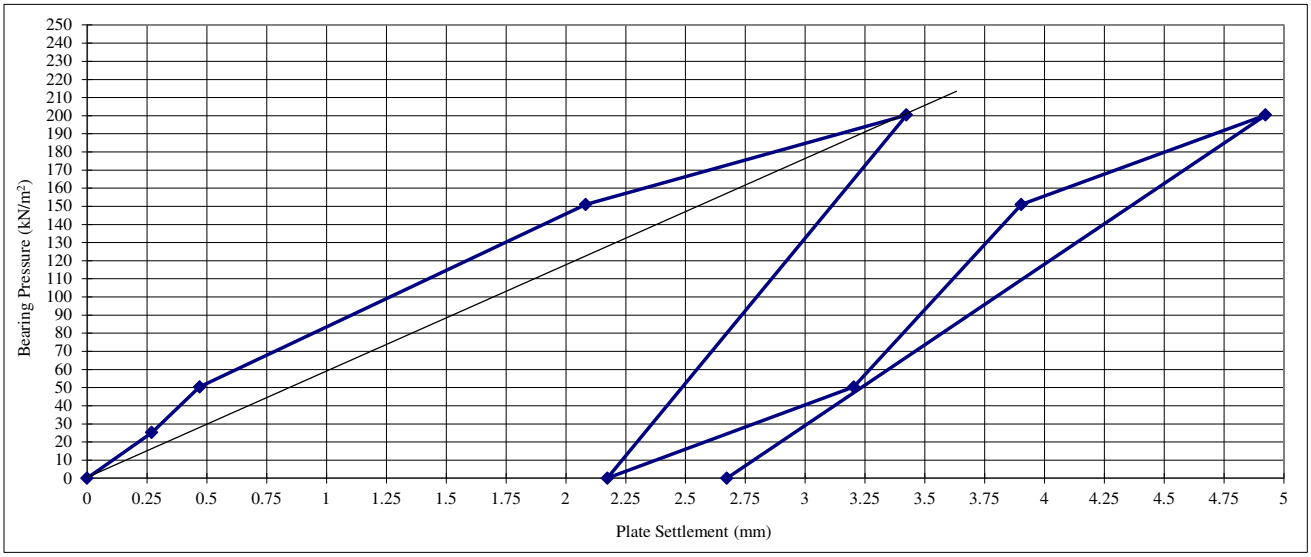
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP02
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*0.50m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**71**
Equivalent CBR for 762mm Plate -Initial loading (%)	**15.6**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**60**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.27
	50	0.47
	151	2.08
	200	3.42
	0.0	2.17
Reload	50	3.20
	151	3.90
	200	4.92
Final Condition	0.0	2.67



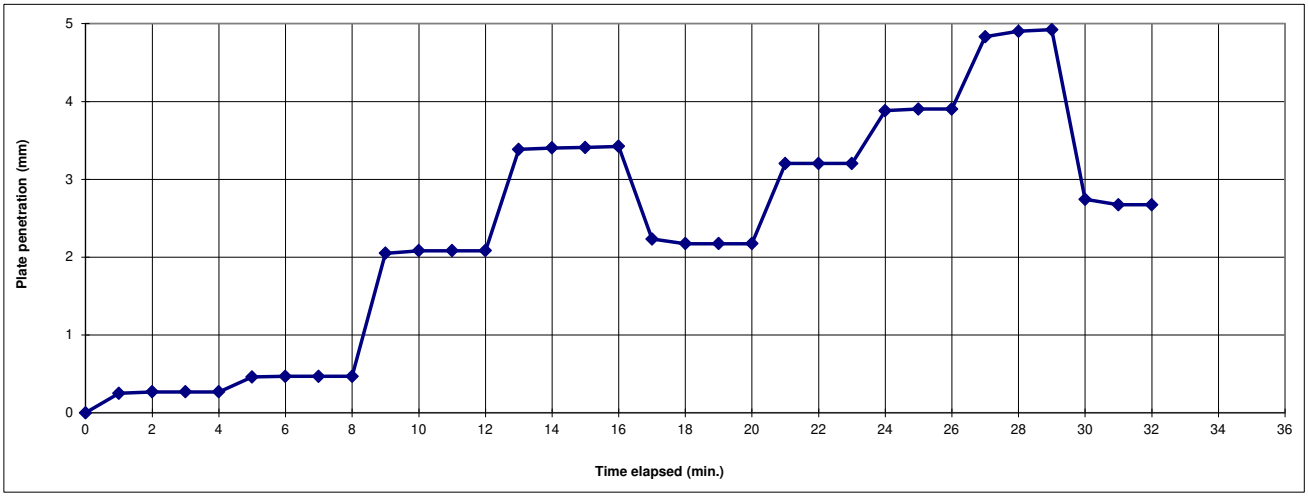


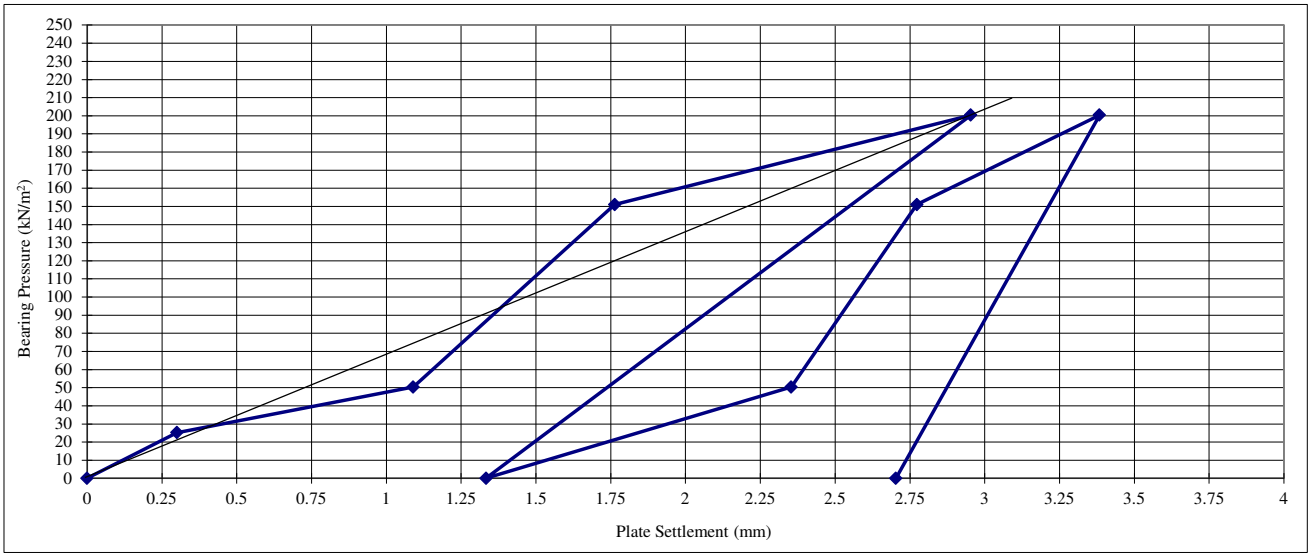
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP02
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*1.20m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**85**
Equivalent CBR for 762mm Plate -Initial loading (%)	**21.3**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**72**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.30
	50	1.09
	151	1.76
	200	2.95
	0.0	1.33
Reload	50	2.35
	151	2.77
	200	3.38
Final Condition	0.0	2.70



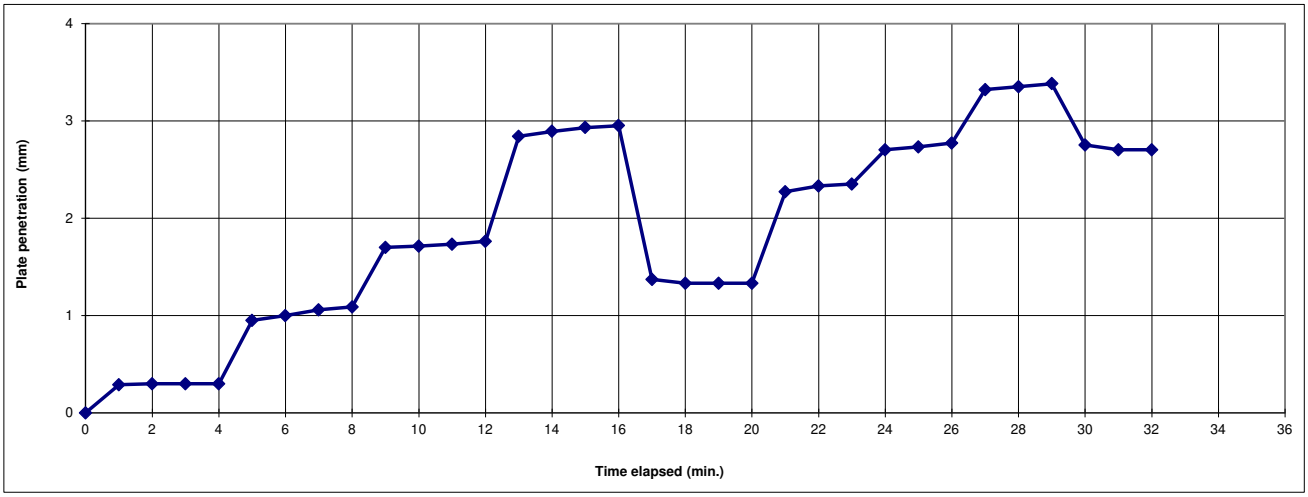


Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

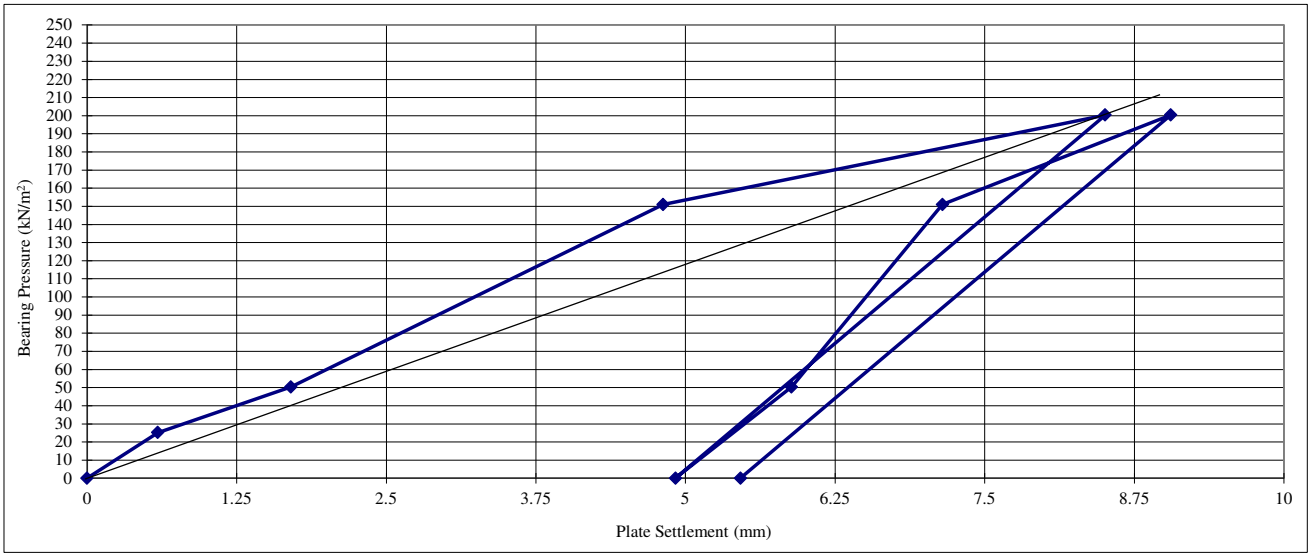
Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP03
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*MADE GROUND:slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*0.50m BGL*

CBR value is as per specification for 762mm Plate

1.25mm settlement (graph) for 762mm Plate (kPa)	**29**
Equivalent CBR for 762mm Plate -Initial loading (%)	**3.3**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**25**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.59
	50	1.70
	151	4.81
	200	8.51
	0.0	4.92
Reload	50	5.89
	151	7.15
	200	9.05
Final Condition	0.0	5.46



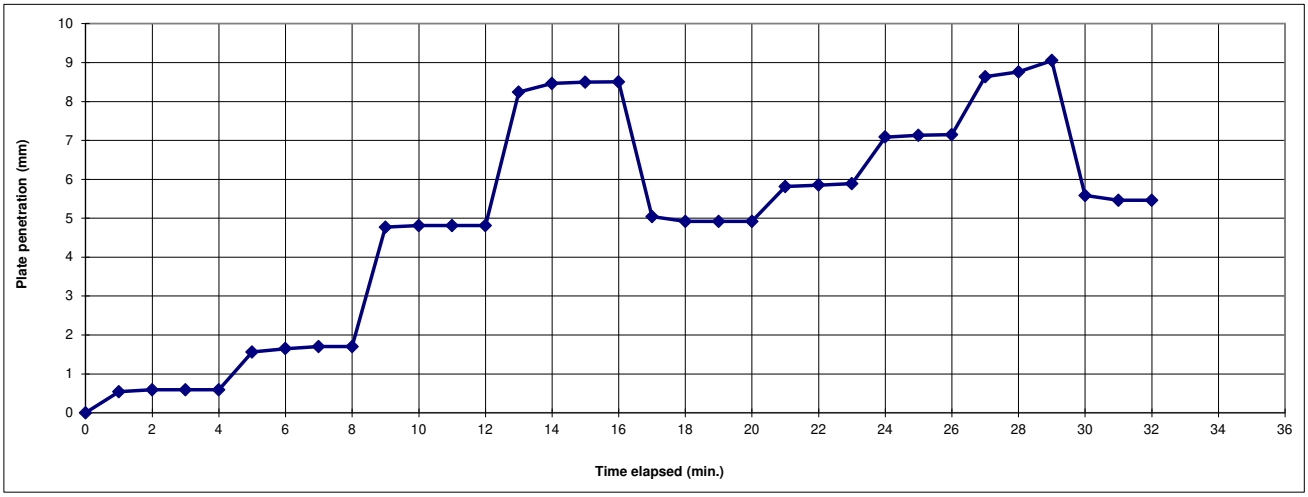


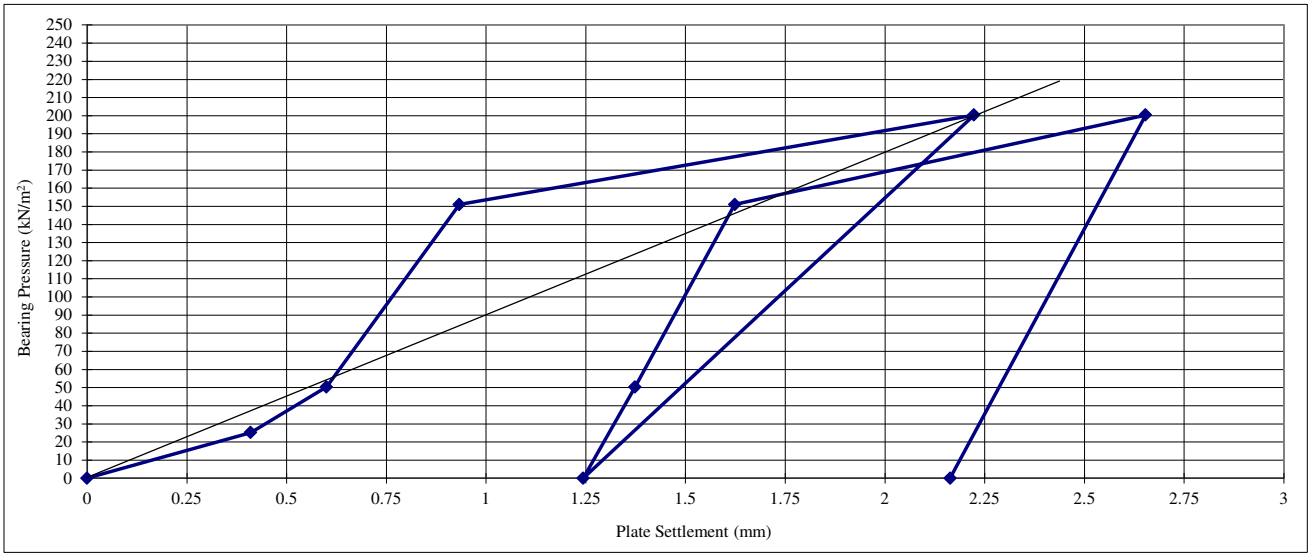
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP03
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*MADE GROUND: slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*1.20m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**112**
Equivalent CBR for 762mm Plate -Initial loading (%)	**34.3**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**95**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.41
	50	0.60
	151	0.93
	200	2.22
	0.0	1.24
Reload	50	1.37
	151	1.62
	200	2.65
Final Condition	0.0	2.16



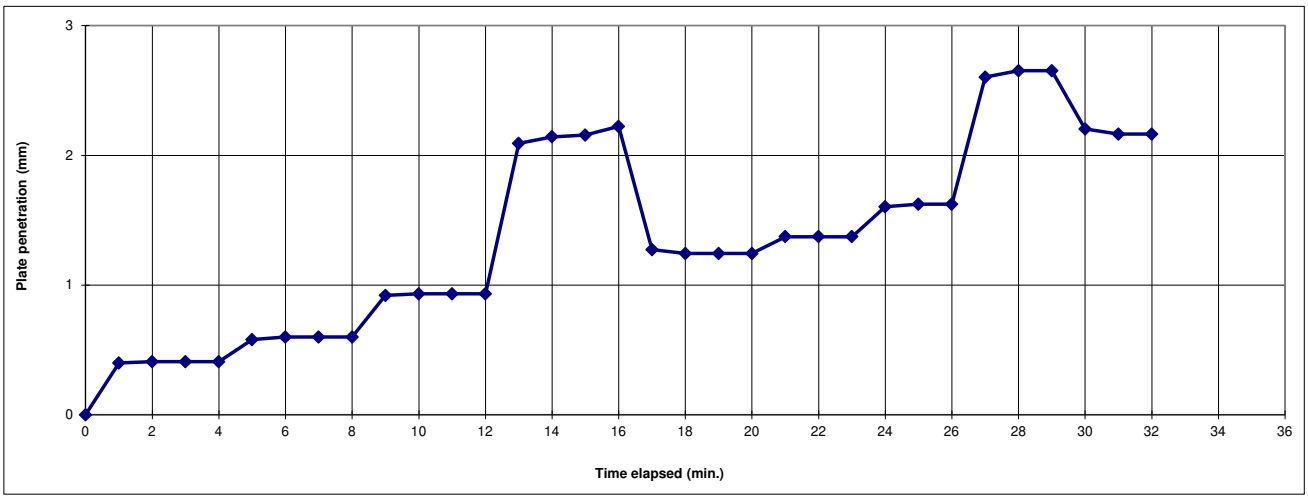


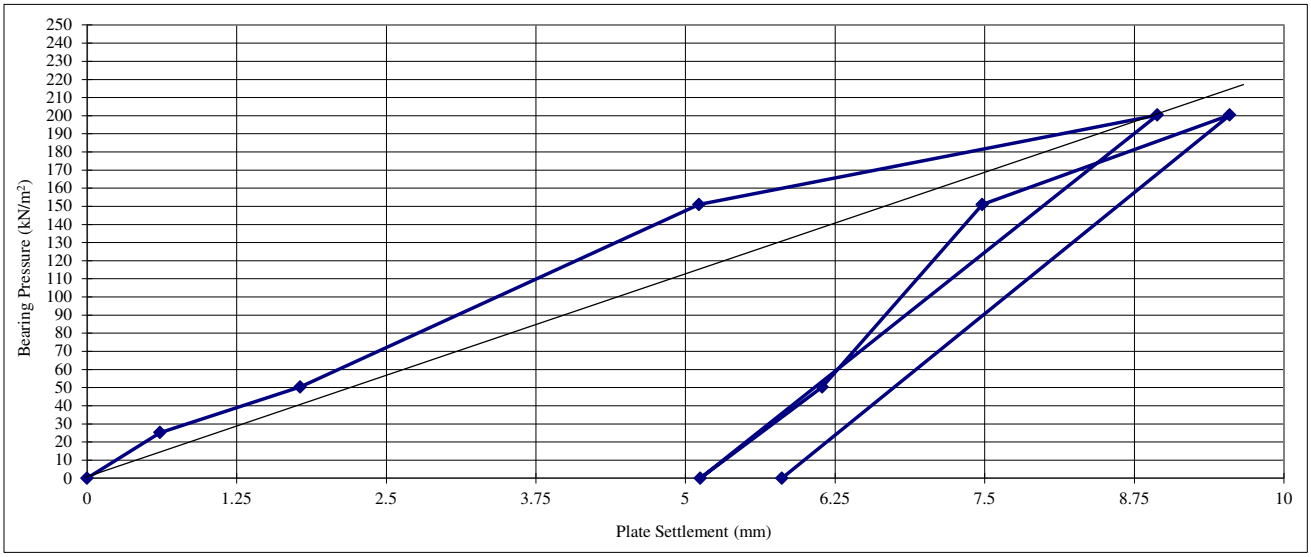
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP04
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*MADE GROUND:slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*0.50m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**28**
Equivalent CBR for 762mm Plate -Initial loading (%)	**3.1**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**24**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.61
	50	1.78
	151	5.11
	200	8.94
	0.0	5.12
Reload	50	6.14
	151	7.48
	200	9.55
Final Condition	0.0	5.81



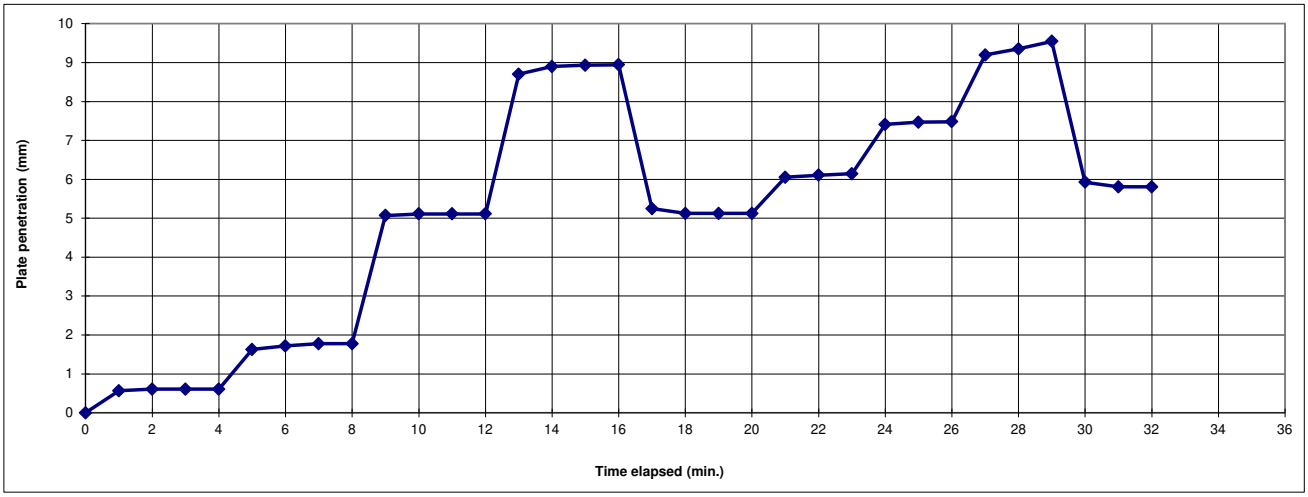


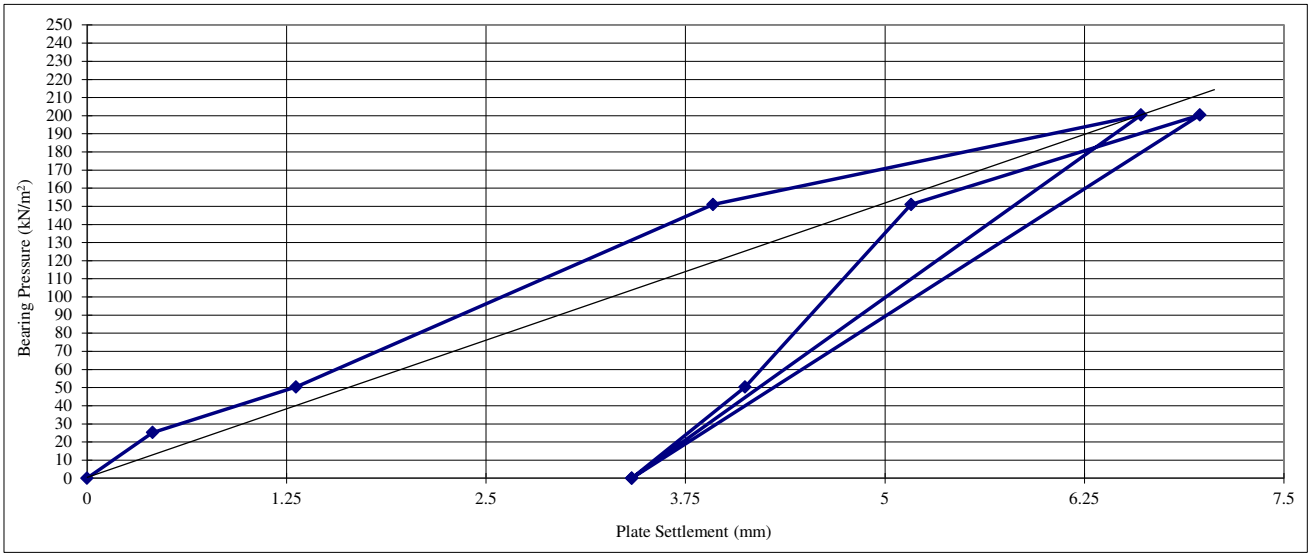
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP04
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*1.20m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**38**
Equivalent CBR for 762mm Plate -Initial loading (%)	**5.3**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**32**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.41
	50	1.31
	151	3.92
	200	6.60
	0.0	3.41
Reload	50	4.12
	151	5.16
	200	6.97
Final Condition	0.0	3.41



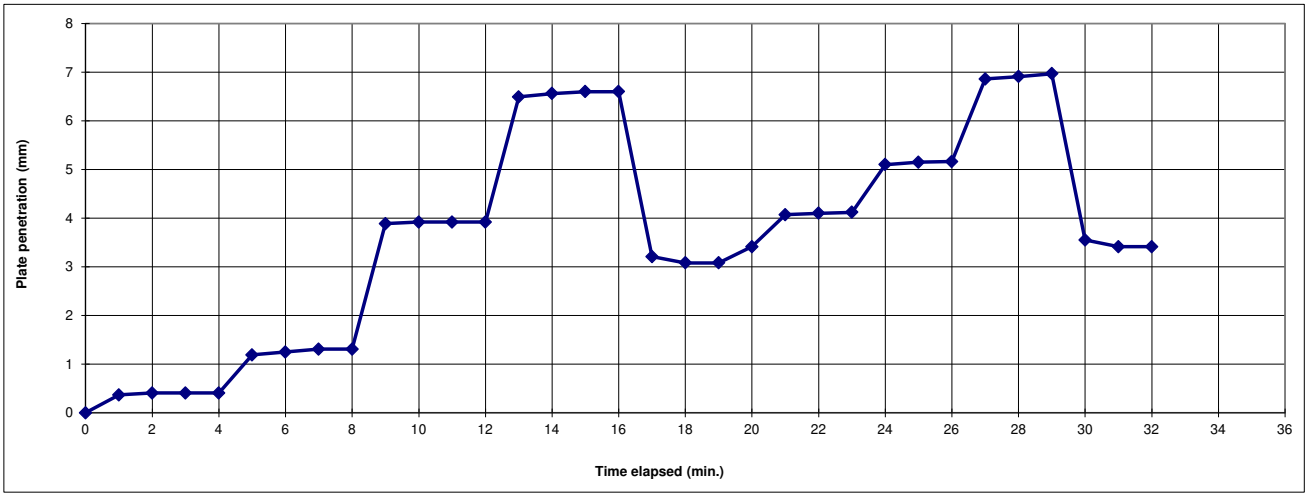


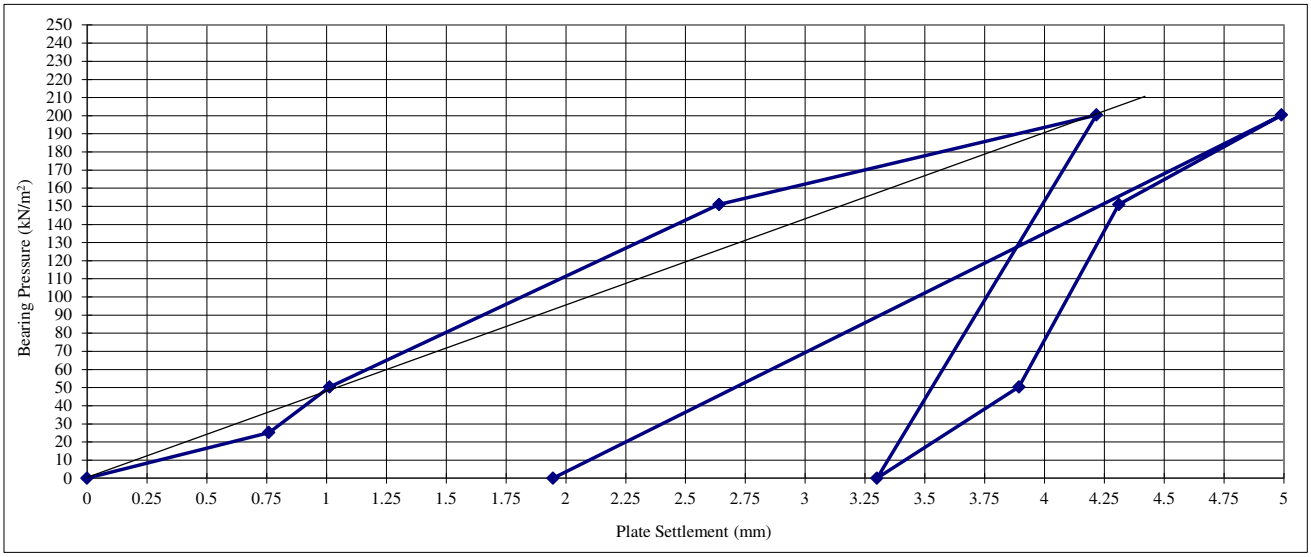
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP05
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*0.50m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**59**
Equivalent CBR for 762mm Plate -Initial loading (%)	**11.3**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**50**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.76
	50	1.01
	151	2.64
	200	4.22
	0.0	3.30
Reload	50	3.89
	151	4.31
	200	4.99
Final Condition	0.0	1.95



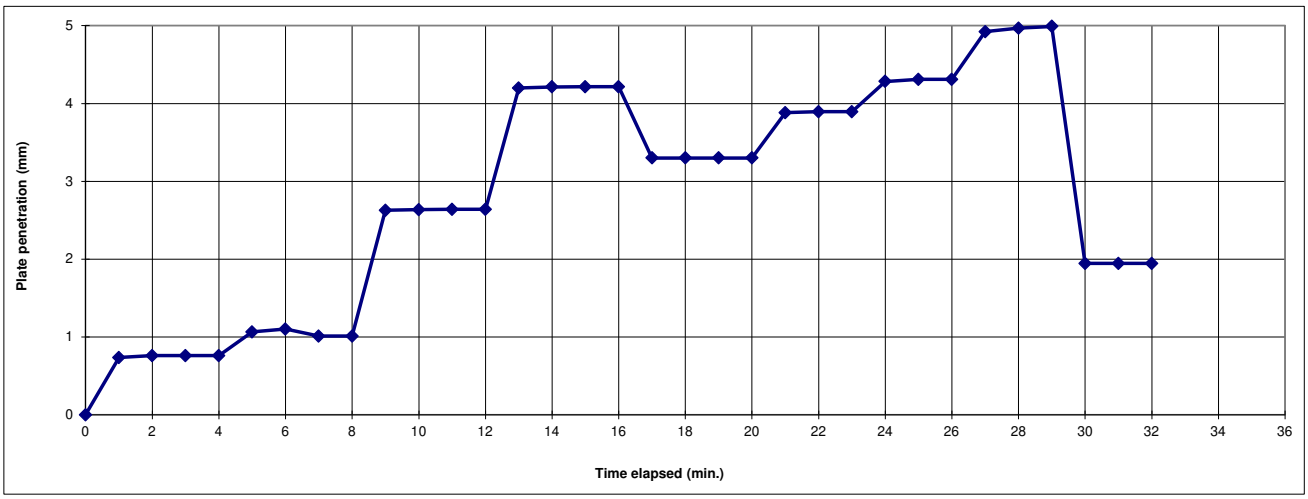


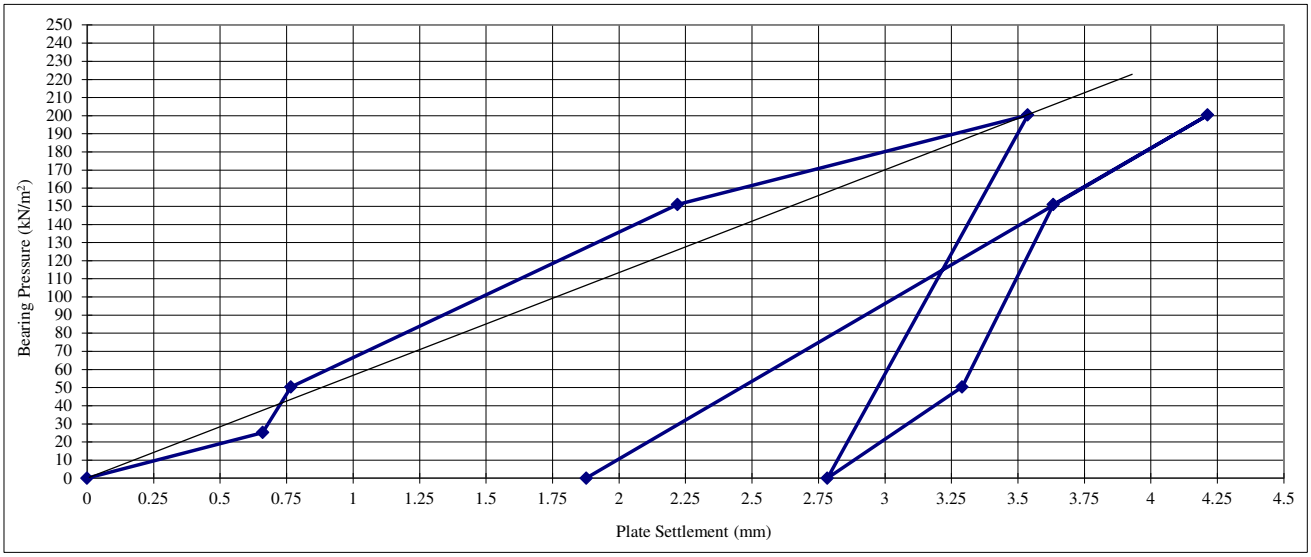
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP05
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*1.20m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**70**
Equivalent CBR for 762mm Plate -Initial loading (%)	**15.2**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**60**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.66
	50	0.77
	151	2.22
	200	3.54
	0.0	2.78
Reload	50	3.29
	151	3.63
	200	4.21
Final Condition	0.0	1.88



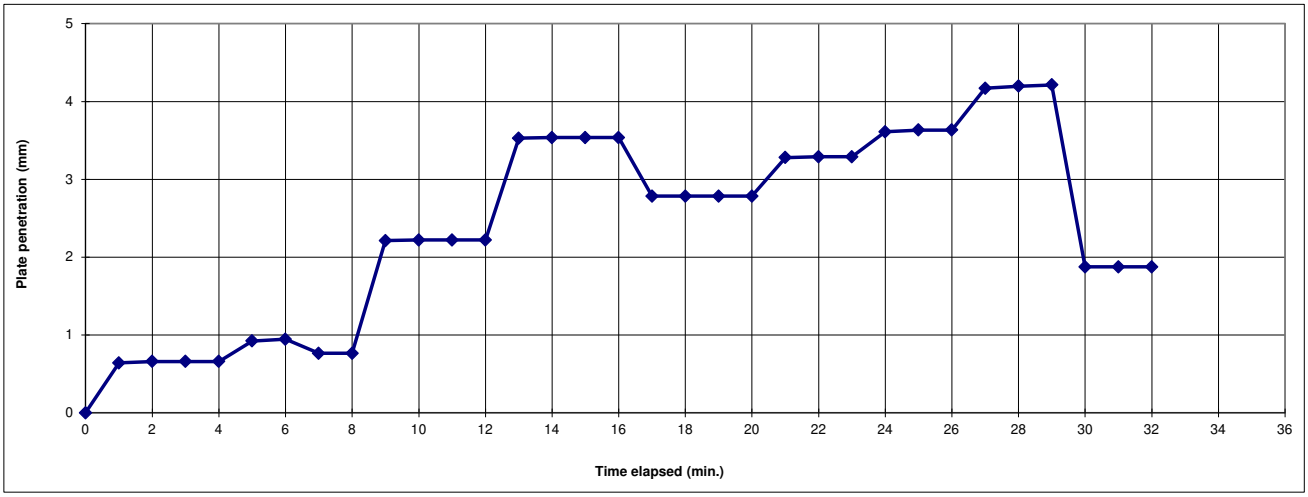


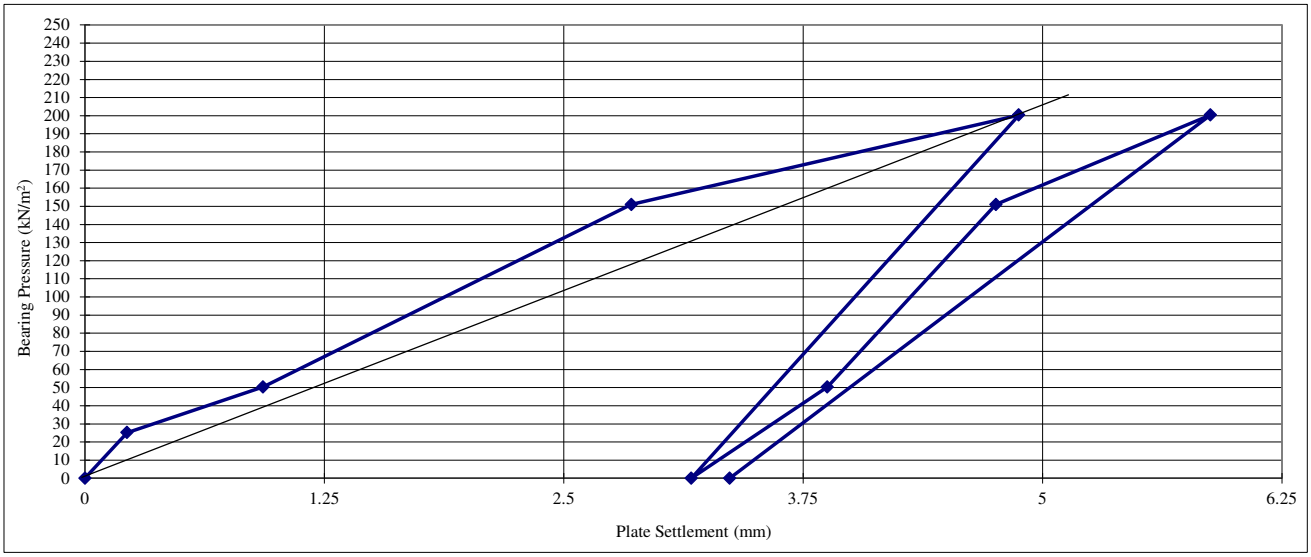
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP06
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*0.50m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**51**
Equivalent CBR for 762mm Plate -Initial loading (%)	**8.8**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**43**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.22
	50	0.93
	151	2.85
	200	4.88
	0.0	3.17
Reload	50	3.88
	151	4.76
	200	5.88
Final Condition	0.0	3.37



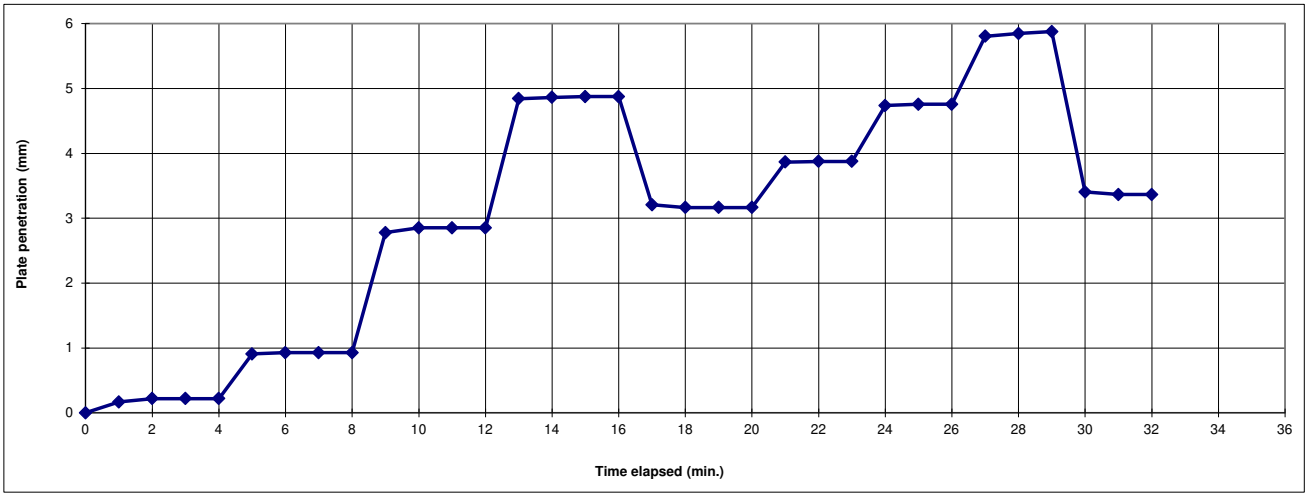


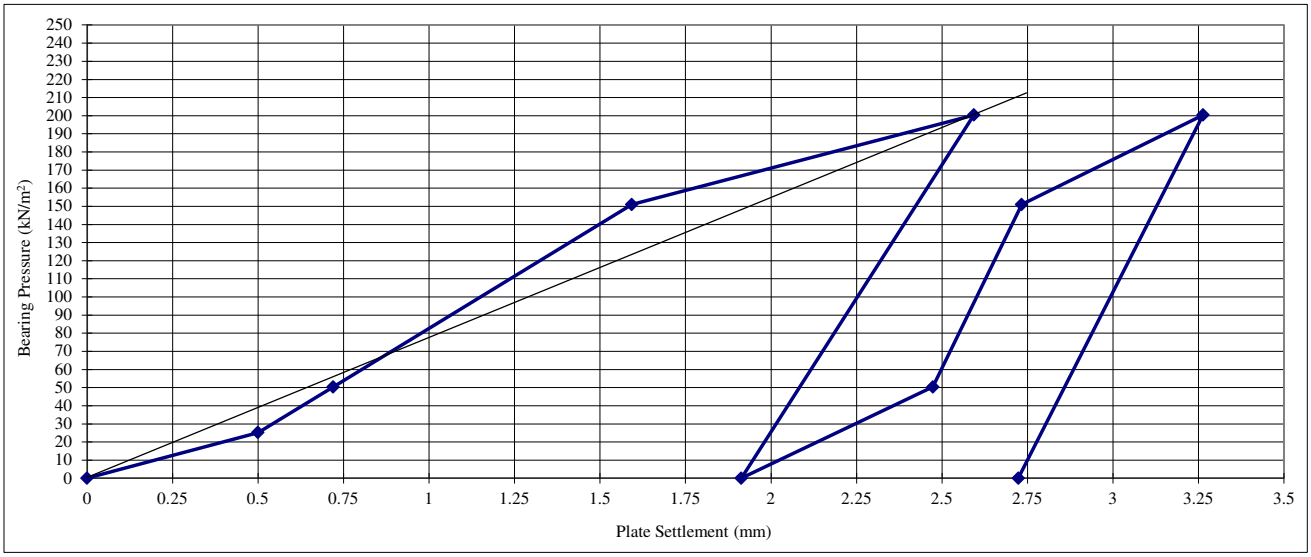
Plate Bearing Test in accordance with BS 1377: Part 9 and Part 2 HD 25/94

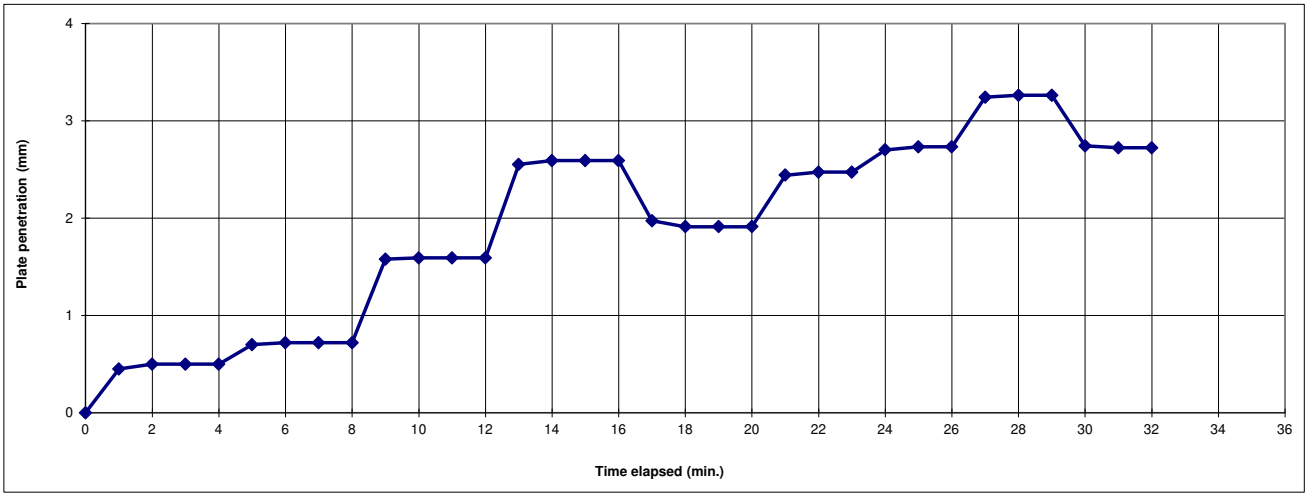
Site Investigations Ltd., Carhugar The Grange, 12th Lock Road, Lucan, Co. Dublin Tel: 01 6108768 Email:info@siteinvestigations.ie

Client	Dublin City Centre
Site	Priorswood, Darndale
Report Date	20-Jan-26
Location:	TP06
Plate Diameter:	*600mm*
Type of reaction Load	*JCB 3CX*
Material Type:	*slightly sandy slightly gravelly silty CLAY*
Depth test carried out:	*1.20m BGL*
CBR value is as per specification for 762mm Plate	

1.25mm settlement (graph) for 762mm Plate (kPa)	**96**
Equivalent CBR for 762mm Plate -Initial loading (%)	**26.3**
Mod. of subgrade Reaction k for 600mm Plate(kPa)	**82**
Correction factor for 600mm Plate	**0.85**

Pressure Stages	Bearing Pressure (kN/m^2)	Plate Settlement (mm)
Initial	0.0	0.00
	25	0.50
	50	0.72
	151	1.59
	200	2.59
	0.0	1.91
Reload	50	2.47
	151	2.73
	200	3.26
Final Condition	0.0	2.72





Appendix 5

Soakaway Test Results and Photographs

SOAKAWAY TEST

Project Reference:	6597
Contract name:	Priorswood
Location:	Darndale, Dublin 17
Test No:	SA01
Date:	04/12/2025

Ground Conditions

From	To	
0.00	0.10	TOPSOIL.
0.10	1.40	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content

Remarks:

Medium water ingress at 1.40mbgl - soils saturated and unsuitable for soakaway design.

Elapsed Time (mins)	Fall of Water (m)
-	-
-	-

Pit Dimensions (m)		
Length (m)	2.50	m
Width (m)	0.45	m
Depth	1.40	m
Water		
Start Depth of Water	-	m
Depth of Water	-	m
75% Full	-	m
25% Full	-	m
75%-25%	-	m
Volume of water (75%-25%)	**-**	m3
Area of Drainage	**-**	m2
Area of Drainage (75%-25%)	**-**	m2
Time		
75% Full	N/A	min
25% Full	N/A	min
Time 75% to 25%	**N/A**	min
Time 75% to 25% (sec)	**N/A**	sec

f = **Fail** **m/min** or **Fail** **m/s**

SOAKAWAY TEST

Project Reference:	6597
Contract name:	Priorswood
Location:	Darndale, Dublin 17
Test No:	SA02
Date:	04/12/2025

Ground Conditions

From	To	
0.00	0.10	TOPSOIL.
0.10	1.30	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content

Remarks:

Medium water ingress at 1.30mbgl - soils saturated and unsuitable for soakaway design.

Elapsed Time (mins)	Fall of Water (m)
-	-
-	-

Pit Dimensions (m)		
Length (m)	2.50	m
Width (m)	0.45	m
Depth	1.30	m
Water		
Start Depth of Water	-	m
Depth of Water	-	m
75% Full	-	m
25% Full	-	m
75%-25%	-	m
Volume of water (75%-25%)	**-**	m3
Area of Drainage	**-**	m2
Area of Drainage (75%-25%)	**-**	m2
Time		
75% Full	N/A	min
25% Full	N/A	min
Time 75% to 25%	**N/A**	min
Time 75% to 25% (sec)	**N/A**	sec

f = **Fail** **m/min** or **Fail** **m/s**

SOAKAWAY TEST

Project Reference:	6597
Contract name:	Priorswood
Location:	Darndale, Dublin 17
Test No:	SA03
Date:	04/12/2025

Ground Conditions

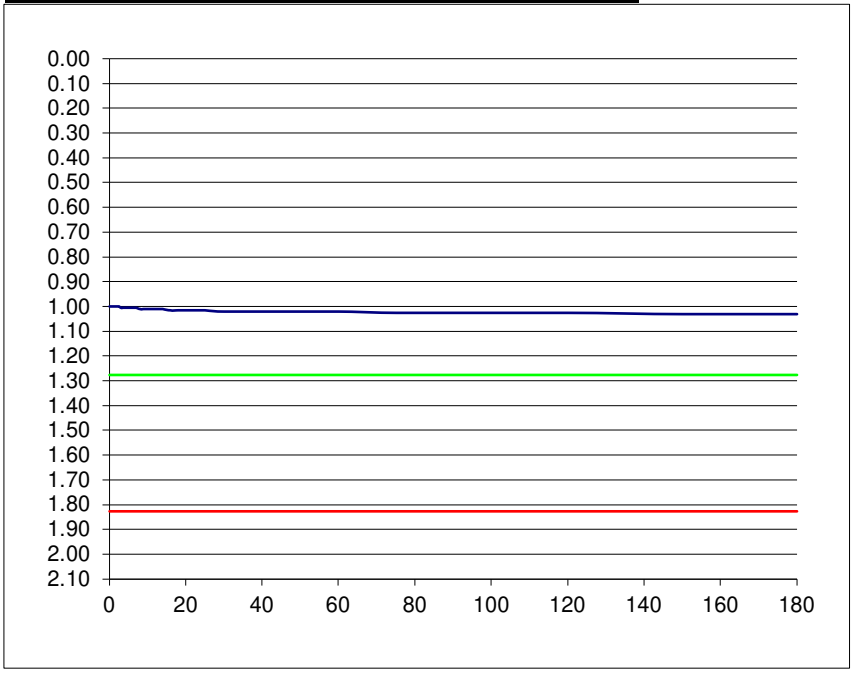
From	To	
0.00	0.10	TOPSOIL.
0.10	2.10	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content.

Remarks:

-

Elapsed Time (mins)	Fall of Water (m)
0	1.00
0.5	1.00
1	1.00
1.5	1.00
2	1.00
2.5	1.00
3	1.01
3.5	1.01
4	1.01
4.5	1.01
5	1.01
6	1.01
7	1.01
8	1.01
9	1.01
10	1.01
12	1.01
14	1.01
16	1.02
18	1.02
20	1.02
25	1.02
30	1.02
40	1.02
50	1.02
60	1.02
75	1.03
90	1.03
120	1.03
150	1.03
180	1.03

Pit Dimensions (m)		
Length (m)	2.50	m
Width (m)	0.45	m
Depth	2.10	m
Water		
Start Depth of Water	1.00	m
Depth of Water	1.10	m
75% Full	1.28	m
25% Full	1.83	m
75%-25%	0.55	m
Volume of water (75%-25%)	**0.62**	m3
Area of Drainage	**12.39**	m2
Area of Drainage (75%-25%)	**4.37**	m2
Time		
75% Full	N/A	min
25% Full	N/A	min
Time 75% to 25%	**N/A**	min
Time 75% to 25% (sec)	**N/A**	sec



f = **Fail** m/min or **Fail** m/s

SOAKAWAY TEST

Project Reference:	6597
Contract name:	Priorswood
Location:	Darndale, Dublin 17
Test No:	SA04
Date:	04/12/2025

Ground Conditions

From	To	
0.00	0.10	TOPSOIL.
0.10	0.80	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content
0.80	1.10	Firm light brown slightly sandy slightly gravelly silty CLAY with low cobble content
1.10	2.10	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content

Remarks:

Medium water ingress at 0.80mbgl - soils saturated and unsuitable for soakaway design.

Elapsed Time (mins)	Fall of Water (m)
-	-
-	-

Pit Dimensions (m)		
Length (m)	2.50	m
Width (m)	0.45	m
Depth	2.10	m
Water		
Start Depth of Water	-	m
Depth of Water	-	m
75% Full	-	m
25% Full	-	m
75%-25%	-	m
Volume of water (75%-25%)	**-**	m3
Area of Drainage	**-**	m2
Area of Drainage (75%-25%)	**-**	m2
Time		
75% Full	N/A	min
25% Full	N/A	min
Time 75% to 25%	**N/A**	min
Time 75% to 25% (sec)	**N/A**	sec

f = **Fail** **m/min** or **Fail** **m/s**

SA01 Sidewall

SA01 Spoil

SA02 Sidewall

SA02 Spoil

SA03 Sidewall

SA03 Spoil

SA04 Sidewall

SA04 Spoil

Appendix 6

Geotechnical Laboratory Test Results

Classification Tests
In accordance with BS 1377: Part 2

Client	Dublin City Centre
Site	Priorswood, Darndale
S.I. File No	6597 / 25
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email:info@siteinvestigations.ie
Report Date	20th January 2026

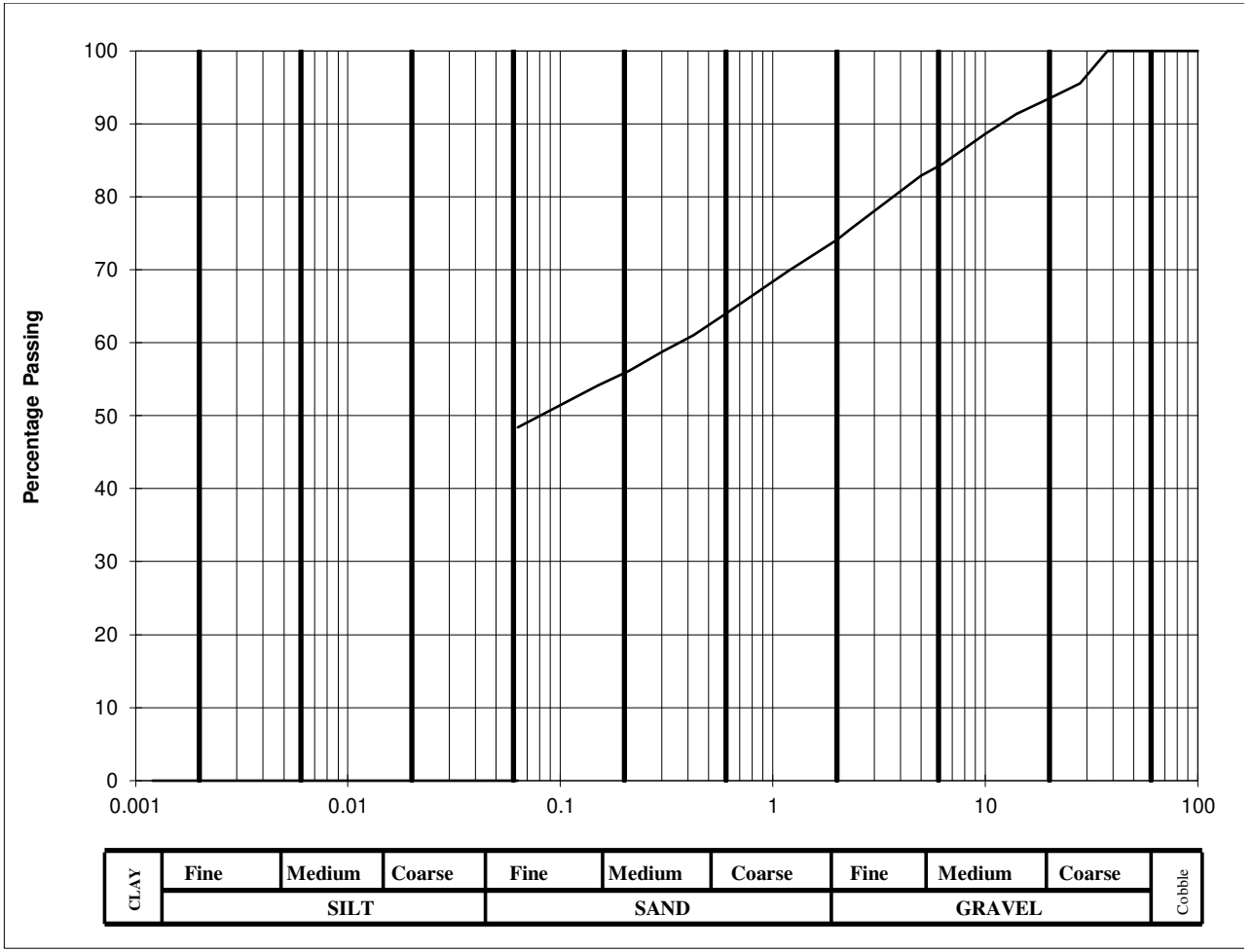
Hole ID	Depth	Sample No	Lab Ref No.	Sample Type	Natural Moisture Content %	Liquid Limit %	Plastic Limit %	Plastic Index %	Bulk Density g/cm^3	Specific gravity	% passing 425um	Comments	**Remarks** **C**=Clay; **M**=Silt **Plasticity**: **L**=Low; **I**=Intermediate; **H**=High; **V**=Very High; **E**=Extremely High
TP01	1.00	DM02	26/079	B	12.6	33	19	14			61.0		CL
TP02	1.00	DM05	26/080	B	23.0	34	20	14			63.9		CL
TP04	1.00	DM10	26/081	B	13.7	32	18	14			58.4		CL
TP05	1.00	DM13	26/082	B	14.9	33	20	13			59.3		CL
TP06	1.00	DM16	26/083	B	17.7	34	19	15			60.1		CL

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	95.5		
20	93.5		
14	91.3		
10	88.6		
6.3	84.5		
5.0	82.9		
2.36	75.7		
2.00	74.1		
1.18	69.8		
0.600	63.9		
0.425	61		
0.300	58.7		
0.212	56.2		
0.150	54.1		
0.063	48		

Cobbles, %	0
Gravel, %	26
Sand, %	26
Clay / Silt, %	48



Client :	Dublin City Centre	Lab. No :	26/079	Hole ID :	TP 01
Project :	Priorswood, Darndale	Sample No :	DM02	Depth, m :	1.00

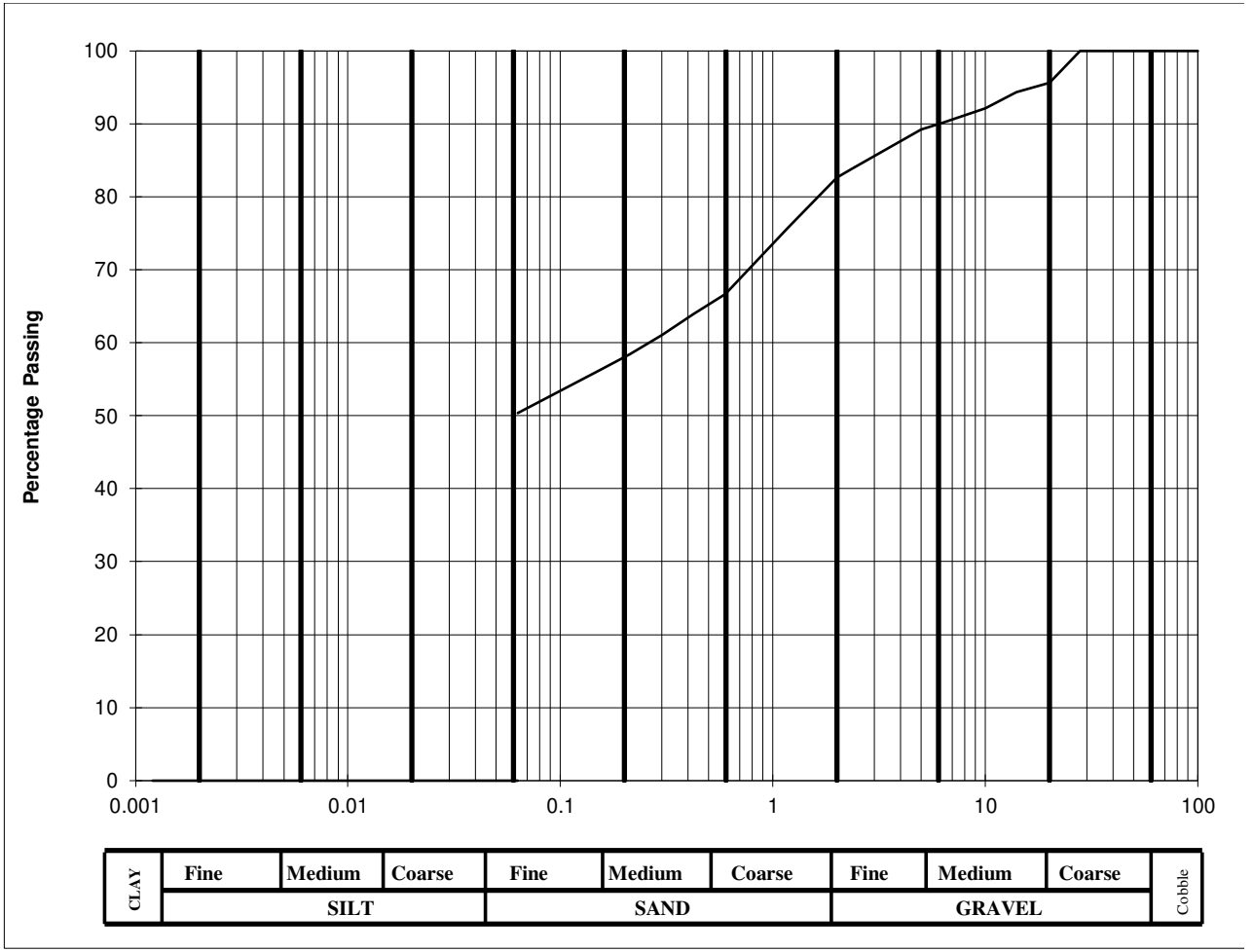
Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	95.6		
14	94.3		
10	92.1		
6.3	90.1		
5.0	89.2		
2.36	83.8		
2.00	82.6		
1.18	75.8		
0.600	66.7		
0.425	63.9		
0.300	61		
0.212	58.4		
0.150	56.1		
0.063	50		

Cobbles, %	0
Gravel, %	17
Sand, %	33
Clay / Silt, %	50



Client :	Dublin City Centre
Project :	Priorswood, Darndale

Lab. No :	26/080
Sample No :	DM05

Hole ID :	TP 02
Depth, m :	1.00

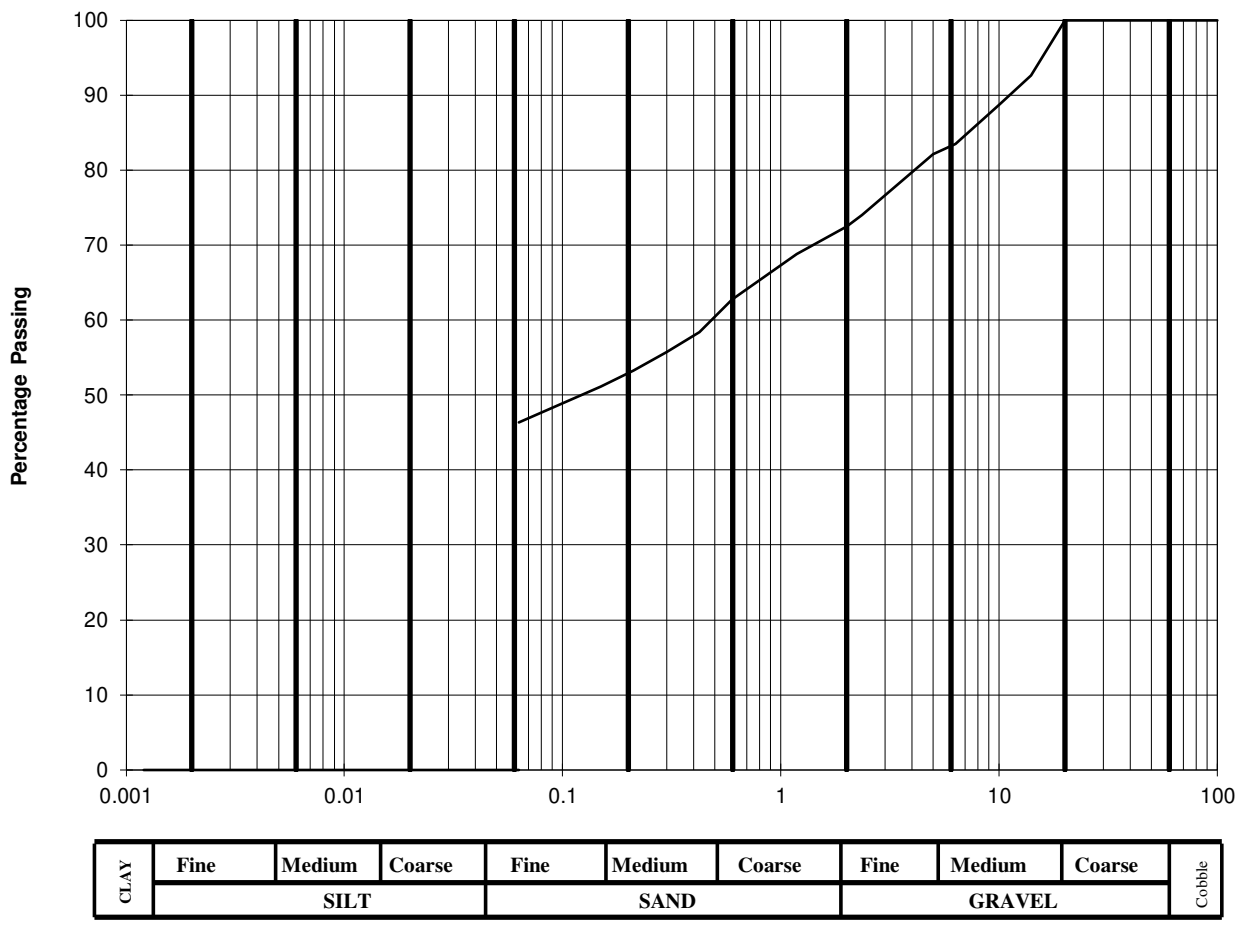
Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	100		
14	92.6		
10	88.7		
6.3	83.5		
5.0	82.1		
2.36	74		
2.00	72.5		
1.18	68.8		
0.600	62.7		
0.425	58.4		
0.300	55.7		
0.212	53.3		
0.150	51.1		
0.063	46		

Cobbles, %	0
Gravel, %	28
Sand, %	27
Clay / Silt, %	46



Client :	Dublin City Centre
Project :	Priorswood, Darndale

Lab. No :	26/081
Sample No :	DM10

Hole ID :	TP 04
Depth, m :	1.00

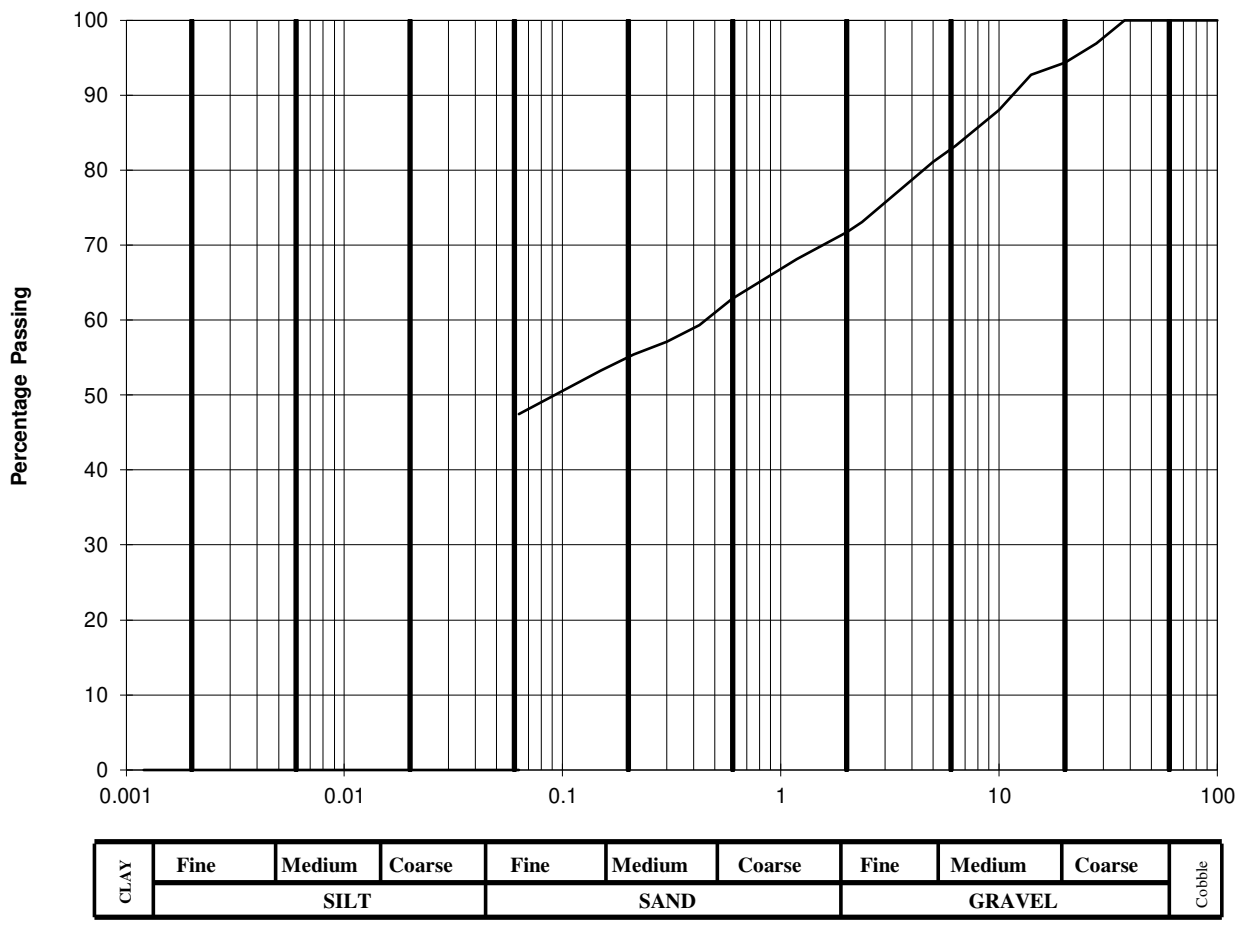
Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	96.9		
20	94.3		
14	92.7		
10	88		
6.3	83.2		
5.0	81.1		
2.36	73.1		
2.00	71.7		
1.18	68.1		
0.600	62.8		
0.425	59.3		
0.300	57.1		
0.212	55.4		
0.150	53.3		
0.063	48		

Cobbles, %	0
Gravel, %	28
Sand, %	24
Clay / Silt, %	48



Client :	Dublin City Centre
Project :	Priorswood, Darndale

Lab. No :	26/082
Sample No :	DM13

Hole ID :	TP 05
Depth, m :	1.00

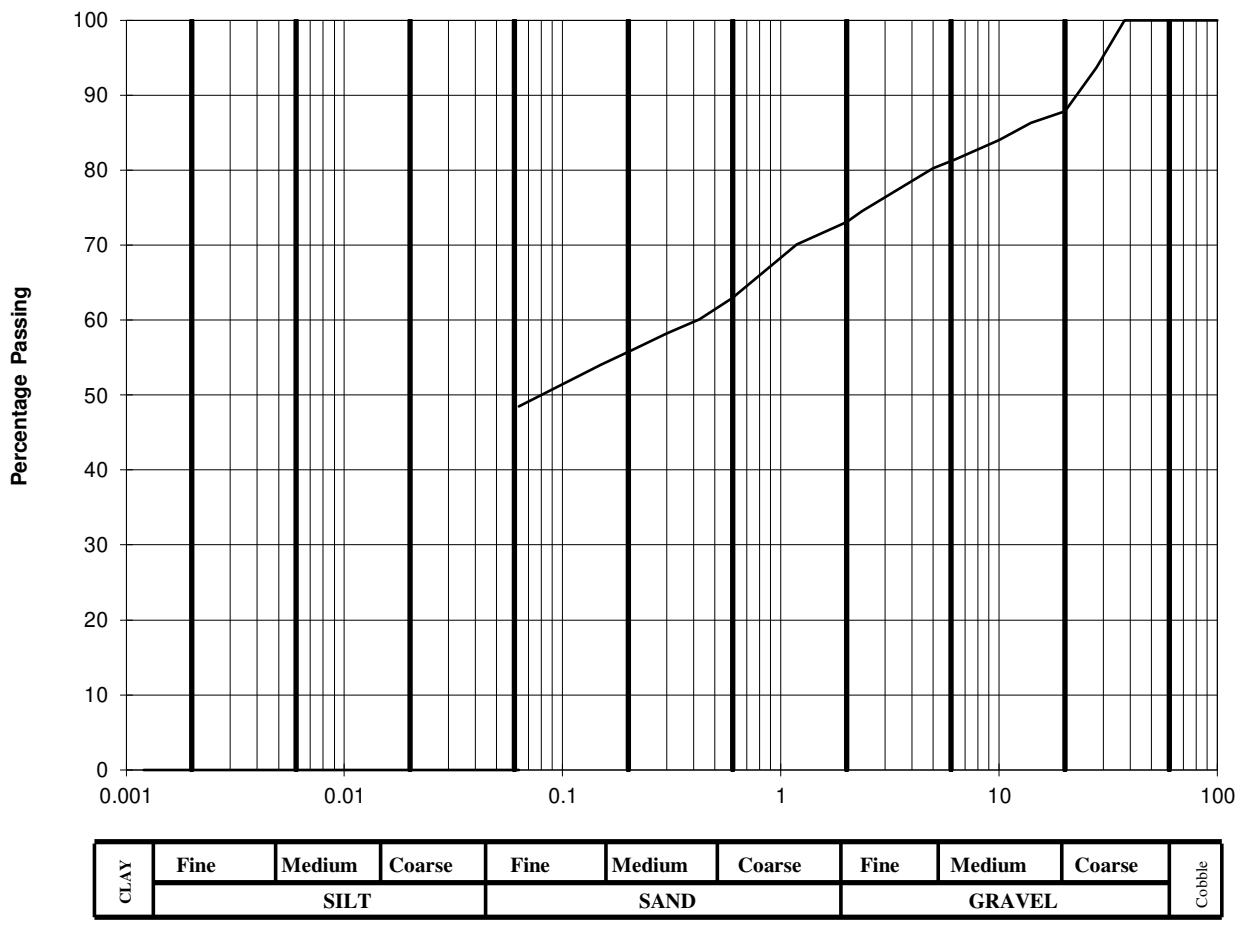
Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	93.6		
20	87.8		
14	86.3		
10	84		
6.3	81.4		
5.0	80.2		
2.36	74.5		
2.00	73.1		
1.18	70.1		
0.600	62.9		
0.425	60.1		
0.300	58.2		
0.212	56.1		
0.150	54		
0.063	49		

Cobbles, %	0
Gravel, %	27
Sand, %	24
Clay / Silt, %	49



Client :	Dublin City Centre
Project :	Priorswood, Darndale

Lab. No :	26/083
Sample No :	DM16

Hole ID :	TP 06
Depth, m :	1.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

Chemical Testing
In accordance with BS 1377: Part 3

Client	Dublin City Centre
Site	Priorswood, Darndale
S.I. File No	6597 / 25
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email:info@siteinvestigations.ie
Report Date	20th January 2026

Hole Id	Depth (mBGL)	Sample No	Lab Ref	pH Value	Water Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) g/L	Water Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) %	Acid Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) g/L	Acid Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) %	Chloride ion Content (water:soil ratio 2:1) %	% passing 2mm
TP01	1.00	DM02	26/079	8.83	0.120	0.089				74.1
TP02	1.00	DM05	26/080	8.75	0.117	0.097				82.6
TP04	1.00	DM10	26/081	8.83	0.130	0.094				72.5
TP05	1.00	DM13	26/082	8.93	0.113	0.081				71.7
TP06	1.00	DM16	26/083	8.83	0.120	0.088				73.1

Appendix 7

Environmental Laboratory Test Results

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Site Investigations Ltd
The Grange
Carhugar
12th Lock Road
Lucan
Co. Dublin

Attention: Stephen Letch

CERTIFICATE OF ANALYSIS

Date of report Generation:	29 January 2026
Customer:	Site Investigations Ltd
Sample Delivery Group (SDG):	260115-118
Your Reference:	6597
Location:	Priorswood, Darndale
Report No:	789896
Order Number:	01/B/26

We received 5 samples on Thursday January 15, 2026 and 5 of these samples were scheduled for analysis which was completed on Thursday January 29, 2026. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32734506	TP 01		0.50 - 0.50	13/01/2026
32734507	TP 02		0.50 - 0.50	13/01/2026
32734510	TP 03		0.50 - 0.50	13/01/2026
32734511	TP 04		0.50 - 0.50	13/01/2026
32734512	TP 06		0.50 - 0.50	13/01/2026

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)														
			32734506			32734507			32734510			32734511			32734512		
			Customer Sample Reference			TP 01			TP 02			TP 03			TP 04			TP 06		
			AGS Reference																	
			Depth (m)			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50		
			Container	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Anions by Kone (w)	All	NDPs: 0 Tests: 5		X			X			X			X			X		
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 5		X			X			X			X			X		
CEN Readings	All	NDPs: 0 Tests: 5		X			X			X			X			X		
Chromium III	All	NDPs: 0 Tests: 5			X			X			X			X			X	
Coronene	All	NDPs: 0 Tests: 5			X			X			X			X			X	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 5		X			X			X			X			X		
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 5		X			X			X			X			X		
EPH by GCxGC-FID	All	NDPs: 0 Tests: 5			X			X			X			X			X	
EPH CWG GC (S)	All	NDPs: 0 Tests: 5			X			X			X			X			X	
Fluoride	All	NDPs: 0 Tests: 5		X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 5				X			X			X			X			X	
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 5			X			X			X			X			X	
Loss on Ignition in soils	All	NDPs: 0 Tests: 5			X			X			X			X			X	
Mercury Dissolved	All	NDPs: 0 Tests: 5		X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 5			X			X			X			X			X	

Validated

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
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SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	32734506	32734507	32734510	32734511	32734512
			Customer Sample Reference	TP 01	TP 02	TP 03	TP 04	TP 06
			AGS Reference					
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Container	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 5			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 5			X			X			X			X			X	
PCBs by GCMS	All	NDPs: 0 Tests: 5			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 5			X			X			X			X			X	
pH Value of Filtered Water	All	NDPs: 0 Tests: 5	X			X			X			X			X				
Phenols by HPLC (W)	All	NDPs: 0 Tests: 5	X			X			X			X			X				
Sample description	All	NDPs: 0 Tests: 5		X			X			X			X			X			
Total Organic Carbon	All	NDPs: 0 Tests: 5		X			X			X			X			X			
TPH CWG GC (S)	All	NDPs: 0 Tests: 5		X			X			X			X			X			
VOC MS (S)	All	NDPs: 0 Tests: 5			X			X			X			X					X

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32734506	TP 01	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32734507	TP 02	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32734510	TP 03	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32734511	TP 04	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32734512	TP 06	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP 01	TP 02	TP 03	TP 04	TP 06
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	13/01/2026	13/01/2026	13/01/2026	13/01/2026	13/01/2026
			Sample Time	.	.	.	.	.
			Date Received	15/01/2026	15/01/2026	15/01/2026	15/01/2026	15/01/2026
			SDG Ref	260115-118	260115-118	260115-118	260115-118	260115-118
			Lab Sample No.(s)	32734506	32734507	32734510	32734511	32734512
			AGS Reference					
Moisture Content Ratio (% of as received sample)	%	PM024		13	18	21	8.7	13
Loss on ignition	<0.7 %	TM018		3.53 M	5.5 M	2.68 M	2.96 M	4.23 M
Organic Carbon, Total	<0.2 %	TM132		1.32 M	2.25 M	0.932 M	1.52 M	1.15 M
pH	1 pH Units	TM133		8.73 M	8.59 M	8.66 M	8.57 M	8.65 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<15 M	<3 M	<6 M	<15 M	<15 M
PCB congener 52	<3 µg/kg	TM168		<15 M	<3 M	<6 M	<15 M	<15 M
PCB congener 101	<3 µg/kg	TM168		<15 M	<3 M	<6 M	<15 M	<15 M
PCB congener 118	<3 µg/kg	TM168		<15 M	<3 M	<6 M	<15 M	<15 M
PCB congener 138	<3 µg/kg	TM168		<15 M	<3 M	<6 M	<15 M	<15 M
PCB congener 153	<3 µg/kg	TM168		<15 M	<3 M	<6 M	<15 M	<15 M
PCB congener 180	<3 µg/kg	TM168		<15 M	<3 M	<6 M	<15 M	<15 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<105	<21	<42	<105	<105
Chromium, Trivalent	<0.9 mg/kg	TM181		8.2	9.84	5.6	5.74	10.4
Antimony	<0.6 mg/kg	TM181		4.72 #	2.93 #	2.11 #	1.75 #	2.01 #
Arsenic	<0.6 mg/kg	TM181		11 M	23.9 M	15.6 M	11.8 M	13.8 M
Barium	<0.6 mg/kg	TM181		99.1 #	113 #	69.3 #	65.1 #	104 #
Cadmium	<0.02 mg/kg	TM181		1.52 M	2.05 M	1.58 M	0.864 M	1.83 M
Chromium	<0.9 mg/kg	TM181		8.2 M	9.84 M	5.6 M	5.74 M	10.4 M
Copper	<1.4 mg/kg	TM181		53 M	37.7 M	26.4 M	25.2 M	25.6 M
Lead	<0.7 mg/kg	TM181		39.6 M	65.2 M	34.3 M	33.8 M	30.9 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		1.43 #	2.71 #	3.34 #	0.977 #	1.11 #
Nickel	<0.2 mg/kg	TM181		30.7 M	37.6 M	36.2 M	18.8 M	37.4 M
Selenium	<1 mg/kg	TM181		<1 #	2.24 #	1.53 #	<1 #	1.34 #
Zinc	<1.9 mg/kg	TM181		117 M	154 M	96.3 M	77.5 M	123 M
PAH total 17 (inclusive of Coronene)	<1 mg/kg	TM410		<1	<1	<1	2.49	<1
Coronene	<200 µg/kg	TM410		<200	incomplete	<200	<200	incomplete
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		14.2	<5	<5	5.79	<5

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP 01	TP 02	TP 03	TP 04	TP 06
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	13/01/2026	13/01/2026	13/01/2026	13/01/2026	13/01/2026
			Sample Time	.	.	.	.	.
			Date Received	15/01/2026	15/01/2026	15/01/2026	15/01/2026	15/01/2026
			SDG Ref	260115-118	260115-118	260115-118	260115-118	260115-118
			Lab Sample No.(s)	32734506	32734507	32734510	32734511	32734512
			AGS Reference					
Naphthalene	<9 µg/kg	TM218		<45 M	<9 M	<18 M	<18 M	<45 M
Acenaphthylene	<12 µg/kg	TM218		<60 M	<12 M	<24 M	<24 M	<60 M
Acenaphthene	<8 µg/kg	TM218		<40 M	<8 M	<16 M	<16 M	<40 M
Fluorene	<10 µg/kg	TM218		<50 M	<10 M	<20 M	<20 M	<50 M
Phenanthrene	<15 µg/kg	TM218		<75 M	45.5 M	<30 M	120 M	<75 M
Anthracene	<16 µg/kg	TM218		<80 M	<16 M	<32 M	35.6 M	<80 M
Fluoranthene	<17 µg/kg	TM218		<85 M	73.6 M	46.7 M	421 M	<85 M
Pyrene	<15 µg/kg	TM218		<75 M	73.8 M	48.7 M	406 M	<75 M
Benz(a)anthracene	<14 µg/kg	TM218		<70 M	45 M	<28 M	249 M	<70 M
Chrysene	<10 µg/kg	TM218		<50 M	53.4 M	28.3 M	217 M	<50 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<75 M	64.2 M	<30 M	343 M	<75 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<70 M	20.3 M	<28 M	129 M	<70 M
Benzo(a)pyrene	<15 µg/kg	TM218		<75 M	46.5 M	<30 M	262 M	<75 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<90 M	28.2 M	<36 M	138 M	<90 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<115 M	<23 M	<46 M	<46 M	<115 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<120 M	35.4 M	<48 M	173 M	<120 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<590	486	<236	2490	<590

Validated

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP 01	TP 02	TP 03	TP 04	TP 06
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	13/01/2026	13/01/2026	13/01/2026	13/01/2026	13/01/2026
			Sample Time	.	.	.	.	.
			Date Received	15/01/2026	15/01/2026	15/01/2026	15/01/2026	15/01/2026
			SDG Ref	260115-118	260115-118	260115-118	260115-118	260115-118
			Lab Sample No.(s)	32734506	32734507	32734510	32734511	32734512
			AGS Reference					
GRO Surrogate % recovery**	%	TM089		86.2	81.8	87	83.5	89.5
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		1410 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		10600 #	4040 #	<1000 #	5350 #	1570 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		12300	<5000	<5000	5720	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		20400	15600	<10000	27400	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		6850 #	12800 #	<1000 #	15800 #	5680 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	1930	<1000	5200	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		8080	15600	<5000	21700	6850
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		20400	15600	<10000	27400	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

VOC MS (S)

Results Legend

#	ISO17025 accredited.
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aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
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**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP 01	TP 02	TP 03	TP 04	TP 06
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	13/01/2026	13/01/2026	13/01/2026	13/01/2026	13/01/2026
			Sample Time	.	.	.	.	.
			Date Received	15/01/2026	15/01/2026	15/01/2026	15/01/2026	15/01/2026
			SDG Ref	260115-118	260115-118	260115-118	260115-118	260115-118
			Lab Sample No.(s)	32734506	32734507	32734510	32734511	32734512
			AGS Reference					
Dibromofluoromethane**	%	TM116		106	106	112	106	106
Toluene-d8**	%	TM116		96.6	98.8	99.3	98.8	98.2
4-Bromofluorobenzene**	%	TM116		87	94.2	72.4	91.7	92
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<5 M	<5 M	<0.5 M	<5 M	<5 M
Benzene	<1 µg/kg	TM116		<10 M	<10 M	<1 M	<10 M	<10 M
Toluene	<1 µg/kg	TM116		<15 M	<15 M	<3.5 M	<20 M	<15 M
Ethylbenzene	<1 µg/kg	TM116		<10 M	<10 M	<1 M	<10 M	<10 M
p/m-Xylene	<2 µg/kg	TM116		<20 #	<20 #	<3 #	<25 #	<20 #
o-Xylene	<2 µg/kg	TM116		<20 M	<20 M	<2 M	<20 M	<20 M
Sum of BTEX	<7 µg/kg	TM116		<105	<105	<10.5	<110	<115

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

Asbestos Identification - Solid Samples

Results Legend
ISO17025 accredited.
M *m*CERTS accredited.
***** Subcontracted test.

1-5&♦§@ Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Asbestos Actinolite	Asbestos Anthophyllite	Asbestos Tremolite	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TP 01 0.50 - 0.50 SOLID 13/01/2026 00:00:00 15/01/2026 12:15:00 260115-118 32734506 TM048	19/01/2026	Renata Bozhkov	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TP 02 0.50 - 0.50 SOLID 13/01/2026 00:00:00 15/01/2026 12:15:00 260115-118 32734507 TM048	19/01/2026	Paul Poynton	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TP 03 0.50 - 0.50 SOLID 13/01/2026 00:00:00 15/01/2026 12:15:00 260115-118 32734510 TM048	19/01/2026	Paul Poynton	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TP 04 0.50 - 0.50 SOLID 13/01/2026 00:00:00 15/01/2026 12:15:00 260115-118 32734511 TM048	19/01/2026	Paul Poynton	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TP 06 0.50 - 0.50 SOLID 13/01/2026 00:00:00 15/01/2026 12:15:00 260115-118 32734512 TM048	19/01/2026	Renata Bozhkov	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

Validated

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Priorswood, Darndale
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	14.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	87.1
Particle Size <4mm	>95%		

Case	
SDG	260115-118
Lab Sample Number(s)	32734506
Sampled Date	13-Jan-2026
Customer Sample Ref.	TP 01
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	1.32	3	5	6
Loss on Ignition (%)	3.53	-	-	10
Sum of BTEX (mg/kg)	<0.105	6	-	-
Sum of 7 PCBs (mg/kg)	<0.105	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	14.2	500	-	-
PAH Sum of 17 (mg/kg)	<1	100	-	-
pH (pH Units)	8.73	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Conc^n in 10:1 eluate (mg/l)**		**A_2 10:1 conc^n leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.00107	<0.0005	0.0107	<0.005	0.5	2	25
Barium	0.0238	<0.0002	0.238	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00952	<0.0003	0.0952	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00962	<0.003	0.0962	<0.03	0.5	10	30
Nickel	0.00137	<0.0004	0.0137	<0.004	0.4	10	40
Lead	0.000903	<0.0002	0.00903	<0.002	0.5	10	50
Antimony	0.00605	<0.001	0.0605	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00528	<0.001	0.0528	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.588	<0.5	5.88	<5	10	150	500
Sulphate (soluble)	20.1	<2	201	<20	1000	20000	50000
Total Dissolved Solids	112	<10	1120	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.16	<3	51.6	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2026
pH (pH Units)	8.53
Conductivity (µS/cm)	146
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C). Prepared leachates do not hold ISO17025 accreditation.
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Priorswood, Darndale
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.1
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.4
Particle Size <4mm	>95%		

Case	
SDG	260115-118
Lab Sample Number(s)	32734507
Sampled Date	13-Jan-2026
Customer Sample Ref.	TP 02
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	2.25	3	5	6
Loss on Ignition (%)	5.5	-	-	10
Sum of BTEX (mg/kg)	<0.105	6	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<1	100	-	-
pH (pH Units)	8.59	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Conc^n in 10:1 eluate (mg/l)**		**A_2 10:1 conc^n leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000889	<0.0005	0.00889	<0.005	0.5	2	25
Barium	0.00562	<0.0002	0.0562	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00802	<0.0003	0.0802	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00733	<0.003	0.0733	<0.03	0.5	10	30
Nickel	0.00151	<0.0004	0.0151	<0.004	0.4	10	40
Lead	0.00105	<0.0002	0.0105	<0.002	0.5	10	50
Antimony	0.00105	<0.001	0.0105	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00559	<0.001	0.0559	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.583	<0.5	5.83	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	101	<10	1010	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.72	<3	57.2	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2026
pH (pH Units)	8.44
Conductivity (µS/cm)	132
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C). Prepared leachates do not hold ISO17025 accreditation.
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CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Priorswood, Darndale
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	15.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.8
Particle Size <4mm	>95%		

Case	
SDG	260115-118
Lab Sample Number(s)	32734510
Sampled Date	13-Jan-2026
Customer Sample Ref.	TP 03
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.932	3	5	6
Loss on Ignition (%)	2.68	-	-	10
Sum of BTEX (mg/kg)	<0.0105	6	-	-
Sum of 7 PCBs (mg/kg)	<0.042	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<1	100	-	-
pH (pH Units)	8.66	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Conc^n in 10:1 eluate (mg/l)**		**A_2 10:1 conc^n leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000644	<0.0005	0.00644	<0.005	0.5	2	25
Barium	0.00477	<0.0002	0.0477	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00576	<0.0003	0.0576	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.011	<0.003	0.11	<0.03	0.5	10	30
Nickel	0.000853	<0.0004	0.00853	<0.004	0.4	10	40
Lead	0.000777	<0.0002	0.00777	<0.002	0.5	10	50
Antimony	0.00129	<0.001	0.0129	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00417	<0.001	0.0417	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	76.2	<10	762	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.17	<3	51.7	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2026
pH (pH Units)	8.74
Conductivity (µS/cm)	99
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C). Prepared leachates do not hold ISO17025 accreditation.
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CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Priorswood, Darndale
Mass Sample taken (kg)	0.102	**Natural Moisture Content (%)**	16.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.8
Particle Size <4mm	>95%		

Case	
SDG	260115-118
Lab Sample Number(s)	32734511
Sampled Date	13-Jan-2026
Customer Sample Ref.	TP 04
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	1.52	3	5	6
Loss on Ignition (%)	2.96	-	-	10
Sum of BTEX (mg/kg)	<0.11	6	-	-
Sum of 7 PCBs (mg/kg)	<0.105	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	5.79	500	-	-
PAH Sum of 17 (mg/kg)	2.49	100	-	-
pH (pH Units)	8.57	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Conc^n in 10:1 eluate (mg/l)**		**A_2 10:1 conc^n leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.00124	<0.0005	0.0124	<0.005	0.5	2	25
Barium	0.00744	<0.0002	0.0744	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00744	<0.0003	0.0744	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00687	<0.003	0.0687	<0.03	0.5	10	30
Nickel	0.00228	<0.0004	0.0228	<0.004	0.4	10	40
Lead	0.000634	<0.0002	0.00634	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00834	<0.001	0.0834	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	7.9	<2	79	<20	1000	20000	50000
Total Dissolved Solids	104	<10	1040	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.66	<3	76.6	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2026
pH (pH Units)	8.56
Conductivity (µS/cm)	135
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C). Prepared leachates do not hold ISO17025 accreditation.
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CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Priorswood, Darndale
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	16.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.8
Particle Size <4mm	>95%		

Case	
SDG	260115-118
Lab Sample Number(s)	32734512
Sampled Date	13-Jan-2026
Customer Sample Ref.	TP 06
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	1.15	3	5	6
Loss on Ignition (%)	4.23	-	-	10
Sum of BTEX (mg/kg)	<0.115	6	-	-
Sum of 7 PCBs (mg/kg)	<0.105	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<1	100	-	-
pH (pH Units)	8.65	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Conc^n in 10:1 eluate (mg/l)**		**A_2 10:1 conc^n leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000978	<0.0005	0.00978	<0.005	0.5	2	25
Barium	0.00758	<0.0002	0.0758	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00433	<0.0003	0.0433	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00815	<0.003	0.0815	<0.03	0.5	10	30
Nickel	0.00144	<0.0004	0.0144	<0.004	0.4	10	40
Lead	0.000325	<0.0002	0.00325	<0.002	0.5	10	50
Antimony	0.00143	<0.001	0.0143	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00283	<0.001	0.0283	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.51	<0.5	5.1	<5	10	150	500
Sulphate (soluble)	7.6	<2	76	<20	1000	20000	50000
Total Dissolved Solids	96.9	<10	969	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.84	<3	48.4	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2026
pH (pH Units)	8.54
Conductivity (µS/cm)	126
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C). Prepared leachates do not hold ISO17025 accreditation.
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
PM115	Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	Determination of Loss on Ignition
TM089	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM116	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Determination of Hexavalent Chromium using Kone analyser
TM181	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM410	Determination of Coronene in soils by GCMS
TM048	Identification of Asbestos in Bulk Material
TM104	Determination of Fluoride using the Kone Analyser
TM152	Analysis of Aqueous Samples by ICP-MS
TM168	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	The determination of PAH in soil samples by GC-MS
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM414	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID
TM415	Determination of Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

CERTIFICATE OF ANALYSIS

SDG: 260115-118 **Report Number:** 789896 **Superseded Report:**
Client Ref.: 6597 **Location:** Priorswood, Darndale

Test Completion Dates

Lab Sample No(s)	32734506	32734507	32734510	32734511	32734512
Customer Sample Ref.	TP 01	TP 02	TP 03	TP 04	TP 06
AGS Ref.					
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	19-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Asbestos ID in Solid Samples	19-Jan-2026	19-Jan-2026	19-Jan-2026	19-Jan-2026	19-Jan-2026
CEN 10:1 Leachate (1 Stage)	16-Jan-2026	16-Jan-2026	16-Jan-2026	16-Jan-2026	16-Jan-2026
CEN Readings	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026
Chromium III	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Coronene	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026
Dissolved Metals by ICP-MS	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Dissolved Organic/Inorganic Carbon	22-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026
EPH by GCxGC-FID	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026
EPH CWG GC (S)	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Fluoride	19-Jan-2026	19-Jan-2026	19-Jan-2026	19-Jan-2026	19-Jan-2026
GRO by GC-FID (S)	19-Jan-2026	19-Jan-2026	19-Jan-2026	19-Jan-2026	19-Jan-2026
Hexavalent Chromium (s)	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Loss on Ignition in soils	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Mercury Dissolved	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Metals in solid samples by OES	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Moisture at 105C	16-Jan-2026	16-Jan-2026	16-Jan-2026	16-Jan-2026	16-Jan-2026
PAH 16 & 17 Calc	22-Jan-2026	22-Jan-2026	22-Jan-2026	21-Jan-2026	22-Jan-2026
PAH by GCMS	22-Jan-2026	22-Jan-2026	22-Jan-2026	21-Jan-2026	22-Jan-2026
PCBs by GCMS	27-Jan-2026	29-Jan-2026	29-Jan-2026	27-Jan-2026	29-Jan-2026
pH	19-Jan-2026	20-Jan-2026	20-Jan-2026	19-Jan-2026	20-Jan-2026
pH Value of Filtered Water	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026	21-Jan-2026
Phenols by HPLC (W)	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
Sample description	17-Jan-2026	17-Jan-2026	17-Jan-2026	17-Jan-2026	17-Jan-2026
Total Organic Carbon	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
TPH CWG GC (S)	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026	20-Jan-2026
VOC MS (S)	20-Jan-2026	20-Jan-2026	19-Jan-2026	20-Jan-2026	20-Jan-2026

Appendix

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised.
This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur -
e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests.
We therefore cannot carry out any unfiltered analysis.
The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l.
Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only.
It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as “mixed hydrocarbons”. Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two ‘pinch’ samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term ‘trace asbestos identified’ is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.
The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.

Appendix 8

Waste Classification Report

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

KY3FE-MP7B5-QYZVB

Report is invalid if pages are removed.

Job name

6597

Description/Comments

Client: Dublin City Council
Engineer: Hayes Higgins Partnership

Project

Priorswood

Site

Darndale, Dublin 17

Classified by

Name:
Stephen Letch
Date:
30 Jan 2026 13:04 GMT
Telephone:
00353 86817 9449

Company:
Site Investigations Ltd
The Grange
12th Lock Road
Lucan
K78 F598

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: CERTIFIED

Course	Date
Hazardous Waste Classification	09 Oct 2019
Most recent 3 year Refresher	02 Dec 2025

Next 3 year Refresher due by Dec 2028

Purpose of classification

2 - Material Characterisation

Address of the waste

MARIGOLD AVENUE (NC), Primrose Grove, Darndale, Priorswood C Ward 1986, Dublin, County Dublin, Leinster, Ireland

Post Code D17 Y738

Description of industry/producer giving rise to the waste

Site Investigation

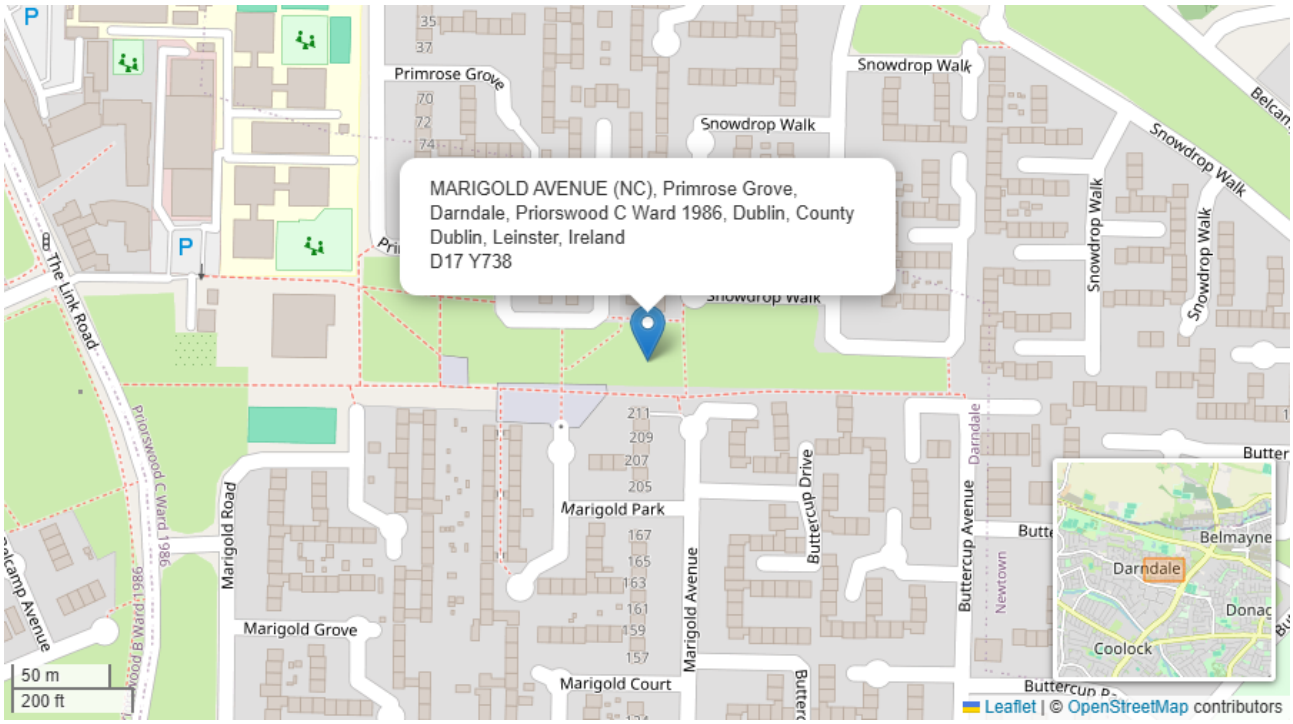
Description of the specific process, sub-process and/or activity that created the waste

Soils recovered for environmental testing

Description of the waste

Natural soils

Waste Location



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results		Page
					Inert	Non Haz	
1	TP01-0.50	0.50	Non Hazardous		Fail	Pass	3
2	TP02-0.50	0.50	Non Hazardous		Pass	Pass	7
3	TP03-0.50	0.50	Non Hazardous		Pass	Pass	11
4	TP04-0.50	0.50	Non Hazardous		Pass	Pass	15
5	TP06-0.50	0.50	Non Hazardous		Pass	Pass	19

Related documents

#	Name	Description
1	260115-118.hwol	ALS Hawarden .hwol file used to populate the Job
2	Rilta Suite ALS	waste stream template used to create this Job

WAC Results

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate the samples in this Job: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Stephen Letch

Created date: 30 Jan 2026 13:04 GMT

Appendices	Page
Appendix A: Classifier defined and non EU CLP determinands	23
Appendix B: Rationale for selection of metal species	25
Appendix C: Version	26

Classification of sample: TP01-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP01-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		pH			PH		8.73 pH		8.73 pH	8.73 pH		
2		TPH (C6 to C40) petroleum group			TPH		20.4 mg/kg		17.748 mg/kg	0.00177 %	✓	
3		confirm TPH has NOT arisen from diesel or petrol			TPH_CONFIRM		☑					
4		asbestos fibres detected (Yes/No)			ACM_FIBRES		No					
5		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.72 mg/kg		4.106 mg/kg	0.000411 %	✓	
6		arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			1	11 mg/kg		9.57 mg/kg	0.000957 %	✓	
7		barium { barium oxide }		215-127-9	1304-28-5		99.1 mg/kg	1.117	96.262 mg/kg	0.00963 %	✓	
8		cadmium { cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex }	048-001-00-5			1	1.52 mg/kg		1.322 mg/kg	0.000132 %	✓	
9		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		53 mg/kg	1.126	51.915 mg/kg	0.00519 %	✓	
10		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	39.6 mg/kg		34.452 mg/kg	0.00345 %	✓	
11		mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		**<LOD**
12		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.43 mg/kg	1.5	1.866 mg/kg	0.000187 %	✓	

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
13		nickel { nickel(II) oxide (nickel monoxide) }									
		028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		30.7 mg/kg	1.273	33.99 mg/kg	0.0034 %	✓	
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
		034-002-00-8									
15		zinc { zinc oxide }				117 mg/kg	1.245	126.699 mg/kg	0.0127 %	✓	
		030-013-00-7	215-222-5	1314-13-2							
16		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				8.2 mg/kg	1.462	10.427 mg/kg	0.00104 %	✓	
			215-160-9	1308-38-9							
17		chromium in Cr(VI) compounds { chromium(VI) oxide }				<0.6 mg/kg	1.923	<1.154 mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0							
18		naphthalene				<0.045 mg/kg		<0.045 mg/kg	<0.0000045 %		<LOD
		601-052-00-2	202-049-5	91-20-3							
19		acenaphthylene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
			205-917-1	208-96-8							
20		acenaphthene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
			201-469-6	83-32-9							
21		fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7							
22		phenanthrene				<0.075 mg/kg		<0.075 mg/kg	<0.0000075 %		<LOD
			201-581-5	85-01-8							
23		anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7							
24		fluoranthene				<0.085 mg/kg		<0.085 mg/kg	<0.0000085 %		<LOD
			205-912-4	206-44-0							
25		pyrene				<0.075 mg/kg		<0.075 mg/kg	<0.0000075 %		<LOD
			204-927-3	129-00-0							
26		benzo[a]anthracene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		601-033-00-9	200-280-6	56-55-3							
27		chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9							
28		benzo[b]fluoranthene				<0.075 mg/kg		<0.075 mg/kg	<0.0000075 %		<LOD
		601-034-00-4	205-911-9	205-99-2							
29		benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
30		benzo[a]pyrene; benzo[def]chrysene				<0.075 mg/kg		<0.075 mg/kg	<0.0000075 %		<LOD
		601-032-00-3	200-028-5	50-32-8							
31		indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-893-2	193-39-5							
32		dibenz[a,h]anthracene				<0.115 mg/kg		<0.115 mg/kg	<0.0000115 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
33		benzo[ghi]perylene				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
			205-883-8	191-24-2							
34		polychlorobiphenyls; PCB				<0.105 mg/kg		<0.105 mg/kg	<0.0000105 %		<LOD
		602-039-00-4	215-648-1	1336-36-3							
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
36		benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
37		toluene				<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
38		ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
39		coronene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
40		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
41	●	< 2% non-natural materials (Yes/No)				Yes					
				NONNAT_MAT							
								Total:	0.0388 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous Property to non-hazardous for cumulative determinand results below the concentration of: 1000 mg/kg (0.1%) because: HP 3 can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00177%)

WAC results for sample: TP01-0.50

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	1.32	3	-
2	LOI (loss on ignition)	%	3.53	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	1	-
5	Mineral oil (C10 to C40)	mg/kg	14.2	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	100	-
7	pH	pH	8.73	-	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0107	0.5	2
10	barium	mg/kg	0.238	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0952	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.0962	0.5	10
16	nickel	mg/kg	0.0137	0.4	10
17	lead	mg/kg	0.009	0.5	10
18	antimony	mg/kg	0.0605	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0528	4	50
21	chloride	mg/kg	<20	800	15000
22	fluoride	mg/kg	5.88	10	150
23	sulphate	mg/kg	201	1000	20000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	51.6	500	800
26	TDS (total dissolved solids)	mg/kg	1120	4000	60000

Key

User supplied data

Inert WAC criteria fail

Classification of sample: TP02-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP02-0.50
Sample Depth:
0.50 m
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.59 pH		8.59 pH	8.59 pH		
2	TPH (C6 to C40) petroleum group			TPH		15.6 mg/kg		12.792 mg/kg	0.00128 %	✓	
3	confirm TPH has NOT arisen from diesel or petrol			TPH_CONFIRM		☑					
4	asbestos fibres detected (Yes/No)			ACM_FIBRES		No					
5	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.93 mg/kg		2.403 mg/kg	0.00024 %	✓	
6	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			1	23.9 mg/kg		19.598 mg/kg	0.00196 %	✓	
7	barium { barium oxide }		215-127-9	1304-28-5		113 mg/kg	1.117	103.455 mg/kg	0.0103 %	✓	
8	cadmium { cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex }	048-001-00-5			1	2.05 mg/kg		1.681 mg/kg	0.000168 %	✓	
9	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37.7 mg/kg	1.126	34.806 mg/kg	0.00348 %	✓	
10	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	65.2 mg/kg		53.464 mg/kg	0.00535 %	✓	
11	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		**<LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.71 mg/kg	1.5	3.334 mg/kg	0.000333 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		37.6	mg/kg	1.273	39.237	mg/kg	0.00392 %	✓	
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				2.24	mg/kg	1.405	2.581	mg/kg	0.000258 %	✓	
15		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		154	mg/kg	1.245	157.182	mg/kg	0.0157 %	✓	
16		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.84	mg/kg	1.462	11.793	mg/kg	0.00118 %	✓	
17		chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
18		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
19		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
20		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		phenanthrene		201-581-5	85-01-8		0.0455	mg/kg		0.0373	mg/kg	0.00000373 %	✓	
23		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
24		fluoranthene		205-912-4	206-44-0		0.0736	mg/kg		0.0604	mg/kg	0.00000604 %	✓	
25		pyrene		204-927-3	129-00-0		0.0738	mg/kg		0.0605	mg/kg	0.00000605 %	✓	
26		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.045	mg/kg		0.0369	mg/kg	0.00000369 %	✓	
27		chrysene	601-048-00-0	205-923-4	218-01-9		0.0534	mg/kg		0.0438	mg/kg	0.00000438 %	✓	
28		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.0642	mg/kg		0.0526	mg/kg	0.00000526 %	✓	
29		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.0203	mg/kg		0.0166	mg/kg	0.00000166 %	✓	
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.0465	mg/kg		0.0381	mg/kg	0.00000381 %	✓	
31		indeno[123-cd]pyrene		205-893-2	193-39-5		0.0282	mg/kg		0.0231	mg/kg	0.00000231 %	✓	
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		0.0354	mg/kg		0.029	mg/kg	0.0000029 %	✓	
34		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
36		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37		toluene	601-021-00-3	203-625-9	108-88-3		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
38		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
40		< 2% non-natural materials (Yes/No)				Yes					
				NONNAT_MAT							
								Total:	0.0443 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous Property to non-hazardous for cumulative determinand results below the concentration of: 1000 mg/kg (0.1%) because: HP 3 can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00128%)

WAC results for sample: TP02-0.50

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	2.25	3	-
2	LOI (loss on ignition)	%	5.5	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	100	-
7	pH	pH	8.59	-	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0088	0.5	2
10	barium	mg/kg	0.0562	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0802	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.0733	0.5	10
16	nickel	mg/kg	0.0151	0.4	10
17	lead	mg/kg	0.0105	0.5	10
18	antimony	mg/kg	0.0105	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0559	4	50
21	chloride	mg/kg	<20	800	15000
22	fluoride	mg/kg	5.83	10	150
23	sulphate	mg/kg	<20	1000	20000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	57.2	500	800
26	TDS (total dissolved solids)	mg/kg	1010	4000	60000

Key

User supplied data

Classification of sample: TP03-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP03-0.50
Sample Depth:
0.50 m
Moisture content:
21%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		pH			PH		8.66 pH		8.66 pH	8.66 pH		
2		TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
3		confirm TPH has NOT arisen from diesel or petrol			TPH_CONFIRM		☑					
4		asbestos fibres detected (Yes/No)			ACM_FIBRES		No					
5		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.11 mg/kg		1.667 mg/kg	0.000167 %	✓	
6		arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			1	15.6 mg/kg		12.324 mg/kg	0.00123 %	✓	
7		barium { barium oxide }		215-127-9	1304-28-5		69.3 mg/kg	1.117	61.125 mg/kg	0.00611 %	✓	
8		cadmium { cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex }	048-001-00-5			1	1.58 mg/kg		1.248 mg/kg	0.000125 %	✓	
9		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		26.4 mg/kg	1.126	23.482 mg/kg	0.00235 %	✓	
10		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	34.3 mg/kg		27.097 mg/kg	0.00271 %	✓	
11		mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		<**LOD**
12		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3.34 mg/kg	1.5	3.958 mg/kg	0.000396 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		nickel { nickel(II) oxide (nickel monoxide) }											
		028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		36.2	mg/kg	1.273	36.394	mg/kg	0.00364 %	✓	
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }											
		034-002-00-8				1.53	mg/kg	1.405	1.698	mg/kg	0.00017 %	✓	
15		zinc { zinc oxide }											
		030-013-00-7	215-222-5	1314-13-2		96.3	mg/kg	1.245	94.694	mg/kg	0.00947 %	✓	
16		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }											
			215-160-9	1308-38-9		5.6	mg/kg	1.462	6.466	mg/kg	0.000647 %	✓	
17		chromium in Cr(VI) compounds { chromium(VI) oxide }											
		024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
18		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
19		acenaphthylene											
			205-917-1	208-96-8		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
20		acenaphthene											
			201-469-6	83-32-9		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
21		fluorene											
			201-695-5	86-73-7		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
22		phenanthrene											
			201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		anthracene											
			204-371-1	120-12-7		<0.032	mg/kg		<0.032	mg/kg	<0.0000032 %		<LOD
24		fluoranthene											
			205-912-4	206-44-0		0.0467	mg/kg		0.0369	mg/kg	0.00000369 %	✓	
25		pyrene											
			204-927-3	129-00-0		0.0487	mg/kg		0.0385	mg/kg	0.00000385 %	✓	
26		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.028	mg/kg		<0.028	mg/kg	<0.0000028 %		<LOD
27		chrysene											
		601-048-00-0	205-923-4	218-01-9		0.0283	mg/kg		0.0224	mg/kg	0.00000224 %	✓	
28		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
29		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.028	mg/kg		<0.028	mg/kg	<0.0000028 %		<LOD
30		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
31		indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.036	mg/kg		<0.036	mg/kg	<0.0000036 %		<LOD
32		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.046	mg/kg		<0.046	mg/kg	<0.0000046 %		<LOD
33		benzo[ghi]perylene											
			205-883-8	191-24-2		<0.048	mg/kg		<0.048	mg/kg	<0.0000048 %		<LOD
34		polychlorobiphenyls; PCB											
		602-039-00-4	215-648-1	1336-36-3		<0.042	mg/kg		<0.042	mg/kg	<0.0000042 %		<LOD
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane											
		603-181-00-X	216-653-1	1634-04-4		<0.0005	mg/kg		<0.0005	mg/kg	<0.00000005 %		<LOD
36		benzene											
		601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
37		toluene											
		601-021-00-3	203-625-9	108-88-3		<0.0035	mg/kg		<0.0035	mg/kg	<0.00000035 %		<LOD
38		ethylbenzene											
		601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
39		coronene											
			205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
40		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
41	●	< 2% non-natural materials (Yes/No)				Yes					
				NONNAT_MAT							
								Total:	0.027 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP03-0.50

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.932	3	-
2	LOI (loss on ignition)	%	2.68	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	100	-
7	pH	pH	8.66	-	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0064	0.5	2
10	barium	mg/kg	0.0477	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0576	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.11	0.5	10
16	nickel	mg/kg	0.0085	0.4	10
17	lead	mg/kg	0.0077	0.5	10
18	antimony	mg/kg	0.0129	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0417	4	50
21	chloride	mg/kg	<20	800	15000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1000	20000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	51.7	500	800
26	TDS (total dissolved solids)	mg/kg	762	4000	60000

Key

User supplied data

Classification of sample: TP04-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP04-0.50
Sample Depth:
0.50 m
Moisture content:
8.7%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.7% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.57 pH		8.57 pH	8.57 pH		
2	TPH (C6 to C40) petroleum group			TPH		27.4 mg/kg		25.016 mg/kg	0.0025 %	✓	
3	confirm TPH has NOT arisen from diesel or petrol			TPH_CONFIRM		☑					
4	asbestos fibres detected (Yes/No)			ACM_FIBRES		No					
5	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.75 mg/kg		1.598 mg/kg	0.00016 %	✓	
6	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			1	11.8 mg/kg		10.773 mg/kg	0.00108 %	✓	
7	barium { barium oxide }		215-127-9	1304-28-5		65.1 mg/kg	1.117	66.361 mg/kg	0.00664 %	✓	
8	cadmium { cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex }	048-001-00-5			1	0.864 mg/kg		0.789 mg/kg	0.0000789 %	✓	
9	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25.2 mg/kg	1.126	25.904 mg/kg	0.00259 %	✓	
10	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	33.8 mg/kg		30.859 mg/kg	0.00309 %	✓	
11	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		**<LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.977 mg/kg	1.5	1.338 mg/kg	0.000134 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		18.8	mg/kg	1.273	21.843	mg/kg	0.00218 %	✓	
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
15		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		77.5	mg/kg	1.245	88.073	mg/kg	0.00881 %	✓	
16		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.74	mg/kg	1.462	7.659	mg/kg	0.000766 %	✓	
17		chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
18		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
19		acenaphthylene		205-917-1	208-96-8		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
20		acenaphthene		201-469-6	83-32-9		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
22		phenanthrene		201-581-5	85-01-8		0.12	mg/kg		0.11	mg/kg	0.000011 %	✓	
23		anthracene		204-371-1	120-12-7		0.0356	mg/kg		0.0325	mg/kg	0.00000325 %	✓	
24		fluoranthene		205-912-4	206-44-0		0.421	mg/kg		0.384	mg/kg	0.0000384 %	✓	
25		pyrene		204-927-3	129-00-0		0.406	mg/kg		0.371	mg/kg	0.0000371 %	✓	
26		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.249	mg/kg		0.227	mg/kg	0.0000227 %	✓	
27		chrysene	601-048-00-0	205-923-4	218-01-9		0.217	mg/kg		0.198	mg/kg	0.0000198 %	✓	
28		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.343	mg/kg		0.313	mg/kg	0.0000313 %	✓	
29		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.129	mg/kg		0.118	mg/kg	0.0000118 %	✓	
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.262	mg/kg		0.239	mg/kg	0.0000239 %	✓	
31		indeno[123-cd]pyrene		205-893-2	193-39-5		0.138	mg/kg		0.126	mg/kg	0.0000126 %	✓	
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.046	mg/kg		<0.046	mg/kg	<0.0000046 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		0.173	mg/kg		0.158	mg/kg	0.0000158 %	✓	
34		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.105	mg/kg		<0.105	mg/kg	<0.0000105 %		<LOD
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
36		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37		toluene	601-021-00-3	203-625-9	108-88-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
38		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
39		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
40		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.045 mg/kg		<0.045 mg/kg	<0.0000045 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
41	●	< 2% non-natural materials (Yes/No)				Yes					
				NONNAT_MAT							
								Total:	0.0282 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous Property to non-hazardous for cumulative determinand results below the concentration of: 1000 mg/kg (0.1%) because: HP 3 can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0025%)

WAC results for sample: TP04-0.50

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	1.52	3	-
2	LOI (loss on ignition)	%	2.96	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	1	-
5	Mineral oil (C10 to C40)	mg/kg	5.79	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	100	-
7	pH	pH	8.57	-	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0124	0.5	2
10	barium	mg/kg	0.0744	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0744	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.0687	0.5	10
16	nickel	mg/kg	0.0228	0.4	10
17	lead	mg/kg	0.0063	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0834	4	50
21	chloride	mg/kg	<20	800	15000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	79	1000	20000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	76.6	500	800
26	TDS (total dissolved solids)	mg/kg	1040	4000	60000

Key

User supplied data

Classification of sample: TP06-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP06-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		pH			PH		8.65 pH		8.65 pH	8.65 pH		
2		TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
3		confirm TPH has NOT arisen from diesel or petrol			TPH_CONFIRM		☑					
4		asbestos fibres detected (Yes/No)			ACM_FIBRES		No					
5		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.01 mg/kg		1.749 mg/kg	0.000175 %	✓	
6		arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			1	13.8 mg/kg		12.006 mg/kg	0.0012 %	✓	
7		barium { barium oxide }		215-127-9	1304-28-5		104 mg/kg	1.117	101.021 mg/kg	0.0101 %	✓	
8		cadmium { cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex }	048-001-00-5			1	1.83 mg/kg		1.592 mg/kg	0.000159 %	✓	
9		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25.6 mg/kg	1.126	25.076 mg/kg	0.00251 %	✓	
10		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	30.9 mg/kg		26.883 mg/kg	0.00269 %	✓	
11		mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		<**LOD**
12		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.11 mg/kg	1.5	1.449 mg/kg	0.000145 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		nickel { nickel(II) oxide (nickel monoxide) }											
		028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		37.4	mg/kg	1.273	41.408	mg/kg	0.00414 %	✓	
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }											
		034-002-00-8				1.34	mg/kg	1.405	1.638	mg/kg	0.000164 %	✓	
15		zinc { zinc oxide }											
		030-013-00-7	215-222-5	1314-13-2		123	mg/kg	1.245	133.197	mg/kg	0.0133 %	✓	
16		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }											
			215-160-9	1308-38-9		10.4	mg/kg	1.462	13.224	mg/kg	0.00132 %	✓	
17		chromium in Cr(VI) compounds { chromium(VI) oxide }											
		024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
18		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.045	mg/kg		<0.045	mg/kg	<0.0000045 %		<LOD
19		acenaphthylene											
			205-917-1	208-96-8		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
20		acenaphthene											
			201-469-6	83-32-9		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
21		fluorene											
			201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		phenanthrene											
			201-581-5	85-01-8		<0.075	mg/kg		<0.075	mg/kg	<0.0000075 %		<LOD
23		anthracene											
			204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
24		fluoranthene											
			205-912-4	206-44-0		<0.085	mg/kg		<0.085	mg/kg	<0.0000085 %		<LOD
25		pyrene											
			204-927-3	129-00-0		<0.075	mg/kg		<0.075	mg/kg	<0.0000075 %		<LOD
26		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
27		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.075	mg/kg		<0.075	mg/kg	<0.0000075 %		<LOD
29		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
30		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.075	mg/kg		<0.075	mg/kg	<0.0000075 %		<LOD
31		indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
32		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.115	mg/kg		<0.115	mg/kg	<0.0000115 %		<LOD
33		benzo[ghi]perylene											
			205-883-8	191-24-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
34		polychlorobiphenyls; PCB											
		602-039-00-4	215-648-1	1336-36-3		<0.105	mg/kg		<0.105	mg/kg	<0.0000105 %		<LOD
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane											
		603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
36		benzene											
		601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37		toluene											
		601-021-00-3	203-625-9	108-88-3		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
38		ethylbenzene											
		601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
40		< 2% non-natural materials (Yes/No)				Yes					
				NONNAT_MAT							
								Total:	0.0359 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP06-0.50

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	1.15	3	-
2	LOI (loss on ignition)	%	4.23	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	100	-
7	pH	pH	8.65	-	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0097	0.5	2
10	barium	mg/kg	0.0758	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0433	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.0815	0.5	10
16	nickel	mg/kg	0.0144	0.4	10
17	lead	mg/kg	0.0032	0.5	10
18	antimony	mg/kg	0.0143	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0283	4	50
21	chloride	mg/kg	<20	800	15000
22	fluoride	mg/kg	5.1	10	150
23	sulphate	mg/kg	76	1000	20000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	48.4	500	800
26	TDS (total dissolved solids)	mg/kg	969	4000	60000

Key

User supplied data

Appendix A: Classifier defined and non EU CLP determinands

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

confirm TPH has NOT arisen from diesel or petrol (CAS Number: TPH_CONFIRM)

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

asbestos fibres detected (Yes/No) (CAS Number: ACM_FIBRES)

Description/Comments: not classified, information only
Data source: N/A
Data source date: 15 Jan 2020
Hazard Statements: None.

arsenic compounds, with the exception of those specified elsewhere in this Annex

EU CLP index number: 033-002-00-5
Description/Comments: Worst Case: IARC considers arsenic compounds Group 1; Carcinogenic to humans
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 1A; H350 hazard statement sourced from:: IARC Group 1 (23, Sup 7, 100C) 2012

barium oxide (EC Number: 215-127-9, CAS Number: 1304-28-5)

Description/Comments: Data from ECHA's C&L Inventory Database, Sigma Aldrich SDS dated 6/2/20
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/88825
Data source date: 02 Apr 2020
Hazard Statements: Acute Tox. 3; H301 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 1; H332

cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex

EU CLP index number: 048-001-00-5
Description/Comments: Worst Case: IARC considers cadmium compounds Group 1; Carcinogenic to humans
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from:: IARC Group 1 (23, Sup 7, 100C) 2012

lead compounds with the exception of those specified elsewhere in this Annex (worst case)

EU CLP index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 1A; H350 hazard statement sourced from:: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

- **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

- **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

- **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

EU CLP index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from:: IARC Group 1 (23, Sup 7, 100C) 2012

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

EU CLP index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2; H351 hazard statement sourced from:: IARC Group 2B (77) 2000

coronene (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source: http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2; H371

< 2% non-natural materials (Yes/No) (CAS Number: NONNAT_MAT)

Description/Comments: not classified, information only

anthropogenic or man-made substances such as rubble, concrete, bricks, metal and bitumen that are non-natural to the environment from which the material was extracted
Data source: N/A
Data source date: 15 Jan 2020
Hazard Statements: None.

Appendix B: Rationale for selection of metal species

antimony {antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex}

Worst Case Scenario.

arsenic {arsenic compounds, with the exception of those specified elsewhere in this Annex}

Chromium VI at limits of detection. Arsenic compounds used as the next most hazardous species. No chromate present.

barium {barium oxide}

Chromium VI at limits of detection. Barium oxide used as the next most hazardous species. No chromate present.

cadmium {cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex}

Chromium VII at limits of detection. Cadmium compounds used as the next most hazardous species. No chromate present.

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Chromium VI at limits of detection. Lead compounds used as the next most hazardous species. No chromate present.

mercury {mercury difulminate}

Worst case CLP species based on hazard statements/molecular weight

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel(II) oxide (nickel monoxide)}

Chromium VI at limits of detection. Nickel oxide used as the next most hazardous species. No chromate present.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil.

zinc {zinc oxide}

Chromium VI at limits of detection. Zinc oxide used as the next most hazardous species. No chromate present.

chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass

chromium in Cr(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments.

Appendix C: Version

HazWasteOnline Classification Engine: EU WM3 1st Edition v1.1.NI using the EU LoW
HazWasteOnline Classification Engine Version: 2026.26.6955.12551 (26 Jan 2026)
HazWasteOnline Database: 2026.27.6959.12557 (27 Jan 2026)

This classification utilises the following guidance and legislation:
WM3 v1.1.NI - Waste Classification - 1st Edition v1.1.NI - Jan 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
17th ATP - Regulation (EU) 2021/849 of 11 March 2021
18th ATP - Regulation (EU) 2022/692 of 16 February 2022
POPs Amendment 2022 - Regulation (EU) 2022/2400 of 23 November 2022
19th ATP - Regulation (EU) 2023/1434 of 25 April 2023
20th ATP - Regulation (EU) 2023/1435 of 2 May 2023
21st ATP - Regulation (EU) 2024/197 of 19 October 2023
22nd ATP - Regulation (EU) 2024/2564 of 19th June 2024
23rd ATP - Regulation (EU) 2025/1222 of 2nd April 2025

Appendix 9

Soils Recovery Facilities Report

Soil Recovery Sites Screening Report

X1H9B-5D8JO-RUA7Q

Job name

6597

Description/Comments

Client: Dublin City Council
Engineer: Hayes Higgins Partnership

Project

Priorswood

Site

Darndale, Dublin 17

Classified by

Name:
Stephen Letch
Date:
30 Jan 2026 13:04 GMT
Telephone:
00353 86817 9449

Company:
Site Investigations Ltd
The Grange
12th Lock Road
Lucan
K78 F598

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	09 Oct 2019
Most recent 3 year Refresher	02 Dec 2025

Next 3 year Refresher due by Dec 2028

Purpose of classification

2 - Material Characterisation

Address of the waste

MARIGOLD AVENUE (NC), Primrose Grove, Darndale, Priorswood C Ward 1986, Dublin, County Dublin, Leinster, Ireland

Post Code D17 Y738

Description of industry/producer giving rise to the waste

Site Investigation

Description of the specific process, sub-process and/or activity that created the waste

Soils recovered for environmental testing

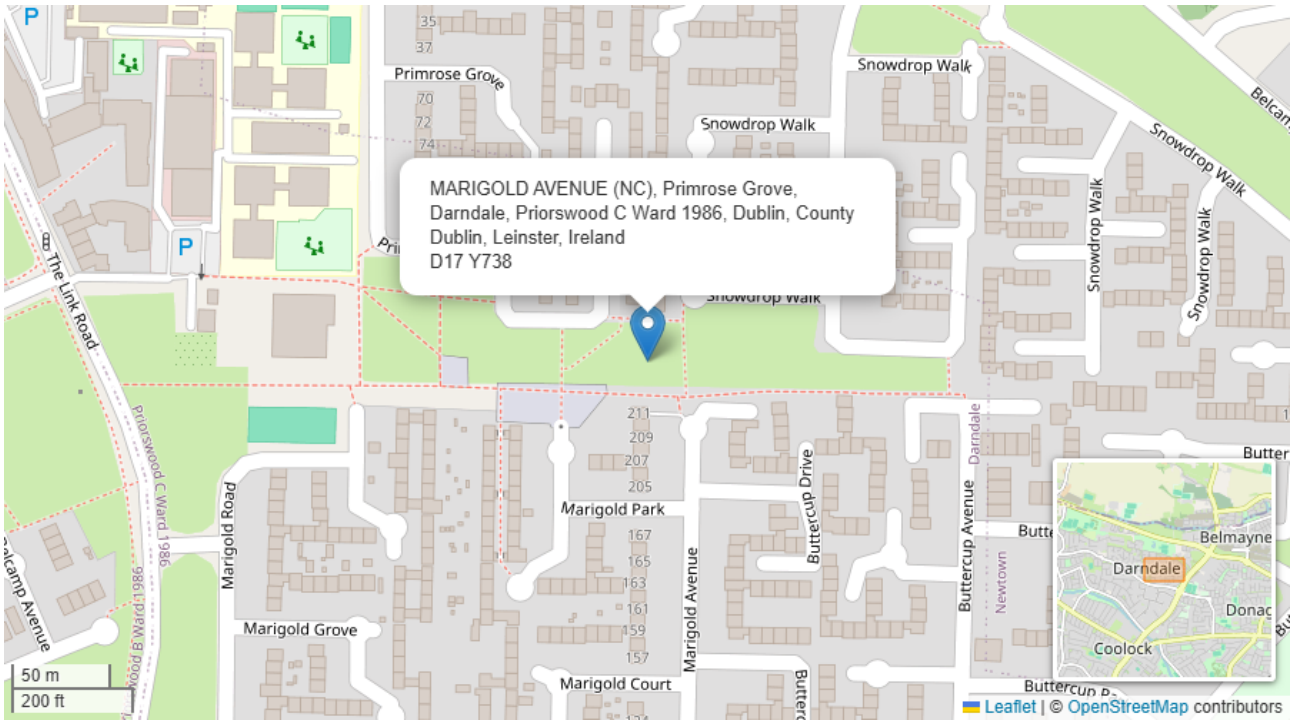
Description of the waste

Natural soils

Screening Summary

#	Sample name	Depth [m]	Domain 1	Domain 2	Domain 3	Domain 4	Domain 5	Domain 6	Domain 7	Page
1	TP01-0.50	0.50	Fail	Fail	Fail	Fail	Fail	Fail	Fail	3
2	TP02-0.50	0.50	Fail	Fail	Fail	Fail	Fail	Fail	Fail	8
3	TP03-0.50	0.50	Pass	Pass	Pass	Fail	Pass	Pass	Fail	13
4	TP04-0.50	0.50	Fail	Fail	Fail	Fail	Fail	Fail	Fail	19
5	TP06-0.50	0.50	Fail	Fail	Fail	Fail	Fail	Fail	Fail	24

Waste Location



Soil Recovery Sites Screening results for sample: TP01-0.50

⚠ Sample "TP01-0.50" fails the "Domain 1" limits

#	Determinand		User entered data	Domain 1 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	No	Yes	n/a
3	arsenic	mg/kg	11	15.6	mg/kg
4	cadmium	mg/kg	1.52	1.5	mg/kg
5	chromium in Cr(III) compounds	mg/kg	8.2	51.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	53	51.2	mg/kg
8	mercury	mg/kg	<0.1	0.254	mg/kg
9	nickel	mg/kg	30.7	47.8	mg/kg
10	lead	mg/kg	39.6	48.3	mg/kg
11	zinc	mg/kg	117	137	mg/kg
12	TOC (total organic carbon)	%	1.32	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	14.2	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP01-0.50" fails the "Domain 2" limits

#	Determinand		User entered data	Domain 2 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	No	Yes	n/a
3	arsenic	mg/kg	11	24.9	mg/kg
4	cadmium	mg/kg	1.52	3.28	mg/kg
5	chromium in Cr(III) compounds	mg/kg	8.2	50.3	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	53	63.5	mg/kg
8	mercury	mg/kg	<0.1	0.36	mg/kg
9	nickel	mg/kg	30.7	61.9	mg/kg
10	lead	mg/kg	39.6	86.1	mg/kg
11	zinc	mg/kg	117	197	mg/kg
12	TOC (total organic carbon)	%	1.32	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	14.2	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP01-0.50" fails the "Domain 3" limits

#	Determinand		User entered data	Domain 3 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	No	Yes	n/a
3	arsenic	mg/kg	11	38.1	mg/kg
4	cadmium	mg/kg	1.52	1.6	mg/kg
5	chromium in Cr(III) compounds	mg/kg	8.2	47.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	53	56.9	mg/kg
8	mercury	mg/kg	<0.1	0.457	mg/kg
9	nickel	mg/kg	30.7	54.4	mg/kg
10	lead	mg/kg	39.6	81.3	mg/kg
11	zinc	mg/kg	117	237	mg/kg
12	TOC (total organic carbon)	%	1.32	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	14.2	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP01-0.50" fails the "Domain 4" limits

#	Determinand		User entered data	Domain 4 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	No	Yes	n/a
3	arsenic	mg/kg	11	32.3	mg/kg
4	cadmium	mg/kg	1.52	0.97	mg/kg
5	chromium in Cr(III) compounds	mg/kg	8.2	51.7	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	53	80.4	mg/kg
8	mercury	mg/kg	<0.1	0.285	mg/kg
9	nickel	mg/kg	30.7	50.3	mg/kg
10	lead	mg/kg	39.6	91.4	mg/kg
11	zinc	mg/kg	117	155	mg/kg
12	TOC (total organic carbon)	%	1.32	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	14.2	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

User supplied data

Value above the screening limit/trigger level

⚠ Sample "TP01-0.50" fails the "Domain 5" limits

#	Determinand		User entered data	Domain 5 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	No	Yes	n/a
3	arsenic	mg/kg	11	41.5	mg/kg
4	cadmium	mg/kg	1.52	1.42	mg/kg
5	chromium in Cr(III) compounds	mg/kg	8.2	73.2	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	53	77.6	mg/kg
8	mercury	mg/kg	<0.1	0.302	mg/kg
9	nickel	mg/kg	30.7	65.7	mg/kg
10	lead	mg/kg	39.6	109	mg/kg
11	zinc	mg/kg	117	224	mg/kg
12	TOC (total organic carbon)	%	1.32	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	14.2	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP01-0.50" fails the "Domain 6" limits

#	Determinand		User entered data	Domain 6 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	No	Yes	n/a
3	arsenic	mg/kg	11	85.8	mg/kg
4	cadmium	mg/kg	1.52	2.38	mg/kg
5	chromium in Cr(III) compounds	mg/kg	8.2	54	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	53	40	mg/kg
8	mercury	mg/kg	<0.1	0.527	mg/kg
9	nickel	mg/kg	30.7	28.2	mg/kg
10	lead	mg/kg	39.6	108	mg/kg
11	zinc	mg/kg	117	168	mg/kg
12	TOC (total organic carbon)	%	1.32	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	14.2	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP01-0.50" fails the "Domain 7" limits

#	Determinand		User entered data	Domain 7 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	No	Yes	n/a
3	arsenic	mg/kg	11	30.9	mg/kg
4	cadmium	mg/kg	1.52	0.542	mg/kg
5	chromium in Cr(III) compounds	mg/kg	8.2	57.6	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	53	83.1	mg/kg
8	mercury	mg/kg	<0.1	0.262	mg/kg
9	nickel	mg/kg	30.7	35.7	mg/kg
10	lead	mg/kg	39.6	61.1	mg/kg
11	zinc	mg/kg	117	122	mg/kg
12	TOC (total organic carbon)	%	1.32	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	14.2	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

Soil Recovery Sites Screening results for sample: TP02-0.50

⚠ Sample "TP02-0.50" fails the "Domain 1" limits

#	Determinand		User entered data	Domain 1 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	23.9	15.6	mg/kg
4	cadmium	mg/kg	2.05	1.5	mg/kg
5	chromium in Cr(III) compounds	mg/kg	9.84	51.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	37.7	51.2	mg/kg
8	mercury	mg/kg	<0.1	0.254	mg/kg
9	nickel	mg/kg	37.6	47.8	mg/kg
10	lead	mg/kg	65.2	48.3	mg/kg
11	zinc	mg/kg	154	137	mg/kg
12	TOC (total organic carbon)	%	2.25	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP02-0.50" fails the "Domain 2" limits

#	Determinand		User entered data	Domain 2 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	23.9	24.9	mg/kg
4	cadmium	mg/kg	2.05	3.28	mg/kg
5	chromium in Cr(III) compounds	mg/kg	9.84	50.3	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	37.7	63.5	mg/kg
8	mercury	mg/kg	<0.1	0.36	mg/kg
9	nickel	mg/kg	37.6	61.9	mg/kg
10	lead	mg/kg	65.2	86.1	mg/kg
11	zinc	mg/kg	154	197	mg/kg
12	TOC (total organic carbon)	%	2.25	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP02-0.50" fails the "Domain 3" limits

#	Determinand		User entered data	Domain 3 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	23.9	38.1	mg/kg
4	cadmium	mg/kg	2.05	1.6	mg/kg
5	chromium in Cr(III) compounds	mg/kg	9.84	47.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	37.7	56.9	mg/kg
8	mercury	mg/kg	<0.1	0.457	mg/kg
9	nickel	mg/kg	37.6	54.4	mg/kg
10	lead	mg/kg	65.2	81.3	mg/kg
11	zinc	mg/kg	154	237	mg/kg
12	TOC (total organic carbon)	%	2.25	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP02-0.50" fails the "Domain 4" limits

#	Determinand		User entered data	Domain 4 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	23.9	32.3	mg/kg
4	cadmium	mg/kg	2.05	0.97	mg/kg
5	chromium in Cr(III) compounds	mg/kg	9.84	51.7	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	37.7	80.4	mg/kg
8	mercury	mg/kg	<0.1	0.285	mg/kg
9	nickel	mg/kg	37.6	50.3	mg/kg
10	lead	mg/kg	65.2	91.4	mg/kg
11	zinc	mg/kg	154	155	mg/kg
12	TOC (total organic carbon)	%	2.25	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP02-0.50" fails the "Domain 5" limits

#	Determinand		User entered data	Domain 5 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	23.9	41.5	mg/kg
4	cadmium	mg/kg	2.05	1.42	mg/kg
5	chromium in Cr(III) compounds	mg/kg	9.84	73.2	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	37.7	77.6	mg/kg
8	mercury	mg/kg	<0.1	0.302	mg/kg
9	nickel	mg/kg	37.6	65.7	mg/kg
10	lead	mg/kg	65.2	109	mg/kg
11	zinc	mg/kg	154	224	mg/kg
12	TOC (total organic carbon)	%	2.25	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP02-0.50" fails the "Domain 6" limits

#	Determinand		User entered data	Domain 6 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	23.9	85.8	mg/kg
4	cadmium	mg/kg	2.05	2.38	mg/kg
5	chromium in Cr(III) compounds	mg/kg	9.84	54	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	37.7	40	mg/kg
8	mercury	mg/kg	<0.1	0.527	mg/kg
9	nickel	mg/kg	37.6	28.2	mg/kg
10	lead	mg/kg	65.2	108	mg/kg
11	zinc	mg/kg	154	168	mg/kg
12	TOC (total organic carbon)	%	2.25	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

User supplied data

Value above the screening limit/trigger level

⚠ Sample "TP02-0.50" fails the "Domain 7" limits

#	Determinand		User entered data	Domain 7 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	23.9	30.9	mg/kg
4	cadmium	mg/kg	2.05	0.542	mg/kg
5	chromium in Cr(III) compounds	mg/kg	9.84	57.6	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	37.7	83.1	mg/kg
8	mercury	mg/kg	<0.1	0.262	mg/kg
9	nickel	mg/kg	37.6	35.7	mg/kg
10	lead	mg/kg	65.2	61.1	mg/kg
11	zinc	mg/kg	154	122	mg/kg
12	TOC (total organic carbon)	%	2.25	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

Soil Recovery Sites Screening results for sample: TP03-0.50

Sample "TP03-0.50" passes the "Domain 1" limits

#	Determinand		User entered data	Domain 1 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	15.6	15.6	mg/kg
4	cadmium	mg/kg	1.58	1.5	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.6	51.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	26.4	51.2	mg/kg
8	mercury	mg/kg	<0.1	0.254	mg/kg
9	nickel	mg/kg	36.2	47.8	mg/kg
10	lead	mg/kg	34.3	48.3	mg/kg
11	zinc	mg/kg	96.3	137	mg/kg
12	TOC (total organic carbon)	%	0.932	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Sample "TP03-0.50" passes the "Domain 2" limits

#	Determinand		User entered data	Domain 2 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	15.6	24.9	mg/kg
4	cadmium	mg/kg	1.58	3.28	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.6	50.3	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	26.4	63.5	mg/kg
8	mercury	mg/kg	<0.1	0.36	mg/kg
9	nickel	mg/kg	36.2	61.9	mg/kg
10	lead	mg/kg	34.3	86.1	mg/kg
11	zinc	mg/kg	96.3	197	mg/kg
12	TOC (total organic carbon)	%	0.932	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	"For metals, the analytical results for up to three parameters [...] may exceed the respective maximum concentration and/or soil trigger level. However, no individual result should exceed 1.5 times the respective maximum concentration and/or soil trigger level."

Sample "TP03-0.50" passes the "Domain 3" limits

#	Determinand		User entered data	Domain 3 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	15.6	38.1	mg/kg
4	cadmium	mg/kg	1.58	1.6	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.6	47.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	26.4	56.9	mg/kg
8	mercury	mg/kg	<0.1	0.457	mg/kg
9	nickel	mg/kg	36.2	54.4	mg/kg
10	lead	mg/kg	34.3	81.3	mg/kg
11	zinc	mg/kg	96.3	237	mg/kg
12	TOC (total organic carbon)	%	0.932	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Sample "TP03-0.50" fails the "Domain 4" limits

#	Determinand		User entered data	Domain 4 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	15.6	32.3	mg/kg
4	cadmium	mg/kg	1.58	0.97	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.6	51.7	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	26.4	80.4	mg/kg
8	mercury	mg/kg	<0.1	0.285	mg/kg
9	nickel	mg/kg	36.2	50.3	mg/kg
10	lead	mg/kg	34.3	91.4	mg/kg
11	zinc	mg/kg	96.3	155	mg/kg
12	TOC (total organic carbon)	%	0.932	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

Sample "TP03-0.50" passes the "Domain 5" limits

#	Determinand		User entered data	Domain 5 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	15.6	41.5	mg/kg
4	cadmium	mg/kg	1.58	1.42	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.6	73.2	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	26.4	77.6	mg/kg
8	mercury	mg/kg	<0.1	0.302	mg/kg
9	nickel	mg/kg	36.2	65.7	mg/kg
10	lead	mg/kg	34.3	109	mg/kg
11	zinc	mg/kg	96.3	224	mg/kg
12	TOC (total organic carbon)	%	0.932	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Sample "TP03-0.50" passes the "Domain 6" limits

#	Determinand		User entered data	Domain 6 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	15.6	85.8	mg/kg
4	cadmium	mg/kg	1.58	2.38	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.6	54	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	26.4	40	mg/kg
8	mercury	mg/kg	<0.1	0.527	mg/kg
9	nickel	mg/kg	36.2	28.2	mg/kg
10	lead	mg/kg	34.3	108	mg/kg
11	zinc	mg/kg	96.3	168	mg/kg
12	TOC (total organic carbon)	%	0.932	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	"For metals, the analytical results for up to three parameters [...] may exceed the respective maximum concentration and/or soil trigger level. However, no individual result should exceed 1.5 times the respective maximum concentration and/or soil trigger level."

⚠ Sample "TP03-0.50" fails the "Domain 7" limits

#	Determinand		User entered data	Domain 7 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	15.6	30.9	mg/kg
4	cadmium	mg/kg	1.58	0.542	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.6	57.6	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	26.4	83.1	mg/kg
8	mercury	mg/kg	<0.1	0.262	mg/kg
9	nickel	mg/kg	36.2	35.7	mg/kg
10	lead	mg/kg	34.3	61.1	mg/kg
11	zinc	mg/kg	96.3	122	mg/kg
12	TOC (total organic carbon)	%	0.932	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.0105	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.042	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

Soil Recovery Sites Screening results for sample: TP04-0.50

⚠ Sample "TP04-0.50" fails the "Domain 1" limits

#	Determinand		User entered data	Domain 1 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	11.8	15.6	mg/kg
4	cadmium	mg/kg	0.864	1.5	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.74	51.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.2	51.2	mg/kg
8	mercury	mg/kg	<0.1	0.254	mg/kg
9	nickel	mg/kg	18.8	47.8	mg/kg
10	lead	mg/kg	33.8	48.3	mg/kg
11	zinc	mg/kg	77.5	137	mg/kg
12	TOC (total organic carbon)	%	1.52	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	5.79	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP04-0.50" fails the "Domain 2" limits

#	Determinand		User entered data	Domain 2 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	11.8	24.9	mg/kg
4	cadmium	mg/kg	0.864	3.28	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.74	50.3	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.2	63.5	mg/kg
8	mercury	mg/kg	<0.1	0.36	mg/kg
9	nickel	mg/kg	18.8	61.9	mg/kg
10	lead	mg/kg	33.8	86.1	mg/kg
11	zinc	mg/kg	77.5	197	mg/kg
12	TOC (total organic carbon)	%	1.52	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	5.79	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP04-0.50" fails the "Domain 3" limits

#	Determinand		User entered data	Domain 3 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	11.8	38.1	mg/kg
4	cadmium	mg/kg	0.864	1.6	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.74	47.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.2	56.9	mg/kg
8	mercury	mg/kg	<0.1	0.457	mg/kg
9	nickel	mg/kg	18.8	54.4	mg/kg
10	lead	mg/kg	33.8	81.3	mg/kg
11	zinc	mg/kg	77.5	237	mg/kg
12	TOC (total organic carbon)	%	1.52	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	5.79	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP04-0.50" fails the "Domain 4" limits

#	Determinand		User entered data	Domain 4 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	11.8	32.3	mg/kg
4	cadmium	mg/kg	0.864	0.97	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.74	51.7	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.2	80.4	mg/kg
8	mercury	mg/kg	<0.1	0.285	mg/kg
9	nickel	mg/kg	18.8	50.3	mg/kg
10	lead	mg/kg	33.8	91.4	mg/kg
11	zinc	mg/kg	77.5	155	mg/kg
12	TOC (total organic carbon)	%	1.52	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	5.79	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

User supplied data

Value above the screening limit/trigger level

⚠ Sample "TP04-0.50" fails the "Domain 5" limits

#	Determinand		User entered data	Domain 5 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	11.8	41.5	mg/kg
4	cadmium	mg/kg	0.864	1.42	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.74	73.2	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.2	77.6	mg/kg
8	mercury	mg/kg	<0.1	0.302	mg/kg
9	nickel	mg/kg	18.8	65.7	mg/kg
10	lead	mg/kg	33.8	109	mg/kg
11	zinc	mg/kg	77.5	224	mg/kg
12	TOC (total organic carbon)	%	1.52	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	5.79	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP04-0.50" fails the "Domain 6" limits

#	Determinand		User entered data	Domain 6 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	11.8	85.8	mg/kg
4	cadmium	mg/kg	0.864	2.38	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.74	54	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.2	40	mg/kg
8	mercury	mg/kg	<0.1	0.527	mg/kg
9	nickel	mg/kg	18.8	28.2	mg/kg
10	lead	mg/kg	33.8	108	mg/kg
11	zinc	mg/kg	77.5	168	mg/kg
12	TOC (total organic carbon)	%	1.52	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	5.79	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP04-0.50" fails the "Domain 7" limits

#	Determinand		User entered data	Domain 7 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	11.8	30.9	mg/kg
4	cadmium	mg/kg	0.864	0.542	mg/kg
5	chromium in Cr(III) compounds	mg/kg	5.74	57.6	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.2	83.1	mg/kg
8	mercury	mg/kg	<0.1	0.262	mg/kg
9	nickel	mg/kg	18.8	35.7	mg/kg
10	lead	mg/kg	33.8	61.1	mg/kg
11	zinc	mg/kg	77.5	122	mg/kg
12	TOC (total organic carbon)	%	1.52	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.11	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	5.79	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.49	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

Soil Recovery Sites Screening results for sample: TP06-0.50

⚠ Sample "TP06-0.50" fails the "Domain 1" limits

#	Determinand		User entered data	Domain 1 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	13.8	15.6	mg/kg
4	cadmium	mg/kg	1.83	1.5	mg/kg
5	chromium in Cr(III) compounds	mg/kg	10.4	51.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.6	51.2	mg/kg
8	mercury	mg/kg	<0.1	0.254	mg/kg
9	nickel	mg/kg	37.4	47.8	mg/kg
10	lead	mg/kg	30.9	48.3	mg/kg
11	zinc	mg/kg	123	137	mg/kg
12	TOC (total organic carbon)	%	1.15	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP06-0.50" fails the "Domain 2" limits

#	Determinand		User entered data	Domain 2 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	13.8	24.9	mg/kg
4	cadmium	mg/kg	1.83	3.28	mg/kg
5	chromium in Cr(III) compounds	mg/kg	10.4	50.3	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.6	63.5	mg/kg
8	mercury	mg/kg	<0.1	0.36	mg/kg
9	nickel	mg/kg	37.4	61.9	mg/kg
10	lead	mg/kg	30.9	86.1	mg/kg
11	zinc	mg/kg	123	197	mg/kg
12	TOC (total organic carbon)	%	1.15	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP06-0.50" fails the "Domain 3" limits

#	Determinand		User entered data	Domain 3 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	13.8	38.1	mg/kg
4	cadmium	mg/kg	1.83	1.6	mg/kg
5	chromium in Cr(III) compounds	mg/kg	10.4	47.5	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.6	56.9	mg/kg
8	mercury	mg/kg	<0.1	0.457	mg/kg
9	nickel	mg/kg	37.4	54.4	mg/kg
10	lead	mg/kg	30.9	81.3	mg/kg
11	zinc	mg/kg	123	237	mg/kg
12	TOC (total organic carbon)	%	1.15	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP06-0.50" fails the "Domain 4" limits

#	Determinand		User entered data	Domain 4 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	13.8	32.3	mg/kg
4	cadmium	mg/kg	1.83	0.97	mg/kg
5	chromium in Cr(III) compounds	mg/kg	10.4	51.7	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.6	80.4	mg/kg
8	mercury	mg/kg	<0.1	0.285	mg/kg
9	nickel	mg/kg	37.4	50.3	mg/kg
10	lead	mg/kg	30.9	91.4	mg/kg
11	zinc	mg/kg	123	155	mg/kg
12	TOC (total organic carbon)	%	1.15	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

⚠ Sample "TP06-0.50" fails the "Domain 5" limits

#	Determinand		User entered data	Domain 5 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	13.8	41.5	mg/kg
4	cadmium	mg/kg	1.83	1.42	mg/kg
5	chromium in Cr(III) compounds	mg/kg	10.4	73.2	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.6	77.6	mg/kg
8	mercury	mg/kg	<0.1	0.302	mg/kg
9	nickel	mg/kg	37.4	65.7	mg/kg
10	lead	mg/kg	30.9	109	mg/kg
11	zinc	mg/kg	123	224	mg/kg
12	TOC (total organic carbon)	%	1.15	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

⚠ Sample "TP06-0.50" fails the "Domain 6" limits

#	Determinand		User entered data	Domain 6 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	13.8	85.8	mg/kg
4	cadmium	mg/kg	1.83	2.38	mg/kg
5	chromium in Cr(III) compounds	mg/kg	10.4	54	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.6	40	mg/kg
8	mercury	mg/kg	<0.1	0.527	mg/kg
9	nickel	mg/kg	37.4	28.2	mg/kg
10	lead	mg/kg	30.9	108	mg/kg
11	zinc	mg/kg	123	168	mg/kg
12	TOC (total organic carbon)	%	1.15	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

User supplied data

Value above the screening limit/trigger level

⚠ Sample "TP06-0.50" fails the "Domain 7" limits

#	Determinand		User entered data	Domain 7 Limit	
1	Uncontaminated soil and stone (LoW 17 05 04)	n/a	Yes	Yes	n/a
2	Inert waste	n/a	Yes	Yes	n/a
3	arsenic	mg/kg	13.8	30.9	mg/kg
4	cadmium	mg/kg	1.83	0.542	mg/kg
5	chromium in Cr(III) compounds	mg/kg	10.4	57.6	mg/kg
6	chromium in Cr(VI) compounds	mg/kg	<0.6		
7	copper	mg/kg	25.6	83.1	mg/kg
8	mercury	mg/kg	<0.1	0.262	mg/kg
9	nickel	mg/kg	37.4	35.7	mg/kg
10	lead	mg/kg	30.9	61.1	mg/kg
11	zinc	mg/kg	123	122	mg/kg
12	TOC (total organic carbon)	%	1.15	3	%
13	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.115	0.05	mg/kg
14	Mineral oil (C10 to C40)	mg/kg	<5	50	mg/kg
15	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1	1	mg/kg
16	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.105	0.05	mg/kg
17	asbestos fibres detected (Yes/No)	n/a	No	No	n/a
18	< 2% non-natural materials (Yes/No)	n/a	Yes	Yes	n/a

Key

	User supplied data
	Value above the screening limit/trigger level

Screening utilises the following:

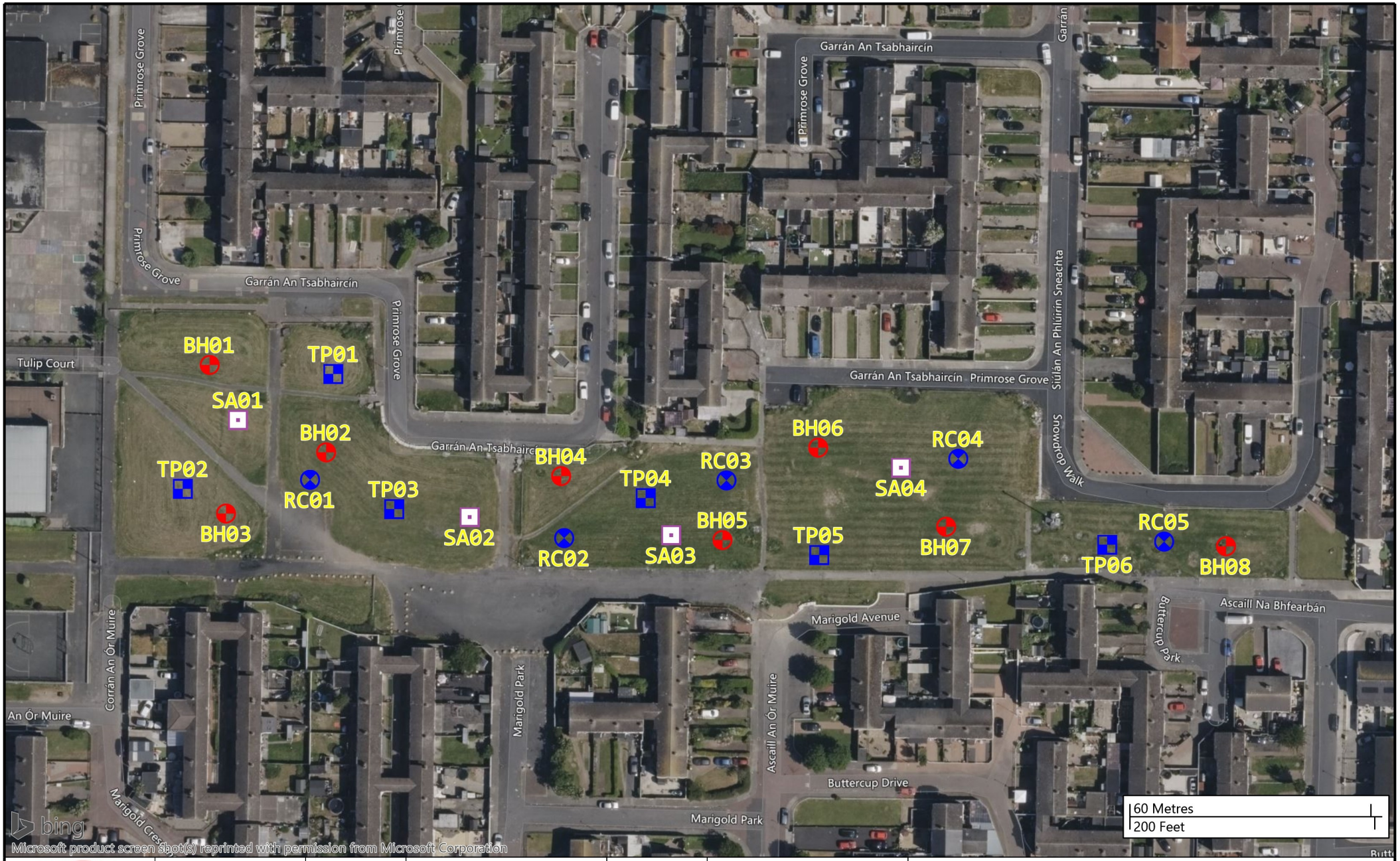
EPA Ireland: Guidance on waste acceptance criteria at authorised soil recovery facilities - January 2020

Appendix 10

Survey Data

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
Cable Percussive Boreholes					
BH01	720212.623	740496.244	35.17	320287.875	240471.375
BH02	720242.354	740475.141	35.01	320317.612	240450.268
BH03	720217.787	740459.223	34.76	320293.040	240434.346
BH04	720301.387	740470.711	35.35	320376.658	240445.837
BH05	720342.309	740455.769	34.73	320417.589	240430.892
BH06	720365.658	740479.453	34.54	320440.942	240454.581
BH07	720398.191	740460.507	34.75	320473.483	240435.632
BH08	720468.322	740457.391	34.45	320543.629	240432.515
Rotary Coreholes					
RC01	720238.464	740468.200	34.88	320313.721	240443.325
RC02	720302.518	740455.240	35.03	320377.789	240430.363
RC03	720342.848	740470.675	35.01	320418.128	240445.801
RC04	720400.690	740477.554	34.67	320475.982	240452.682
RC05	720452.929	740458.170	34.62	320528.232	240433.294
Trial Pits					
TP01	720243.710	740494.785	34.96	320318.968	240469.916
TP02	720206.753	740465.119	35.05	320282.004	240440.243
TP03	720259.729	740461.410	34.81	320334.991	240436.534
TP04	720322.744	740465.762	35.56	320398.019	240440.887
TP05	720366.480	740452.635	34.45	320441.765	240427.758
TP06	720438.684	740457.047	34.63	320513.984	240432.171
Soakaway Tests					
SA01	720220.148	740482.655	34.87	320295.401	240457.783
SA02	720278.789	740459.896	34.76	320354.055	240435.020
SA03	720329.351	740456.640	34.82	320404.628	240431.763
SA04	720386.569	740474.960	34.87	320461.858	240450.088



Site Investigations Ltd The Grange 12th Lock Road Lucan Co. Dublin T: 01 6108768 e: info@siteinvestigations.ie	Contract No:	6597	Client:	Dublin City Centre	Legend Key Locations By Type - CP Locations By Type - IP Locations By Type - RC
	Contract Name:	Priorswood	Engineer:	Hayes Higgins Partnership	
	Location:	Darndale, Dublin 17	Scale:	1:1250	
	Title:	Site Plan	Drawn By:	SL	